

**APPOINTMENT OF A SERVICE PROVIDER FOR THE SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND DECOMMISSIONING OF AIR CONDITIONING SYSTEMS FOR TWO (2) OFFICE ROOMS AT THE MINING QUALIFICATIONS AUTHORITY EASTERN CAPE OFFICE (UMTHATHA)- KING SABATHA DALINDYEBO (KSD) TVET COLLEGE, R61 QUEENSTOWN ROAD, CICIRA VILLAGE, MTHATHA.**

## **1. BACKGROUND**

The MQA requires the supply, installation and commissioning of new air conditioning units for two separate office rooms located at the Eastern Cape Office. Each room shall be fitted with an independent split-type air conditioning system consisting of one indoor unit and one outdoor unit.

In addition, one existing non-functional air conditioning system currently installed in one of the rooms must be decommissioned and removed, including both the indoor and outdoor units.

## **2. SCOPE OF WORK**

### 2.1 Decommissioning and Removal of Existing Unit

The appointed service provider shall:

- Decommission the existing non-functional air conditioning system in one office
- Remove the existing indoor unit
- Remove the existing outdoor unit
- Safely disconnect all associated piping and electrical connections

### 2.2 Supply and Installation of New Air Conditioning Units

Supply, install and commission:

- 2 x Wall-mounted inverter indoor units
- 2 x Outdoor condenser units

Each indoor unit shall operate independently and be connected to its own outdoor unit in separate office rooms.

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## 3. TECHNICAL SPECIFICATIONS

### 3.1 Indoor Units

The indoor units must comply with the following minimum specifications:

- Type: Inverter split-type wall-mounted unit
- Capacity: Approximately 12,000 BTU per room (suitable for standard office accommodation)
- Energy Efficiency: Minimum A-rated energy efficiency
- Features:
  - Independent remote control or wall-mounted digital controller
  - Quiet operation
  - Anti-dust filtration system
  - Cooling and heating functionality

### 3.2 Outdoor Units

The outdoor condenser units must:

- Be compatible with the supplied indoor units
- Be suitable for external weather conditions
- Be securely mounted using appropriate brackets and supports
- Include weatherproofing and anti-corrosion protection

## 4. INSTALLATION REQUIREMENTS

The installation shall include, but not be limited to, the following:

- Installation of all indoor and outdoor units
- Refrigerant piping and insulation
- Electrical connections and isolators
- Drainpipes and condensate management
- Mounting brackets and supports
- Core drilling and sealing where required
- Supply and charging of eco-friendly refrigerant (R410A or R32)
- Testing and commissioning of the complete systems
- Demonstration of operation to MQA representatives

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All installations must comply with applicable SANS standards, Occupational Health and Safety requirements and manufacturer specifications.

### **5. WARRANTY**

-The service provider must supply genuine, branded air conditioning units that are manufactured by the original brand owners.

-12 months on workmanship.

-3 years on compressors.

-1 year on general components.

*Please note that the offices are located on the first floor of the building. The appointed service provider shall therefore be required to provide all necessary equipment, tools and safety measures required for working at heights, including ladders, scaffolding and any other relevant access equipment. All work performed at heights must comply with applicable Occupational Health and Safety (OHS) requirements and regulations.*

### **6. MANDATORY REQUIREMENT**

The service provider must be registered with CIDB (Construction Industry Development Board) at Grade 1 ME or higher.

