



**Addendum 01: REPLACEMENT OF HVAC EQUIPMENT PHASE 1 AT O.R TAMBO
INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS**

Tender reference number ORTIA8172/2026/RFP

Date: 17 September 2026

Dear Prospective Bidder,

The follow serves as acknowledgment of receipt of Addendum 01 (One).
All changes are noted in red text.

Change 1:

Part C1.2 ECC3 Contract Data

Part one – Data provided by the Employer

Clause removal/deletion:

X17: Low performance damages

Change 2:

Part C3: Works Information

C3.6. Plant and Materials standards and workmanship

Old text:

2. “.....”

3.6.2 Building works

None.

3.6.3 Civil engineering and structural works

None.

3.6.4 Electrical & mechanical engineering works

The specifications are all included in the Annexure A: Detail Technical Specification of this document.

.....”

New text:

2. “.....”

3.6.2 Building works

As per C3 – 3.3 Engineering and the Contractor's design.

3.6.3 Civil engineering and structural works

As per C3 – 3.3 Engineering and the Contractor's design.

3.6.4 Electrical & mechanical engineering works

The minimum technical specifications are all included in the Annexure B: Minimum Technical Specification of this document.

.....”

Change 3:

Part C3: Works Information
ANNEXES to C3 (Works Information)
Insertion of Annexure B and C:

Old text:

Title	Annex number	Applicable or N/A
Schedule of Equipment	Annexure A	Applicable

New Text:

Title	Annex number	Applicable or N/A
Schedule of Equipment	Annexure A	Applicable
Minimum Technical Specification	Annexure B	Applicable
Equipment Nameplates	Annexure C	Applicable

ANNEXURE B**MINIMUM TECHNICAL SPECIFICATION**

1. General Design Requirements, Principles, Review and Documentation

1.1 Design Requirements

1.1.1 Indoor Design Temperatures

The indoor Dry Bulb design Temperatures for Summer and Winter should range between 22-25 degrees.

1.1.2 Humidity

The targeted indoor humidity design range should be between 40 – 60%.

1.1.3 Fresh Air and Ventilation Requirements

Minimum fresh air and ventilation requirements should be as per SANS 10400 Part O and Part T and the entity entrusted with the design responsibility must demonstrate compliance in this regard. All fresh air

1.1.4 Cooling Coil Design Conditions

The design of on-coil and off-coil conditions should be based on the applicable area's psychometric charts.

1.1.5 Fresh Air Induction

Induction of fresh air must be ducted to a mixing plenum and to the cooling coil. Open plan offices and boardrooms must have fresh air induction. Openable windows must be provided in spaces where ducted fresh air cannot be supplied.

1.2 Design Principles

The following minimum considerations shall where feasible underpin the design and selection of HVAC equipment:

- a) User requirements (Consideration for how the user consumes the HVAC service)
- b) Legal considerations
- c) Zoning of a building and degree of user control required per zone
- d) Degree of redundancy
- e) Area and site water availability
- f) Site power availability and reserve margin
- g) Available waste power sources
- h) Degree of impact on the environment
- i) Energy efficiency (Equipment SEER/EER/COP, Airside economisers, Water-side economisers, Thermal storage, and heat recovery)
- j) Capital and life cycle costs
- k) Building aesthetics when selecting position of outdoor equipment
- l) Degree of noise and vibration associated with selected equipment for the entire building load range
- m) Constructability and Maintainability
- n) Building security risk classification and the level of filtration.

1.3 Air Handling Units

Air handling units in central HVAC applications are used as Air-to-Water heat exchangers and for air distribution to and from the cooled space(s). The following minimum specifications shall apply for design or selection of chilled water type air handling units:

Structure:	Insulated body panel with high-strength aluminium alloy frame
Foam type:	Polystyrene min 40kg/m ³ density
Max Operating sound pressure level within 10m:	<50 dB-A
Heating medium:	Hot water
Cooling medium:	Chilled water/ Environmentally friendly refrigerant.
Condensate collection pan and drain piping:	Yes
Primary filtering:	Yes
Secondary Filtering:	Yes
Minimum Filter MERV Rating:	8
VSD Driven fan:	Yes
Air flow sensor and transmitter:	Yes
Air Temperature sensor and transmitter:	Yes
Static Pressure transmitter:	Yes
Controller type:	PLC
Air-side economiser:	Yes
Voltage sensor:	Yes
Current sensor:	Yes
Fire detection relay:	Yes
Limit switch for Access door (Trip when opened):	Yes

1.4 Ducting

1.4.1 Duct shapes

Duct sizing shall generally be dependent on the greatest volumetric flow rate between the required flow to achieve the space cooling load or space fresh air requirements. Round ducts shall generally be used except in applications where the duct size cannot be accommodated in the ceiling voids. Duct material shall be galvanised.

Inspection holes shall be placed every 100m along the duct run to enable camera inspection or duct cleaning as part of duct maintenance. These inspection holes shall be installed such that air recirculation is kept to an absolute minimum.

Ducts shall where practical be insulated to minimise heat gain.

1.4.2 Duct Velocities

Duct velocities shall generally not exceed 6m/s to minimise noise. The equal friction method is generally the preferred method of duct sizing.

1.4.3 Duct Accessories

Air flow direction change shall preferably be done through smooth bends, trousers and Wyes to minimise air recirculation. Spigot dampers shall be fitted to the branch ducts, followed by round ducts and flexible ducts before termination on the diffuser. Under no circumstances shall a flexible duct length exceed 1.5m.



EQUIPMENT NAMEPLATES

ANNEXURE C

Insertion on NEC3 ECC Contract



Receipt of acknowledgement of addendum

Bid ref: **ORTIA8172/2026/RFP**

Notice to Bidder No. : 01

Name :

Signed/ Stamp :

Date :

Please email back to: Davis.Mthethwa@airports.co.za

Yours Faithfully
Davis Mthethwa
SCM Representative