

Transnet National Ports Authority

Port of Port Elizabeth



REPLACEMENT OF SPLIT UNIT AIR-CONDITIONING FOR THE PORT OF PORT ELIZABETH ON A ONCE- OFF PERIOD

SPECIFICATION AND BILL OF QUANTITIES FOR:

Replacement of split unit air-conditioning in Port of Port Elizabeth

CIDB requirements

- The tender CIDB class of works code: 1ME or higher.

1. SCOPE OF WORKS AND GENERIC CONDITIONS OF CONTRACT

1.1. BACKGROUND AND PURPOSE

Transnet National Port Authority (TNPA) as the landlord within in the Port of Port Elizabeth is responsible for the maintenance of assets in the port. It's common for port facilities and other large industrial or commercial spaces to utilise air conditioning systems for the comfort of occupants and the optimal operation of electronic equipment. Air conditioning serves several purposes in such environments:

Ports often have administrative buildings, control centers, and other facilities where personnel work. Air conditioning ensures a comfortable working environment, especially during hot or humid weather.

Electronic equipment, such as servers, communication systems, and control panels, generates heat during operation. Efficient air conditioning helps dissipate this heat, preventing overheating and ensuring the proper functioning of critical equipment.

Comfortable working conditions contribute to the well-being and productivity of the workforce. Maintaining a suitable temperature and humidity level helps create an environment conducive to efficient work.

1.2. SCOPE OF WORKS AND SPECIFICATIONS

The scope of work includes:

1.2.1. Supply and install air conditioners listed in Table 1, with the following features:

- Auto Restart Function
- Rapid Heating & Cooling

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- Super – quiet Motor
- Remote Control with LCD Display
- Eco-friendly R410a Gas Refrigerant
- Cooling and Heating
- Installation kit with 3 m piping, bracket and interconnecting cable
- Energy Savings

1.2.2. Supply and apply corrosion protection for external components;

1.2.3. Removal of the currently installed aircons.

Table 1: Air-condition list

BUILDING NAME (Cost Centre)	LOCATION	SUPPLY AND INSTALL
Procurement Building	Procurement manager	1x 12000 BTU
	Contract specialist	1x 12000 BTU
	Procurement store	1x 12000 BTU
Civil Depot	Chief Engineering Technician (Wet assets) office	1x 9000 BTU
	Examiner office	1x 12000 BTU
	Planner office	1x 9000 BTU
	Server room	1x 12000 BTU
	Admin Office	1x 24000 BTU
	Supervisor	1x 9000 BTU
Clinic Building	Clinic waiting room	1x 12000 BTU
Marine Department	Dining room	1X 24000 BTU
	Boardroom	1X 24000 BTU
	Gym Area	2X 9000 BTU
Fire Department	Shared Office/Workshop	1X 18000 BTU

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Port Control Building	Port control (Control room) Cassette Inverter Air Conditioner	1x 60000 BTU
Admin Building	Reception	1X 36000 BTU
	Finance	1X 9000 BTU
	Server room	1X 18000 BTU
	Lower Ground Canteen Cassette Inverter Air Conditioner	2X 60000 BTU
	Secretary	1X 9000 BTU

1.3. LOCATION OF SITE AND ACCESS

1.3.1. Buildings are located inside the Port of Port Elizabeth and access will be granted by technical supervisor arrangements needs to be made.

1.4. WORKING HOURS

1.4.1. The working hours shall be from 8h00 to 16h00, Monday to Friday excluding public holidays.

1.4.2. The Service Provider must not vary the working hours without a written instruction from the Project Manager.

1.4.3. Care should be taken to minimise the impact on occupants of the buildings during the conduction of works.

1.5. COMPLIANCE

1.5.1. The service provider must comply and ensure that he/she complies with all applicable legislation including the occupational health and safety acts, equal opportunity legislation, road traffic acts, transport acts, registered workplace agreements of employer-employee agreements, the Safety, Health and Environment (SHE) requirements and all lawful direction of the TNPA representative applicable to the contract.

1.5.2. The service provider must obtain all necessary permits, licenses and approvals, give all notice required to be given and pay all applicable relevant

fees in connection with the contract and provide evidence of compliance to the TNPA or the TNPA's representative on request.

1.5.3. The service provider shall comply with the Port of Port Elizabeth's SHE regulations and requirements.

1.6. PARKING & VEHICLES

1.6.1. Parking will be at any open parking. Vehicles used for people and equipment transport must be easily identifiable as a company vehicle.

1.6.2. Parking is at own risk and TNPA will not be held accountable for any damage that may occur.

1.7. GENERAL PRICING INSTRUCTIONS

1.7.1. Pricing assumptions mean the criteria as set out below, read together with all parts of this specifications document, which it will be assumed in the contract that the tenderer has taken into account when developing their rates and prices.

2. BILL OF QUANTITIES

ITEM NO.	DESCRIPTION	Unit	QTY	Rate (R)	Total amount (R)
	This BoQ shall be read in conjunction with this specifications document.				
1	Submission of SHE file	each	1		
2	Supply and install				
2.1	Supply and install 9000BTU Inverter Air conditioning	each	7		
2.2	Supply and install 12000BTU Inverter Air conditioning	each	6		
2.3	Supply and install 18000BTU Inverter Air conditioning	each	2		
2.4	Supply and install 24000BTU Inverter Air conditioning	each	3		
2.5	Supply and install 36000BTU Inverter Air conditioning	each	1		

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2.6	Supply and install 60000BTU cassette Inverter Air conditioning	each	3		
3	Corrosion protection				
3.1	Application of corrosion protection	each	22		
4	Removal of existing units				
	Removal of existing units and returning to TNPA for disposal	each	17		
5.	Sub total				
6.	VAT				
7.	GRAND TOTAL				

3. SIGN OFF AND APPROVAL OF SPECIFICATION

Recommended/Not Recommended

Naledzani Tshivhase

Electrical Engineer

Date:

Recommended/Not Recommended by:

Tumelo Manaka

Port Engineer

Date: