

**SPECIFICATION FOR THE SUPPLY, DELIVERY AND INSTALLATION OF HEATING, VENTILATION, AND AIR CONDITIONERS AT CENTRAL OFFICE**

Description	Quantity	Unit of	Rate	Amount
9000 BTU mini cassette unit, smart inverter type air conditioner:  <ul style="list-style-type: none"> <li>• Energy-efficient digital inverter technology, reducing consumption by at least 40%.</li> <li>• Silent operation.</li> <li>• Self-cleaning function, anti-corrosion fin.</li> <li>• Full High Density (HD) air filter.</li> <li>• Turbo cool feature.</li> <li>• Good sleep mode.</li> <li>• Power input (cooling): ~700 - 950 W.</li> <li>• Power supply: 220-240V, 50Hz.</li> <li>• Current: ~3.7 - 6.5 Amps.</li> <li>• Refrigerant: R410A.</li> <li>• Piping: 1/4" &amp; 3/8" copper lines, length: 25m</li> <li>• Piping: 3/8" suction gas line &amp; 1/4" liquid line, copper pipe length: 25m</li> </ul>	10	no.		
24 000 BTU under-ceiling unit, smart inverter type air conditioner:  <ul style="list-style-type: none"> <li>• Energy-efficient digital inverter technology, reducing consumption by at least 40%.</li> <li>• Silent operation.</li> <li>• Self-cleaning function, anti-corrosion fin.</li> <li>• Full High Density (HD) air filter.</li> <li>• Turbo cool feature.</li> <li>• Good sleep mode.</li> <li>• Power input (cooling): ~1900 - 2500 W</li> <li>• Power supply: 220-240V, 50Hz.</li> <li>• Piping: 5/8" suction gas line &amp; 3/8" liquid line, copper pipe length: 25m</li> </ul>	1			
Provisional sum - removal of existing air-conditioners	11	no.		R5 500.00
<b>Sub-total</b>				
<b>VAT@15%</b>				
<b>Grand total</b>				

**NB:**

- The grand total should include all ancillaries required (e.g electrical wiring, piping, including return condensate pipes).
- Circuit breakers should be sized at 125% of the load.
- The air conditioners should be of a good quality and a reliable brand.
- The installation should be according to the Original Equipment Manufacturer's specifications and standards.

## **COMPULSORY REQUIREMENTS**

1. A valid proof of at least 2ME CIDB grading.
2. Inverter type air-conditioners running on R410 gas.
3. Two (2) years warranty period for all three HVAC's.
4. Three (3) years warranty period for compressors.
5. At least three reference letters for similar works completed amounting to R200 000 each should be submitted.
6. The successful bidder should carry out maintenance according to the manufacturer's specification for a period of twelve (12) months.
7. All electrical works and associated works relating to the installation and commissioning of all three HVAC units should conform to the respective SANS standards.
8. Proof of electrical trade certificate or wireman's license.
9. Two (2) years warranty to be provided for all electrical works and ancillaries.
10. Proof of registration with the Registration with SAIRAC and SARACCA or any recognised national body (copy of certificate).
11. Registration with ECBSA, the Engineering Council of South Africa, ECASA - Electrical Contractors Association (South Africa) or any recognised national body (copy of certificate).
12. Certified copy of wireman's licence.
13. A COC should be issued upon completion of the installation and commissioning all three air-conditioners.