SCM Division
Radio Park, Henley Road
Auckland Park 2092
Johannesburg
Private Bag X1
Auckland Park 2006

REQUEST FOR QUOTATION (RFQ):

RFQ	**RFQ/LOG/2026/10251300/14**
RFQ ISSUE `DATE	**08 MAY 2026**
RFQ DESCRIPTION	**APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY, INSTALATION AND COMMISSIONING OF HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEM FOR DUAL UNINTERRUPTIBLE POWER SUPPLY (UPS) AS ONCE OFF PROJECT.**
COMPULSORY BRIEFING SESSION / SITE INSPECTION	**15 MAY 2026 @10:00** **SABC AUCKLAND PARK, RADIO PARK BUILDING**
CLOSING DATE & TIME	**29 MAY 2026 AT 12H00PM**

Submissions must be electronically emailed to RFQSubmissions@sabc.co.za on or before the closing date of this RFQ.

The Tenderer shall have a CIDB Grading of minimum 3ME. The Tenderer shall provide a valid certificate at the time of closing and at the time of award.

For queries, please contact **Porcia Ntozini via email:** Tenderqueries@sabc.co.za
The SABC requests your quotation on the services listed above. Please furnish us with all the information as requested and return your quotation on the date and time stipulated above. Late and incomplete submissions will invalidate the quote submitted.

SUPPLIER NAME: _____

POSTAL ADDRESS: _____

TELEPHONE NO: _____

FAX NO. : _____

E MAIL ADDRESS: _____

CONTACT PERSON: _____

CELL NO: _____

SIGNATURE OF BIDDER: _____

NOTES ON QUOTATIONS AND PROPOSALS SUBMISSION

1. All electronic submissions must be submitted in a **PDF** format that is protected from any modifications, deletions, or additions.
2. Financial/pricing information must be presented in a **separate** attachment from the Technical / Functional Response information.
3. The onus is on the Bidder to further ensure that all mandatory and required documents are included in the electronic submission.
4. All submissions should be prominently marked with the following details in the email subject line:

   ➢ **RFQ Number and bidders' name.**

5. Bidders are advised to email electronic submissions at least thirty minutes before the bid closing time to cater for any possible delay in transmission or receipt of the bid. The onus is on bidder to ensure that the bid is submitted on time via email
6. Tender submission emails received after submission date and time will be considered late bid submissions and will not be accepted for consideration by SABC.
7. SABC will not be responsible for any failure or delay in the email transmission or receipt of the email including but not limited to:
   - receipt of incomplete bid
   - file size
   - delay in transmission receipt of the bid
   - failure of the Bidder to properly identify the bid
   - illegibility of the bid; or
   - Security of the bid data.

NB: THE BIDDER SHOULD ENSURE THAT LINKS FOR WETRANSFER AND GOOGLE DROP BOX EXPIRE AFTER 30 DAYS OF THEIR SUBMISSIONS INSTEAD OF SEVEN DAYS

NOTES ON SITE INSPECTION

1. The briefing session / site inspection meeting will be held at on the date and time of which has been provided on the SABC Website.
2. Bidders are requested to advice of their interest to participate in the site inspection by sending an email on or before date (11May 2026) to email address ntozinilp@sabc.co.za so as to be invited.

1. FIRST PHASE – MANDATORY DOCUMENTS

All bid respondents must submit mandatory documents that comply with all mandatory requirements. Bids that do not fully comply with the mandatory requirements will be disqualified and will not be considered for further evaluation.

	MANDATORY REQUIREMENT	COMPLY/ NOT COMPLY
1.1	Provide CIDB grading Active registration and valid minimum grading with the Mechanical (CIDB) of 3ME. "The Tenderer shall provide a valid and active certificate at the time of closing and at the time of award".	
1.2	Service Provider to provide an active Company's proof of registration with SARACCA	

BIDDERS MUST PROVIDE A VALID AND ACTIVE CERTIFICATE AT THE TIME OF THE CLOSING OF THE BID. NON-SUBMISSION OF THE MANDATORY DOCUMENTS WILL RESULT IN AUTOMATIC DISQUALIFICATION.

2. REQUIRED DOCUMENTS

a. Submit proof Central Supplier Database (CSD) registration
b. Proof of Valid TV License Statement for the Company; all active Directors and Shareholder must have valid TV Licenses.
c. (Verification will also be done by the SABC internally).
d. Valid Tax Clearance Certificate or SARS "Pin" to validate supplier's tax matters
e. Original or Certified copy of Valid BBBEE Certificate (from SANAS accredited Verification Agency)
f. Certified copy of Company Registration Document that reflect Company Name, Registration number, date of registration and active Directors or Members.
g. Certified copy of Shareholders' certificates.
h. Certified copy of ID documents of the Directors or Members.

NB: NO CONTRACT WILL BE AWARDED TO ANY BIDDERS WHO'S TAX MATTERS ARE NOT IN ORDER.

NO CONTRACT WILL BE AWARDED TO ANY BIDDERS WHO'S TV LICENCE STATEMENT ACCOUNT IS NOT VALID.

NO CONTRACT WILL BE AWARDED TO ANY BIDDER WHO IS NOT REGISTRED ON THE CSD

3. BACKGROUND

The primary objective of this project is to construct a new plant room within the Radio Park facility. The project is currently in Stage 5 of implementation, which had a partial installation of the HVAC works executed by the previous Service Provider and SABC now requires the services of experienced mechanical works contractors (HVAC) to successfully complete the remaining scope. The increased capacity of generators, UPS systems, and associated equipment is intended to ensure sufficient backup power during blackouts. The current plant room was identified as too small for the proposed new generators; therefore, the scope includes enlarging, converting, and extending the plant room to accommodate the new generator system.

4. REQUIREMENTS AND SCOPE OF SERVICES

The service provider will be responsible for:

a. Direct expansion down-blow units (equipment in UPS room B already installed and equipment for UPS room A is onsite)."
b. Chilled water up-blow units,
c. Chilled water air handling units,
d. Chilled water piping and reticulation
e. Ventilation fans,
f. Duct system complete with dampers and attenuators,
g. Full BMS Control system
h. Sprinkler system to be blocked off in UPS room A, battery room A, UPS room B, battery room B.
i. Commissioning of the new HVAC system for the UPS, Battery Rooms and Air Conditioning Plant and all associated peripheral equipment.
j. Decommissioning of the existing UPS, Battery Rooms and HVAC system.
k. Fire hose reels, signage and reticulation.

Refer to Annexure F for full detailed scope which must be read in conjunction with supplied drawings, BOQ and the spreadsheet highlighting outstanding items.

5. RFQ Validity period

This bid will remain valid **90 (ninety) days** from the date of closing.

6. Costing

The quotation must reflect a detailed cost breakdown, and any indirect costs associated with the rendering of required service as per the schedule in the Scope of Service

7. Duration of the Contract

9 months for installation of the entire system
12 months for maintenance

8. Location

SABC AUCKLAND PARK CAMPUS

9. SECOND PHASE: FUNCTIONALITY / TECHNICAL EVALUATION CRITERIA

- The tender submission will be technically evaluated out of .
- A minimum threshold of **out of a maximum of 105** has been set.
- Bidders achieving less than the set threshold will be declared non-responsive and therefore will not continue forward for evaluation of Price.

Evaluation Criteria	Description	Min Points	Max Points
Construction Methodology	Construction methodology is required due to SABC premises being occupied, the bidder to provide brief layout as to how work would be carried out with minimal business disruptions. Bidder to submit detailed information as per the items listed below. • **Safety = 5 points** • **Rubble removal =5 points** • **Dust management & Noise management = 5 points** • **Decommissioning of old UPS, and battery room= 5 points** • **No compliance to the above – 0 points**	**20**	**20**
Interfacing with existing services (Existing chilled water network)	A method statement is required, due to SABC utilities being operational and feeding critical services, on how planned downtime could be kept at a minimum and unplanned downtime mitigated. ***Bidders to submit detailed method statement covering and demonstrating understanding of the items listed below: Points to be allocated as follows:*** • **Risk assessment = (5 points)** • **Communication plan = (5 points)** • **Quality assurance = (5 points)**	**10**	**15**
References – Portfolio of Evidence.	The bidder to submit reference letters of successfully completed similar type of projects from previous clients. The HVAC bidder must be experienced in the following types of systems: Chilled Water System; Air handling unit and Equipment Rooms. **The valid reference letter must**	**20**	**30**

	be on a client letterhead, indicating Site Name, the scope of work conducted, and duly signed by the client with contact details including email OR telephone numbers. • **2-3 successfully similar completed projects = (20 points)** • **4-5 successfully similar completed projects = (25 points)** • **6 and above successfully similar completed projects = (30 points)** • **invalid reference letters will score the bidder zero points**		
Project Execution Plan (PEP)	Provide a detailed project execution plan including summary of major milestone deliverables - detailed programme plan including: • Tasks = (5 Points) • Duration = (5 Points) • Milestones = (5 Points) • Responsibilities = (5 Points) • **Non-compliance with the above = 0 points**	**20**	**20**
Technical capability	Bidder to provide the CVs and certified copies certificate/qualifications in HVAC/Refrigerant for the number of skilled labour that will be deployed for the duration of the project. • Team Leader/Supervisor: Must have HVAC experience of at least 5 years or more, with a minimum of NQF level 5 in Mechanical engineering or higher. (10 Points) • Qualified Refrigerant Artisan with valid safe handling of gasses licence: Must have HVAC experience of at least 5 years or more, with a minimum of NQF level 4 in Mechanical (10 points) • Registered Plumber with a valid certificate. (5 points)	**25**	**25**
Total		**95**	**110**

PRICE AND SPECIFIC GOALS

a. The 80/20 preference point system will apply to evaluate responses

b. The award of the tender / RFQ to will be based on functionality evaluation.

c. The Price and BEE (Specific goals) will be applicable to award the highest scoring bidder

10. PRICE AND (SPECIFIC GOALS) APPLICATION DURING CONTRACT IMPLEMENTATION

a. PRICE

The **80/20** preference point system

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

$$Ps = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where:

Ps	=	Points scored for comparative price of bid under Consideration
Pt	=	Comparative price of bid under consideration
Pmin	=	Comparative price of lowest acceptable bid

b. BEE (SPECIFIC GOALS)

SPECIFIC GOALS	**80/20**
EME/SME 51% owned by Black people	**10**
51% owned by Black people;	**5**
51% owned by Black people who are women	**3**
Black Youth	**2**

- ***NB: All tenders will be issued to the market with all specific goals, and these will be scored in accordance with the evidence as submitted by the bidder. The bidder who does not meet the specific goals will not be disqualified but score zero.***

c. **ADJUDICATION USING A POINT SYSTEM**

- The bidder obtaining the highest number of total points will be awarded the contract.
- Preference points shall be calculated after process has been brought to a comparative basis taking into account all factors of non-firm prices.
- Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

d. **Objective Criteria**

- The Corporation does not bind itself to accept the lowest or any tender, nor shall it be responsible for or pay The SABC reserves the right not to award this tender to any bidder based on the proven poor record of accomplishment of the bidder in previous projects within the SABC.
- The SABC will not award contract/s to the bidders who are blacklisted or have committed other acts of fraud and misrepresentation of facts e.g., tax compliance, company financials, etc. will be eliminated from the bid process.
- The SABC reserve the right not to award this tender to any bidder who fails the financial stability assessment.

- No SABC former employees shall be awarded contracts with the SABC within **12 months** after termination of employment with the SABC.
- Should employees resign or retire from the employment of the SABC and become directors of other businesses tendering with the SABC, such tender shall not be considered until the cooling off period of 12 (**Twelve**) months has expired.
- Should the employee be dismissed from the SABC employment, such employee shall be prohibited from conducting business with SABC for a period of **5 (Five)** years from the date of dismissal.
- Should the employee be found guilty in a court of law due to criminal conduct/act, such employee will not be considered to do/conduct business with SABC, until the criminal record has been legally expunged.
- The SABC shall not procure any goods, services, works or Content from any Board member or Board member owned business, to ensure that suppliers competing for the SABC's business have confidence in the integrity of SABC's selection process.
- Should the SABC's Board members no longer serve on the SABC Board but become directors of other companies, the SABC shall not conduct business with those companies until the cooling off period of **12 (Twelve)** months has expired.
- Should the Board member be found guilty in a court of law due to criminal conduct/act, such Board member will not be considered to do/conduct business with SABC, until the criminal record has been legally expunged.

11. COMMUNICATION

Respondents are warned that a response will be disqualified should any attempt be made by a tenderer either directly or indirectly to canvass any officer(s) or employees of SABC in respect of a tender, between the closing date and the date of the award of the business.

All enquiries relating to this RFQ should be emailed three days before the closing date.

12. CONDITIONS TO BE OBSERVED WHEN TENDERING

- The corporation does not bid itself to accepts the lowest or any tender, nor shall it be responsible for or pay any expenses or losses which may be incurred by the Tenderer in the preparation and delivery of his tender. The Corporation reserves the right to accept a separate tender or separate tenders for any one or more of the sections of a specification. The corporation also reserves the right to withdraw the tender at any stage.

- No tender shall be deemed to have been accepted unless or until a formal contract / letter of award is signed by both parties.

- **The Corporation reserves the right to:**

  - Make a selection solely on the information received in the submissions
  - Enter into negotiations with any one or more of preferred bidder(s) based on the criteria specified in the evaluation of this tender.
  - Contact any bidder during the evaluation process, in order to clarify any information, without informing any other bidders. During the evaluation process, no change in the content of the RFQ shall be sought, offered or permitted.

- Cancel this RFQ or any part thereof at any time.

- Should a bidder(s) be selected for further negotiations, they will be chosen on the basis of the greatest benefit to the Corporation and not necessarily on the basis of the lowest costs, aligned to the BEE & Price.

13. Cost of Bidding

The Tenderer shall bear all costs and expenses associated with preparation and submission of its tender or RFQ, and the Corporation shall under any circumstances be responsible or liable for any such costs, regardless of, without limitation, the outcome of the bidding, evaluation, and selection process.

14. PAYMENT TERMS

SABC will effect payment sixty (60) days after the service provider has rendered the service and submitted an invoice / statement.

END OF RFQ DOCUMENT

Annexed to this document for completion and return with the document:

Annexure A	-	Declaration of Interest
Annexure B	-	SBD 6.1 Form
Annexure C	-	Consortiums, Joint Ventures and Sub-Contracting Regulations
Annexure D	-	Previous completed projects/Current Projects
Annexure E	-	SBD 4 Form
Annexure F	-	Scope of work, BOQ, Spreadsheet highlighting outstanding items and Drawings

ANNEXURE A

DECLARATION OF INTEREST

1. Any legal or natural person, excluding any permanent employee of SABC, may make an offer or offers in terms of this tender invitation. In view of possible allegations of favoritism, should the resulting tender, or part thereof be awarded to-

   (a) any person employed by the SABC in the capacity of Tenderer, consultant or service provider; or
   (b) any person who acts on behalf of SABC; or
   (c) any person having kinship, including a blood relationship, with a person employed by, or who acts on behalf of SABC; or
   (d) any legal person which is in any way connected to any person contemplated in paragraph (a), (b) or (c),

   it is required that:

   The Tenderer or his/her authorised representative shall declare his/her position *vis-à-vis* SABC and/or take an oath declaring his/her interest, where it is known that any such relationship exists between the Tenderer and a person employed by SABC in any capacity.

   Does such a relationship exist? [YES/NO]
   If YES, state particulars of all such relationships (if necessary, please add additional pages containing the required information):

	[1]	[2]
NAME	:……	
POSITION	:……	
OFFICE WHERE EMPLOYED:	……	
TELEPHONE NUMBER	:……	
RELATIONSHIP	:……	

2. Failure on the part of a Tenderer to fill in and/or sign this certificate may be interpreted to mean that an association as stipulated in paragraph 1, *supra,* exists.

3. In the event of a contract being awarded to a Tenderer with an association as stipulated in paragraph 1, *supra*, and it subsequently becomes known that false information was provided in response to the above question, SABC may, in addition to any other remedy it may have:
   - recover from the Tenderer all costs, losses or damages incurred or sustained by SABC as a result of the award of the contract; and/or
   - cancel the contract and claim any damages, which SABC may suffer by having to make less favourable arrangements after such cancellation.

_____	_____	_____
SIGNATURE OF DECLARANT	TENDER NUMBER	DATE

_____	_____
POSITION OF DECLARANT	NAME OF COMPANY OR TENDERER

ANNEXURE B

SBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

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

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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 **80/20** 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.

1.4 **To be completed by the organ of state:**

The maximum points for this tender are allocated as follows:

SPECIFIC GOALS	80/20
EME/SME 51% owned by Black people	10
51% owned by Black people;	5
51% owned by Black people who are women	3
Black Youth	2

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:

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

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \quad \text{or} \quad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

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**

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right) \quad \text{or} \quad Ps = 90\left(1 + \frac{Pt - P\,max}{Pmax}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = 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 tenderers: The tenderer must indicate how they claim points for each preference point system.

The specific goals allocated points in terms of this tender	**Number of points allocated (80/20 system) (To be completed by the organ of state)**	**Number of points claimed. (80/20 system) (To be completed by the tenderer)**
SMMEs *(inclusive or QSEs and EMEs)* 51% owned by Black people	**10**	
51% owned by Black people;	**5**	
51% owned by Black people who are women	**3**	
Black Youth	**2**	

NB: All tenders will be issued to the market with all specific goals, and these will be scored in accordance with the evidence as submitted by the bidder. The bidder who does not meet the specific goals will not be disqualified but score zero

Source Documents to be submitted with the tender or RFQ

Specific Goals	Acceptable Evidence
B-BBEE	Valid BEE Certificate / Affidavit (in case of JV, a consolidated scorecard will be accepted)
Black Women Owned	Certified ID Documents of the Owners/shareholder
Black Youth owned	Certified ID Documents of the Owners
EME or QSE 51% Black Owned	Annual Financial/ Management Accounts/ B-BBEE Certificate / Affidavit/ Certified ID Documents of the Owners/shareholder
51% Black Owned	CIPC Documents / B-BBEE Certificate/Affidavit/ Certified ID Documents of the Owners/shareholder
South African Enterprises	CIPC Documents

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 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:	……
	……
	……
	……

ANNEXURE C

CONSORTIUMS, JOINT VENTURES AND SUB-CONTRACTING REGULATIONS

1. CONSORTIUMS AND JOINT VENTURES

1.1 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.

1.2 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate tender.

2 SUB-CONTRACTING

2.1 A person awarded a contract may only enter into a subcontracting arrangement with the approval of the organ of state.

2.2 A person awarded a contract in relation to a designated sector, may not subcontract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.

2.3 A person awarded a contract may not subcontract more than 30% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level of contributor than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.

3 DECLARATION OF SUB-CONTRACTING

3.1 Will any portion of the contract be sub-contracted? YES / NO

3.2 If yes, indicate:

3.2.1 The percentage of the contract will be sub-contracted …….....%

3.2.2 The name of the sub-contractor .....

3.2.3 The B-BBEE status level of the sub-contractor.....

3.2.4 whether the sub-contractor is an EME YES / NO

_____	_____	_____
SIGNATURE OF DECLARANT	TENDER NUMBER	DATE

_____	_____
POSITION OF DECLARANT	NAME OF COMPANY OR TENDERER

RFQ/MASTER/2024-1

ANNEXURE "D"

Previous completed Host-to-Host projects ***(preferably provide a detailed company profile, detailed the below mentioned information)***

Project Descriptions	Client	Contact no	Contact person	Email address	Period of projects	Value of projects	Project Commence date	Completed date

Current Host-to-Host projects (preferably provide a detailed company profile, detailed the below mentioned information)

Project Descriptions	Client	Contact no	Contact person	Email address	Period of projects	Value of projects	Project Commence date	Completion date

ANNEXURE "E"

BIDDER'S DISCLOSURE

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**

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.

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:

……

……

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.

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.

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

ANNEXURE F

TECHNICAL SPECIFICATION AND SCOPE OF WORK
FOR
MECHANICAL (HVAC) WORKS
AT
THE SABC -AUCKLAND PARK OFFICE

1. SCOPE OF WORK

The scope of work includes the design, supply, installation, and commissioning to full operation as shown in the drawings and as specified of the following equipment:

- Direct expansion down-blow units,
- Chilled water up-blow units,
- Chilled water air handling units,
- Ventilation fans,
- Duct system complete with dampers and sound attenuators,
- Full BMS Control system (Complete with indicator lights for fire dampers)
- Blocking off sprinkler system above gas protected areas (UPS and Battery Rooms)
- Commissioning of the new HVAC system for the UPS, Battery Rooms and Air Conditioning Plant and all associated peripheral equipment.
- Decommissioning of the existing UPS, Battery Rooms and HVAC system.
- Fire hose reels, signage and reticulation.

2. DESIGN CONDITIONS

HVAC equipment performance is affected by site location, and this report considers Johannesburg to reflect SABC's location with the following conditions:

- City Name : Johannesburg
- Location : South Africa
- Latitude : -26.1 Deg.
- Longitude : -28.2 Deg.
- Elevation : 1699.9 m
- Summer Design Dry-Bulb : 28.9°C
- Summer Coincident Wet-Bulb : 15.6°C
- Summer Daily Range : 10.4°K
- Winter Design Dry-Bulb : 1.1°C
- Winter Design Wet-Bulb : -2.2°C
- Atmospheric Clearness Number : 1.00
- Average Ground Reflectance : 0.20
- Soil Conductivity : 1.385 W/(m-°K)
- Cooling Months : January to December

3. UPS ROOMS

3.1 BACKGROUND

The UPS room contains mainly electrical / electronic equipment and has been assumed to be typified by facilities that are predominantly occupied by computers, networking equipment, electronic equipment, and peripherals. The most defining HVAC characteristic of data and communications equipment centres is the potential for exceptionally high sensible heat loads (often orders of magnitude greater than a typical office building).

In addition, the equipment installed in these facilities typically:

- Serves mission-critical applications (i.e., continuous operation)
- Has special environmental requirements (temperature, humidity, and cleanliness)
- Has the potential for disruptive overheating and equipment failure caused by loss of cooling

Design of these facilities should also address the fact that most equipment will be replaced multiple times with more current technology during the life of the facility; in about 1 to 5 years, whereas facilities and infrastructure have life cycles of 10 to 25 years. Replacement equipment has historically required more demanding power and cooling requirements. Understanding these critical parameters is essential in the facility design.

The new system should be able to integrate into the existing infrastructure, which is using Johnson Controls.

3.2 TEMPERATURE

Equipment exposed to prolonged high temperatures (and/or to steep temperature gradients) can experience increased failure rates, reduced service life, hardware and/or software failures, and/or thermal shutdown. Exceeding the recommended limits for short periods of time should not be a problem but running near the allowable limits for months could result in increased reliability issues. The design shall strive to operate with the provided temperature of 15 - 25°C (for a set point of 20°C). Not only is air temperature into the electronics critical for reliable operation of components in the electronic box, but the air discharged from the electronics and flowing over the components cabling, connectors, etc.) at the exit must also be addressed.

3.3 HUMIDITY

High relative humidity may cause conductive anodic failures CAF), hygroscopic dust failures (HDF), and excessive wear, and corrosion. In extreme cases, condensation can occur on cold surfaces of liquid-cooled equipment. Low relative humidity may result in electrostatic discharge (ESD), which can destroy equipment or adversely affect operation. The facility should be designed and operated to maintain the recommended humidity range of between 20 and 60% Relative Humidity which should not impact equipment operating life.

3.4 FILTRATION

Before being introduced into the ups room, outside air should be filtered and preconditioned to remove particulates and corrosive gases. Required and minimum filtration specification for recirculated air in the UPS room shall be 65%, min. 30% (MERV 11, min. MERV 8). Particulates can adversely affect electronic equipment operation, so high-quality filtration and proper filter maintenance are essential. Corrosive gases can quickly destroy the thin metal films and conductors used in printed circuit boards, and corrosion can

cause high resistance at terminal connection points. In addition, the accumulation of particulates on surfaces needed for heat removal (e.g., heat sink fins) can degrade heat removal device performance. The UPS room shall be maintained under positive pressure.

4. BATTERY ROOMS

4.1 BACKGROUND

There are two primary safety considerations associated with the ventilation and thermal management of stationary battery installations. The first is personnel safety and the second is the reliability of the battery and the equipment located in the same or adjacent spaces. Safety hazards associated with gas evolution from stationary battery installations include the following:

- Explosive gases
- Toxic gases
- Corrosive gases
- Acid vapor and or mist

Mechanical intervention detailed herein seeks to address the above-mentioned primary considerations where this intervention for stationary battery storage simultaneously optimizes performance of the battery system and provides maximum safety for personnel and infrastructure.

5. CONTROL PHILOSOPHY

5.1 UPS PLANT ROOM A: COOLING

5.1.1 Normal Duty Operation

The UPS plant room shall be complete with an up-blow chilled water air handling unit. This cooling unit shall have the supply duct leading into the general UPS room space as shown on the drawings. The UPS exhausts shall be installed such that they are a common duct and lead to the AC plant room where the chilled water unit is located. In this way the common duct return can serve either the air-conditioning unit inside the UPS room or the unit in the AC plant room (depending on the mode of operation). This unit shall be slightly delayed in the program to allow for building work and decommissioning of the existing UPS and battery room.

5.1.2 Standby Operation

Each UPS Plantroom shall be complete with a down-blow direct expansion cooling unit. This cooling unit shall have the return inlet ducted onto the UPS exhaust. The UPS exhausts shall be similarly combined such that they all lead to the one direct expansion unit. Cold air shall be supplied into the general UPS room space; for the UPS unit to draw via frontal grilles. This unit shall be commissioned and put into operation first while the Normal Duty System is still under construction.

5.1.3 Normal duty operation

a. BMS to open all 4 x fire dampers in the duct network via a motorized actuator.
b. BMS to close 1 x damper in the return plenum of the direct expansion unit located in the UPS room via a motorized actuator.
c. In case of a fire signal in either the UPS room, battery room, or the AC plant room
   – the 4 x fire dampers shall shut off and automatic change over such that UPS cooling shall be provided via a direct expansion unit located in the UPS plant room and await personnel intervention.

Or the user should be able to select which unit to run and dampers shall change accordingly.

d. Communication to the generated and sent to critical maintenance personnel for every change over to standby operation.
e. Supply and installation of UPS room temperature sensor and monitoring: communication generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
f. All equipment parameters to be monitored in the BMS via the Bacnet Tcp / IP serial board provided with the up-blow chilled water unit.
g. Allowance for remote machine monitoring during the commissioning period – by others.

5.1.4 Standby duty operation

a. BMS to close all 4 x fire dampers in the duct network via a motorized actuator.
b. BMS to open 1 x damper in the return plenum of the direct expansion unit located in the UPS room via a motorized actuator.
c. In case of a fire signal in either the UPS room, battery room, or the AC plant room - the 4 x fire dampers shall shut off and automatic change over such that UPS cooling shall be provided via the direct expansion unit located in the UPS plant room and await personnel intervention.
d. Communication to be generated and sent to critical maintenance personnel for every change over to standby operation.
e. Supply and installation of UPS room temperature sensor and monitoring: communication generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
f. All equipment parameters to be monitored in the BMS via the Bacnet Tcp / IP serial board provided in the down-blow direct expansion cooling unit.
g. Allowance for remote machine monitoring during commissioning period.

5.2 UPS PLANT ROOM B: COOLING

5.2.1 Normal Duty Operation

The UPS plantroom shall be complete with an up-blow chilled water air handling unit. This cooling unit shall have the supply duct leading into the general UPS room space as shown on the drawings. The UPS exhausts shall be combined such that they are in a common duct and lead to the AC plant room where the chilled water unit is located.

5.2.2 Standby Duty Operation

Each UPS Plantroom shall be complete with a direct expansion cooling unit. This cooling unit shall have the return inlet ducted onto the UPS exhaust. The UPS exhausts shall be combined such that they all lead to the one direct expansion unit. Cold air shall be supplied into the general UPS room space; for the UPS unit to draw via frontal grilles.

5.2.3 Normal duty operation

a. BMS to open all 4 x fire dampers in the duct network via a motorized actuator.
b. BMS to close 1 x damper in the return plenum of the direct expansion unit located in the UPS room via a motorized actuator.
c. In case of a fire signal in either the UPS room, battery room, or the AC plant room

– the 4 x fire dampers shall shut off and automatic change over such that UPS cooling shall be provided via a direct expansion unit located in the UPS plant room and await personnel intervention.

Or the user should be able to select which unit to run and dampers shall change accordingly.

d. Communication to the generated and sent to critical maintenance personnel for every change over to standby operation.
e. Supply and installation of UPS room temperature sensor and monitoring: communication generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
f. All equipment parameters to be monitored in the BMS via the Bacnet Tcp / IP serial board provided with the up-blow chilled water unit.
g. Allowance for remote machine monitoring during the commissioning period.

5.2.4 Standby duty operation

a. BMS to close all 4 x fire dampers in the duct network via a motorized actuator.
b. BMS to open 1 x damper in the return plenum of the direct expansion unit located in the UPS room via a motorized actuator.
c. In case of a fire signal in either the UPS room, battery room, or the AC plant room - the 4 x fire dampers shall shut off and automatic change over such that UPS cooling shall be provided via the direct expansion unit located in the UPS plant room and await personnel intervention.
d. Communication to be generated and sent to critical maintenance personnel for every change over to standby operation.
e. Supply and installation of UPS room temperature sensor and monitoring: communication generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
f. All equipment parameters to be monitored in the BMS via the Bacnet Tcp / IP serial board provided in the down-blow direct expansion cooling unit.
g. Allowance for remote machine monitoring during commissioning period.

5.3 BATTERY ROOM A & B

Each battery room shall be cooled via a dedicated chilled water unit ducted to supply conditioned outdoor air. The entire air supplied by the unit shall be exhausted such that the battery room is maintained at negative pressure.

Two ventilation fans are provided per Battery room in a duty / standby configuration.

5.3.1 Air Conditioning unit

a. Supply and install UPS room temperature sensor and monitoring: communication to be generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
b. All equipment parameters to be monitored in the BMS via the Bacnet Tcp / IP serial board provided with the air handling unit.
c. Necessary alarms are to be communicated to management in case of disfunction.

5.3.2 Ventilation

a. Allow for automatic changeover of fan systems in case of failure or in case pressure setpoint is not reached with a pre-set duration.
b. Communication to be generated and sent to maintenance personnel for every changeover to standby operation.
c. It shall also be possible to run both fans on full speed in case of fire or where an emergency switch is activated e.g. chemical spillage without fire. Supply and install an emergency activation switch. Communication to be generated and sent to maintenance personnel.
d. Supply and installation of UPS room temperature sensor and monitoring: communication generated and sent to critical maintenance personnel if setpoint is not reached with a pre-set duration.
e. Supply and install 4 x 2.2 kW variable speed drive to control fan speed against a pressure setpoint.

A FAIL-SAFE MECHANISM SHALL BE PROVIDED FOR ALL SYSTEMS TO MAINTAIN OPERATIONS IN CASE OF BMS FAILURE; CO-ORDINATION WITH BMS SPECIALIST NECESSARY.

5..4 BUILDING MANAGEMENT SYSTEMS (BMS) SPECIALIST WORK

The contractor shall allow for co-ordination and interfacing of all works with the BMS specialist for full HVAC equipment operation as specified. Full work co-ordination shall take place **prior** to equipment purchasing to ensure that equipment can be integrated into the **site BMS controlled by Johnson Control**.
BMS Specialist (ATBRO Systems) shall be responsible for the following:

a. Full Bacnet IP or MSTP Interface with hardwired points.
b. AHU controls and sensors will be issued to the HVAC Contractor for installation by ATBRO Systems.
c. Factory testing at the AHU Manufacturer to ensure the correct operation (assuming local supply) before equipment is delivered to SABC.
d. BMS programming, engineering, and commissioning. All valves and fire damper actuators to be supplied by the HVAC Contractor (Successful Bidder) and SABC provides network points at location for interfacing.
e. Engineering and programming of controls to conform to specification.
f. Engineering and programming of BMS and 3D Graphics.
g. Commissioning of complete BMS

5.4.1 UPS Room A & B

Supply of AHU Controls, Sensors, field equipment and Return Air Damper Actuators as per control philosophy. All equipment is to be installed by HVAC Contractor. Duty Standby Operation and Run Hours will be shown on the BMS.

The following monitoring points have been allowed per room:

a. Supply Air Temperature / Humidity
b. Return Air Temperature / Humidity
c. Outside Air Temperature / Humidity
d. Return, Supply and Exhaust Air Fan VSD output
e. Return, Supply and Exhaust Air Fan Static Pressure
f. Return, Supply and Exhaust Air Fan Start / Stop
g. Return, Supply and Exhaust Air Fan Airflow Status

h. BMS Enable – AHU and DX Unit
i. DX Unit Status – Run/ Trip
j. AHU Auto / Off / Manual Switch
k. Valve Output – Proportional Control
l. General Alarm
m. Room Temperature
n. Fire Damper Output – On / Off
o. Fire Damper Feedback (For Safety)
p. Return Air Damper Output
q. Filter Monitoring

4.4.2 Battery Room A & B

Supply of CHW AHU Controls, Sensors, field equipment and Return Air Damper Actuators as per control philosophy. All equipment needs to be installed by HVAC Contractor. Duty Standby Operation and Run Hours will be shown on the BMS.

The following monitoring points have been allowed per room:

a. CHW Output
b. Unit Start / Stop
c. Supply and Exhaust Fan Airflow Status
d. Supply and Exhaust Air Fan Static Pressure Sensors
e. UPS Room Differential Pressure Sensor
f. Supply and Exhaust Air VSD Output
g. Filter Status
h. Supply and Exhaust Air Temperature

5. MAINTENANCE

The following are recommended maintenance activities and intervals. Operating experience and system reliability objectives may dictate maintenance that is more frequent.

Monthly

- Inspect air filters and clean as necessary
- Test the annunciation and automatic switching functions
- Check refrigerant pressures of air-conditioning refrigeration systems as needed
- Regularly test to ensure adequate fresh air supply is available for dilution

Annually

- Inspect and clean inlet and exhaust air openings
- Perform lubrication and inspect belts and pulleys
- Calibrate instruments and controls

SABC RADIO PARK - ENGINEERING			**CONTRACTOR'S RATES**	
ENQUIRY BOQ - HVAC WORKS				
DESCRIPTION	**UNIT**	**QUANTITY**	**RATE**	**AMOUNT**
-				
SECTION NO.1				
–				
HVAC WORKS				
–				
PRELIMINARIES AND GENERAL				
-				
BILL NO.1				
FIXED CHARGE ITEMS				
Contractual requirements.				
Insurances	SUM	1		

Programming	SUM	1		
Performance Security	SUM	1		
Retention Guarantee	SUM	1		
Establishment of Facilities on the Site	H4			
Facilities for Engineer	H4			
Equipment for the Engineer's Staff	SUM	1		
Facilities for Contractor	H4			
Offices and Storage Sheds	SUM	1		
Workshops	SUM	1		
Site Establishment	SUM	1		

Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi-Skilled Labour and Unskilled Labour	SUM	1		
Laboratory Facilities	SUM	1		
Ablution and Latrine Facilities	SUM	1		
Tools and Equipment	SUM	1		
Water Supplies	SUM	1		
Electric Power	SUM	1		
Communication	SUM	1		
Air Supplies	SUM	1		
Dealing with Water	SUM	1		

Access	SUM	1		
Facilities Requiring Special Attention	H4			
Security	SUM	1		
Safety	SUM	1		
Samples and certification of materials	SUM	1		
Testing Authority	SUM	1		
Other Contractors	SUM	1		
Quality Assurance	SUM	1		
Orders and Indents	SUM	1		
Site Meetings	SUM	1		

Plant for the Works	SUM	1		
Transport on the site	SUM	1		
Transport of the Workforce to and from the site	SUM	1		
Supervision for the duration of the construction	SUM	1		
Company and head office overheads costs for the duration of the contract works	SUM	1		
Other fixed charge obligation - Contractor to submit details	SUM	1		
Remove site establishment on completion	SUM	1		
VALUE RELATED ITEMS				
Contractual requirements.	H3			
Insurances	SUM	1		

Programming	SUM	1		
Performance Security	SUM	1		
Retention Guarantee	SUM	1		
Establishment of Facilities on the Site	H4			
Facilities for Engineer	H4			
Equipment for the Engineer's Staff	SUM	1		
Facilities for Contractor	H4			
Offices and Storage Sheds	SUM	1		
Workshops	SUM	1		
Site Establishment	SUM	1		

Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour	SUM	1		
Laboratory Facilities	SUM	1		
Ablution and Latrine Facilities	SUM	1		
Tools and Equipment	SUM	1		
Water Supplies	SUM	1		
Electric Power	SUM	1		
Communication	SUM	1		
Air Supplies	SUM	1		
Dealing with Water	SUM	1		

Access	SUM	1		
Facilities Requiring Special Attention	H4			
Security	SUM	1		
Safety	SUM	1		
Samples and certification of materials	SUM	1		
Testing Authority	SUM	1		
Other Contractors	SUM	1		
Quality Assurance	SUM	1		
Orders and Indents	SUM	1		
Site Meetings	SUM	1		

Plant for the Works	SUM	1		
Transport on the site	SUM	1		
Transport of the Workforce to and from the site	SUM	1		
Supervision for the duration of the construction	SUM	1		
Company and head office overheads costs for the duration of the contract works	SUM	1		
Other value related obligations - Contractor to submit details	SUM	1		
Remove site establishment on completion	SUM	1		
TIME RELATED ITEMS				
Contractual requirements.	H3			

Insurances	SUM	1		
Programming	SUM	1		
Performance Security	SUM	1		
Retention Guarantee	SUM	1		
Establishment of Facilities on the Site	H4			
–				
Facilities for Engineer	H4			
Equipment for the Engineer's Staff	SUM	1		
Facilities for Contractor	H4			
Offices and Storage Sheds	SUM	1		
Workshops	SUM	1		

Site Establishment	SUM	1		
Living Accomodation - The Contractor to supply a breakdown of the different categories namley: Supervision, Skilled Labor, Semi Skilled Labour and Unskilled Labour	SUM	1		
Laboratory Facilities	SUM	1		
Ablution and Latrine Facilities	SUM	1		
Tools and Equipment	SUM	1		
Water Supplies	SUM	1		
Electric Power	SUM	1		
Communication	SUM	1		
Air Supplies	SUM	1		

Dealing with Water	SUM	1		
Access	SUM	1		
Facilities Requiring Special Attention	H4			
Security	SUM	1		
Safety	SUM	1		
Samples and certification of materials	SUM	1		
Testing Authority	SUM	1		
Other Contractors	SUM	1		
Quality Assurance	SUM	1		
Orders and Indents	SUM	1		

Site Meetings	SUM	1		
Plant for the Works	SUM	1		
Transport on the site	SUM	1		
Transport of the Workforce to and from the site	SUM	1		
Supervision for the duration of the construction	SUM	1		
Company and head office overheads costs for the duration of the contract works	SUM	1		
Other time related obligation - Contractor to submit details	SUM	1		
Remove site establishment on completion	SUM	1		
TOTAL- SECTION 1 - BILL NO. 1 PRELIMINARIES AND GENERAL				
–				

SECTION NO.2				
–				
BUILDING, CIVIL AND FIRE PROTECTION WORKS	**H1**			
BILL NO.1	**H1**			
ALTERATIONS	**H1**			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades				

SUPPLEMENTARY PREAMBLES	**H2**			
Unless otherwise stated, all materials from the alterations and demolition will belong to the builder.				

The builder should allow for the removal of all debris from site and keeping the site clean at all times.				
The Contractor should allow for removing of rubble from site on daily basis, failing which the client might stop the construction until the site has been cleaned.				
NATURE OF WORK: Tenderers are advised to visit the site and to satisfy themselves as to the nature and extent of the work to be done and provide in their tenders any items not specifically mentioned which they may deem necessary for the proper completion of the work. Tenderers are advised that the existing building will be in occupation during the progress of the work and due allowance must be made for work being carried out at such times and in such manner as will least interfere with the routine of the occupants and as may be directed by the Principal Agent.				
NATURE OF WORK: Tenderers are advised to visit the site and thoroughly acquaint themselves with the nature of demolitions, the nature and the extent the work to be done and adequate provisions are to be made in				

tendered rates for items not specifically mentioned which they may deem necessary for the proper completion of the work.				
THE BUILDING TO REMAIN NON - OPERATIONAL: Tenderers are to note that all existing buildings of the facility will remain occupied and fully operational during the construction period and due allowance must be made for the work being carried out at such times and in such manner as directed by the Project Manager to ensure the least interference with the routine at SABC Radio Park.				
DEMOLITIONS OF BUILDINGS: Tenderers are to note that tendered rates for the demolitions of buildings are to cater for the following:				
The temporary closing off and/or diversion of existing services i.e.chilled water connection, water supply, sewer lines, etc				
The complete ripping out and removal of old foundations and deed underground services as referred to above.				

Trenches; holes; etc. created as a result of the removal of foundations, services, etc shall be backfilled with approved filling material and compacted to 95% Mod AASHTO density.				
All other disturbed levels shall be ripped for a depth of 150mm, including breaking down oversize material and compacted to 93% Mod AASHTO density.				
It will at All times throughout The contract period, be expected from the Contractor to, immediately after each portion of demolishing has been completed, remove and cart away all building rubble generated to a dumping site to be located by the Contractor off the Building premises. The temporarily dumping and/or stockpiling of rubble on site will not be permitted				
CARTING AWAY OF EXCESSIVE AND/OR UNSUITABLE EXCAVATED MATERIAL, BUILDING RUBBLE, ETC				

Descriptions for "carting away excessive or unsuitable excavated material, building rubble from demolitions, etc from site" shall be deemed to include the loading and hauling of excessive or unsuitable excavated material, building rubble from demolitions, etc. to a suitable dumping site to be located by the Contractor off the building site.				
The location of the intended dumping site will be subjected to prior written approval of the Project Manager.				
The Contractor will also be liable to, upon completion, rehabilitate all those areas of the dumping site used dumping/spoiling by grading the area to follow the adjacent ground contours and afterwards compacted to 80% Mod AASHTO density, all to the satisfaction of the Project Manager.				
Tendered rates must make provision for the above-mentioned as no additional claims in this regard will afterwards be entertained.				
The re-use of old materials obtained from the demolitions in the construction of the new buildings, for filling, etc will not be permitted.				

EXISTING SERVICES: Special care is to be taken by the Contractor not to interefere unnecessarily with existing services. Should the contractor encounter any existing services such as underground cables, pipes or sewers during the execution of the works he shall notify the Project Manager immediately and suspend all affected work in the immediate vicinity until such have been dealt with (i.e. removed, disconnected, re-routed, etc) and to proceed with the work has been given by instruction to proceed with the work has been given by the Project Manager				
The Contractor shall afford every facility to Specialist which might be employed by the Project Manager to effect the necessary removal, disconnection, re-routing, etc of services as might be required.				
PROTECTION: In taking down and demolishing existing work the utmost care is to be observed to avoid any structural or other damages to the remaining portions and/or adjacent buildings, structures and services, etc. It will be expected from the Contractor to, at all times, employ adequate precaution measures in this regard and to provide all necessary materials for so doing.				

The Contractor will be held solely responsible for any damages to persons or property and for the safety of the structures throughout the whole of this Contract and shall make good at his own expense any such damages arising out of his failure to adhere to the aforesaid requirement.				
FILLING: Where described as "including back filling", "back filling" shall mean the filling of all trenches, holes, etc. with approved gravel filling (Minimum G5 standard) to be obtained from a commercial source and compacted to 93% Mod AASHTO density.				
OLD MATERIAL:				
Unless specifically otherwise described, all other old materials from demolitions are to become the property of the SABC, therefore, tendered rates for demolitions must cater for adequate credit in this regard.				
It will be expected from the Contractor that all old materials not required, rubble, rubbish, etc. to be immediately carted away and site left clean and unencumbered at all times.				

MEASUREMENT: Measurement given are approximate and the Contractor is advised to view the site and existing structures to be demolished and to thoroughly acquaint himself with the extent of the work to be done.				
Any errors to the tendered rates in this regard shall be Contractor's expense as no claims in this regard will be entertained afterwards				
TENDER: The submission of a tender will imply that the Contractor has physically visited the site and fully understands the content and extent of the work described in this Bill and, therefore, accepts that no claims in this respect will thus be entertained afterwards.				
DIMENSIONS The Contractor is advised to ake all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct size.				
PIPES, ETC Special care is to be taken not to interfere unnecessary with any supply pipes or other piping that may be met with and found necessary to disconnect or cut, are to be effectively stopped off and any new connections that may be necessary are to be made with proper fittings and				

to the satisfaction of the PA to whom due notice must be given of any alterations to the existing services.				
PROTECTION In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the buildings. The Contractor must also protect all work not removed such as walls, floors, doors, windows or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so. The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughtout the whole of this Contract and must make good at his own expense any damage that may occur.				

CREDITS, ETC Old materials from the pulling down (except such as described to be re-used) are to become the property of the SABC. Old materials for re-use are to be carfully removed, stored and protected from injury including making good any damaged or defective parts as required before fixing. Old materials described to be handed over are to be carefully removed and neartly stacked on site where directed by SABC Project Manager. The remainder of the old materials and all rubbish to be immediately carted away and the site left clean and unencumbered. None of the old stock bricks from the pulling down are to be re-used for any new work.				
MATERIALS, ETC The materials to be used and work to be done to be similar in all respects to that described for new work insofar as they concur. All work in making good is to be properly jointed to the existing.				
Note: The contractor to allow in his rate cost for the sending off of all removed materials to a salvage yard to be located by the contractor. The salvage yard should not be more 20 km from site.				
<u>BREAKING DOWN OF WALLS</u>				

Carefully breakdown the 220mm wall and make good in preparation to install the weather louvers.	m2	15		
Carefully breakdown the 330mm wall and make good in preparation to install the weather louvers.	m2	15		
NEW BRICK WALL				
220mm brick wall	m2	15		
330mm brick wall	m2	15		
PLASTERING				
220mm brick wall	m2	45		
330mm brick wall	m2	35		
TOTAL- SECTION 1 -BILL NO.1- ALTERATION				

SECTION NO.2				
BUILDING AND CIVIL WORKS				
BILL NO. 2				
CARPENTRY AN JOINERY				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
SUPPLEMENTARY PREAMBLES	**H2**			
Particle board:	**H3**			
Particle board shall comply with the following specifications:				

a) SABS 1300 Particle board: exterior and flooring type				
b) SABS 1301 Particle board: interior type				
Joinery:	**H3**			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc				
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes				
Fixing	**H3**			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				
Decorative laminate finish:	**H3**			

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
DOORS ETC				
Wrought meranti doors hung to steel sliders to spec				
Solid core class E rated meranti door suitable for a opening 1800 x 2420mm(WxH) sanded down and to receive 1 coat primer and 2 coats paint (grey). Door to have mild steel tracks and steel sliders/ rollers to spec.	No	1		
Door ironmongery to manufacturer specification and door to be secured in open position	No	2		
TOTAL- SECTION 2- BILL NO.2 - CARPENTRY AND JOINERY				
SECTION NO.2	**H1**			
BUILDING AND CIVIL WORKS	**H1**			

BILL NO. 3	**H1**			
CEILING , ETC.	**H1**			
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				
Trades.				

SUPPLEMENTARY PREAMBLES	**H2**			
Descriptions:	**H4**			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete				

Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere				
CEILING CONSTRUCTION, CORNICES, ETC.	**H2**			
Supply and installation of the ceiling boards				
One layer of 9mm thick PROMATECH-H board at bottom side of the ceiling with no board to board joints coincident to underside of steel framework. 100mm wide x 9mm thick PROMATECH-H cover strip located at all board joints on the unexposed side including shadowline installed complete.	m2	150		
Aluminium Grid Tee Installation for ceiling.				
Room perimeter to be secured and ceiling height marked and ensured level. Perimeter track shall be secured using steel sections by manufacturer's spec. Install econo grid or similar 38*24mm main aluminium tees perpendicular to perimeter track using suitable screws. Install cross tees at every 600mm intervals for installation of ceiling boards to spec.	m2	150		

Extra over ceiling for opening for 610 x 610mm trap door of 50 x 76mm wrought softwood rebated framing with one 38mm x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening	No	6		
TOTAL- SECTION 2- BILL NO.3 - CEILING				
SECTION 2				
BILL No. 4				
–				
IRONMONGERY				
For preambles see "Model Preambles for Trades (2008 Edition)" and Supplementary preambles as specified in the Trades.				

SUPPLEMENTARY PREAMBLES	**H2**			

Descriptions	**H4**			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs				
Finishes to ironmongery	**H4**			
Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:				
BS Satin bronze lacquered CH Chromium plated				
SC Satin chromium plated				
SE Silver enamelled				
GE Grey enamelled				
AS Anodised silver				

AB Anodised bronze				
AG Anodised gold				
ABL Anodised black				
PB Polished brass				
PL Polished and lacquered				
PT Epoxy coated				
SD Sanded				
HINGES, BOLTS, ETC				
150mm Lever flush bolts	No	2		
HINGES: Two ball-bearing butt hinges with Stainless Steel finish.	No	4		

LOCKS	**H4**			
Locksets including handles	**H4**			
Double cylinder lockset.	No	4		
HANDLES: Handle on 150 x 45mm pressed backplate with Anodised Silver finish including Euro Profile cylinder upright lock case and 66mm Euro Profile double cylinder.	No	4		
SUNDRIES	**H3**			
DOORSTOP: Aluminium doorstop with anodised Silver finish.	No	4		
LETTERS, NAMEPLATES, ETC	**H3**			
Natural anodised aluminium plates engraved with international pictograms in colour	**H4**			

SIGNAGE: "Name plate" engraved grade 304 Stainless Steel sign, size 150 x 150 x 1,2mm with counter-sunk fixing holes plugged and screwed with aluminium screws.	No	8		
TOTAL - SECTION 2 - BILL 4 - IRONMONGERY				
SECTION NO.2				
–				
MECHANICAL WORKS				
BILL NO.5				
-				
Note 1: Quantities reflected in these Bills are for tendering purposes. Contractors must order equipment based on site requirements.				
DECOMMISSIONING OF EXISTING UPS A SYSTEMS				

Remove existing exhaust duct system in the UPS A. Handover all elements of the exhaust duct system to the SABC.	Sum	1		
Remove existing air handling system and ducting in the UPS A. Handover all elements of the exhaust system to the SABC.	Sum	1		
Decommission sprinkler system above UPS and Battery rooms A and B. Handover all elements of the sprinkler system to the SABC.	Sum	1		
Remove existing UPS and Batteries in the UPS A. Handover all elements of the UPS/ Batteries system to the SABC.	Sum	1		
CHILLED WATER AIR HANDLING UNITS (AHU)				
Chilled Water Air-handling Units complete with compressors, all fans, heat exchangers, refrigeration circuitry, piping connections, anti-vibration mountings, steel structure plinth, supports, cabling sensors, safeties and controls, insulation installed as per specifications and drawings.				

Chilled Water Air Handling Unit - : 22.5kW @250Pa ESP	No	0		
Allow for installation and moving to final position	No	2		
CHILLED WATER UP BLOWERS UNITS (CW-UB)				
Chilled water up blower unit complete with all fans, compressors, control units, refrigeration circuitry, piping connections, anti-vibration mountings, steel structure plinth, supports, cabling, sensors, safeties and controls.				
NERO 80 - 83 kW TC, 66.4 kW SC	No.	2		
Allow for installation and connection to chilled water reticulation	No	2		
DIRECT EXPANSION DOWN BLOWERS UNITS (DX-DB)				
Direct expansion down blower unit complete with all fans, compressors, control units, refrigeration circuitry, piping				

connections, anti-vibration mountings, steel structure plinth, supports, cabling, sensors, safeties and controls.				
NEO 902 - 90.2 kW TC, 83.0 kW SC with plenum box with grilles	No.	0		
Allow for installation and moving to final position for UPS A	No	1		
Return plenum with front grille	No.	0		
Supply plenum with front grille	No.	0		
DX CONDENSING UNITS (DX-DBC)				
Direct expansion condensing unit complete with all fans, compressors, control units, refrigeration circuitry, piping connections, anti-vibration mountings, steel structure plinth, supports, cabling, sensors, safeties and controls.				
SC20-350-6, 14070 m^3/h	No.	0		

Pressure test and re-gas	Item	1		
Re-gas of DX Units	kg	150		
Steel structure to stack condensing units	No.	0		
Allow for communication cable from Condensing Units to Evaporators	m	36		
CONTROLS				
BMS control system for the UPS HVAC monitoring with a full BACnet IP or MSTP interface shall be allowed with hardwired points to accommodate the addition points to conform with control philosophy, including CHW AHU controls and sensors, all valves and fire dampers actuators for UPS A and B, Battery Room A and B, Fire relay interface complete.				
BMS Intergration	Item	1		

Status Indication lights - Fire Dampers	Sum	1		
Allow for replacement of Carel Controls with Johnson Controls	Item	1		
BMS Intergration - Profit and Attendance on BMS	Sum	1		
Allow for additional valves and sensors	Item	1		
FIRE DAMPERS				
Non motorised damper ABD 01 - 500 x 400mm	No	2		
Motorised fire damper with 2-hour rating, with actuator FD 01 - 890 x 500mm	No	4		
Motorised fire damper with 2-hour rating, with actuator FD 02 - 800 x 400mm	No	1		
Motorised fire damper with 2-hour rating, with actuator FD 03 - 400 x 400mm	No	2		

Motorised fire damper with 2-hour rating, with actuator FD 04 - 500 x 400mm	No	1		
SOUND ATTENUATORS				
SA 01 - 2000mm long - NC 45	No.	8		
SA 02 - 2400mm long - NC 45	No.	4		
FANS				
Descriptions of fan/attenuator assemblies shall be deemed to include supports and anti-vibration mountings from the structure, connections to, and including two attenuators per fan, flexible connections to ductwork, and all electrical connections.				
Wall mounted axial flow (fire proof) fan with weather lourve, fire dampers, actuators and 2-off sound attenuators complete				

500mm dia, 3,600 m^3/s at 150Pa - EAF	No.	4		
Supply or exhaust air rectangular grilles complete with volume control device and two flexible duct clamps				
890 x 600mm (WL 01)	No.	2		
600 x 600mm (WL 02)	No.	4		
700 x 700mm (WL 03)	No.	2		
1500 x 1500mm (WL 04) - Generator Room	No.	3		
600 x 2000mm (WL 05) - Generator Room	No.	2		
800 x 400mm (SAG 01)	No.	10		
220 x 200mm (RAG 01)	No.	8		

Galvanized Mild Steel pressure pipes, including straight couplers in running lengths fixed to underside of soffits and walls for Chilled Water (Supply and Return), insulated.				
40mm GMS chilled water pipes insulated	m	10		
80mm GMS chilled water pipes insulated	m	10		
Insulation over the 40mm GMS chilled water pipes	m	75		
Insulation over the 80mm GMS chilled water pipes	m	75		
Extra over Galvanised Mild Steel pressure pipes (Elbows, Tees, Reducers etc)				
80mm Fitting	No	6		
40mm Fitting	No	6		
80mm Butterfly Valve	No	2		

40mm Butterfly Valve	No	2		
Make provision for connecting to existing Chilled and Return pipes	Sum	1		
DUCTING				
Rectangular ducting externally insulated with 25mm sonic liner insulation, with flanged connections supported as per Standard Specification.				
Wall Transfer Duct - 800 x 1200mm	m	2		
1200 x 800mm	m	2		
890 x 500mm	m	2		
400 x 800mm	m	2		
600 x 600mm	m	2		

400 x 400mm	m	2		
Transformation piece externally insulated with 25mm sonic liner insulation rectangular duct				
1200 x 800mm to 890 x 500mm	No.	2		
890 x 500mm to 600 x 600mm	No.	2		
370 x 300mm to 280 x 300mm	No.	2		
Stop end externally insulated with 25mm sonic liner insulation rectangular duct				
890 x 500mm	No.	2		
400 x 800mm	No.	2		
400 x 400mm	No.	2		

90^0 bend piece externally insulated with 25mm sonic liner insulation rectangular duct				
890 x 500mm	No.	4		
Take-off shoe, uninsulated, 200mm long connected to uninsulated rectangular ducting, including cut-in to parent duct, suited to take-off duct size				
400 x 800mm	No.	2		
890 x 500mm	No.	2		
Rectangular ducting, uninsulated with flanged connections, supported as per Standard Specification.				
1500 x 1200mm	m	0		
400 x 400mm (Installation Only)	m	0		

Transformation piece in uninsulated rectangular duct				
500mm diameter to 400 x 400mm	No.	0		
500mm diameter to 600 x 600mm	No.	0		
Branch take off from externally insulated rectangular duct				
890 x 500mm	No	0		
400 x 800mm	No	0		
90^0 bend piece uninsulated rectangular duct				
400 x 400mm	No.	4		
Y piece uninsulated rectangular duct				
400 x 400mm - 400 x 400mm - 400 x 400mm	No.	1		

AS-BUILT DRAWINGS AND MANUALS				
The contractor shall make provision for a detailed set of as-built drawings and operational manuals of the entire installation for approval by Engineer. Refer to project drawings. 3-Set of files	Set	3		
COMMISSING AND TESTING				
Commission and test the air conditioning and ventilation installation in accordance with Standard and Technical Specifications.	Item	1		
FIRE PROTECTION				
Supply, delivery, installation, commissioning and testing of the fire protection equipment and signage complete with fixtures, fittings, connections and accessories.				
EQUIPMENT				

Fire hose reel inside steel cabinate, 30m hose at discharge rate of 0,5l/s @400kPa and fire signage	No.	2		
PIPING AND FITTINGS				
Galvanised Mild Steel pressure pipes				
25mm Pipes	m	20		
50mm Pipes	m	25		
Extra over Galvanised Mild Steel pressure pipes, common fittings (elbows, tees, reducers, crossovers, etc)				
25mm Fitting	No	10		
50mm Fitting	No	13		
Allow for block off of existing Sprinkler system above Gas protected areas (UPS room A and B, Battery room A and B	Item	1		

PLUMBING CERTIFICATE (CoC)				
The Contractor shall make provision to issue certificate of compliance (COC) for the entire installation after commissioning - See Standard specification.	Item	1		
GUARANTEE				
12 month free maintenance and guarantee on the installation as a whole in accordance with the Standard Specifications.	Item	1		
12 month free maintenance and installation guarantee on the existing (on-site) equipment as a whole in accordance with the Standard Specifications.	Item	1		
TOTAL- SECTION 2 - BILL NO.5 - MECHANICAL WORKS				
SECTION 3				

CONTINGENCIES				
Allow 15% contingencies of the measured works including the preliminaries and general. Contingencies to be used at the discretion of the principal agent.	Item	1		
TOTAL- SECTION 3 - CONTINGENCIES				
TOTAL BID PRICE (VAT EXCL.)				
Add: Value Added Tax at 15%				
TOTAL PRICE (VAT.NCL)				