

Private Bag X06
Honeydew
2040
Enquiries
Tel: (011) 471 4700
.....@sentech.co.za

**Middleburg Mpumalanga ,Sentech
Transmitter Site ,FM room**

SCOPE OF WORK Sept 2022

**SUPPLY AND INSTALL 3x UNDER CEILING AC UNITS (24 000 BTU EACH)WITH ALL
RELEVANT PIPING DRAINAGE AND SECURITY CAGES.**

1. SITE LOCATION

Sentech Middleburg Mpumalanga Transmitter Site.

Site coordinates – Lat -25.818459, Long 29.389670

2. COMPULSORY SITE INSPECTION

No Compulsory site inspection will be conducted.

Pictures are included with this document for information purposes.

3. SCOPE OF WORK

3.1. SUPPLY AND INSTALL 3x UNDER CEILING AC UNITS (24 000 BTU EACH)WITH ALL RELEVANT PIPING DRAINAGE AND SECURITY CAGES.

- a. Supply and install three new Mitsubishi Under Ceiling units indoor unit PCA-M71KA, Outdoor unit SUZ-KA71VA3 or equal approved.
- b. Please take note this a New installation, Hanging brackets are to be included in the Quotation.(Full installation)
- c. Distance between Outdoor to indoor unit is estimated to be +- 15 m
- d. Supply and install all refrigerant copper piping and fittings by means of Braising.
- e. The refrigerant piping needs to be true and Straight and needs to be sufficiently supported on Suitable holderbats.
- f. All copper piping needs to insulated with new 15mm thick Armaflex insulation.
- g. 3 Steel security Cages will need to be supplied and installed protecting each outdoor unit.
- h. An Isolator will be supplied at each outdoor unit By Sentech. Connection between Isolator and Outdoor unit to be included in Quotation (5m of Cable needs to be allowed per unit)
- i. Where piping is exposed to sunlight the piping needs to be covered with suitable PVC or Galvanized trunking.(Allow for 8 m trunking per unit)
- j. Supply and install condensate drain piping, minimum 20mm diameter uPVC piping including core drilling though existing walls. Condensate piping needs to be supported using suitable holder bats and needs to run to the exterior of the building to the nearest suitable drain point. A suitable U shape pipe Configuration must be used at the condensate point of discharge.
- k. Commission new HVAC unit in presence of Sentech Personnel with Handover Documents.
- l. Certificate of Conformity needs to be supplied.
- m. Remove all building materials and rubble from site if any.

3. COMMISSIONING

- a. On completion of the entire installation, tenderers are required to assist to ensure correct air flow in the building.
- b. A full handover document with all relevant documentation would need to be supplied as well as a soft Copy.

4. HEALTH AND SAFETY FILE

Tenderers must make allowance for the compilation and submission for approval by Sentech, a Health and Safety File for HVAC. The guideline HVAC requirements are indicated below.

The OHS Files would need to be approved by Sentech prior to site works.

OCCUPATIONAL HEALTH SAFETY AND ENVIRONMENTAL PROJECT FILE

PROJECT NAME

**SUPPLY AND INSTALL 3x UNDER CEILING AC UNITS (24 000 BTU EACH)WITH ALL
RELEVANT PIPING DRAINAGE AND SECURITY CAGES.**

INDEX

1. Occupational Health Safety Environmental Policy
2. Legal appointments
 - a. 16 1 Appointee – CEO/MD/GM
 - b. 16 2 or CR6.1 Appointee – Most Snr. HVAC Technical personnel onsite
 - c. CR 7.1 – Risk Assessor – proof of training
 - d. CR8.1 – fall protection planner – proof of competence
 - e. GAR 9.2 – Incident Investigator - proof of training
 - f. EMR 9.4 –Electrical portable tools inspector
 - g. GSR 3.4 – First Aider - proof of training
 - h. CR 27 – Fire Fighter & equipment Inspector - proof of training
3. Training Records supporting most legal Appointments above
4. Scope of Operation
5. Section 37.2 Agreement
6. Public Liability Insurance
7. Letter of Good Standing
8. Safety plan including the following:
 - a. Risk Assessment indicate assessment criteria
 - b. Fall protection plan i.e. ladder or scaffold, whichever most applicable method.
 - c. Checklist
 - i. Portable Electrical Tools
 - ii. Hand tools
 - iii. Ladders –A frame
 - iv. Scaffold
 - v. PPE
9. Emergency plan including:
 - a. First Aid box with standard contents
 - b. IOD reporting procedure or routing diagram
 - c. IOD forms WCL1 or 2
 - d. Incident Investigation procedure and forms
 - e. Emergency numbers
10. Induction and Toolbox Talks with registers and minutes template
11. Waste disposal plan e.g. wooden material, cable wires, steel material etc.

5 PRICING SCHEDULE

Middleburg Mpumalanga Sentech Transmitter Site ,FM room

Item	Bill of Quantities			
	Description	Quantity	Rate	Total
1	Middleburg Mpumalanga Transmitter Site ,FM room			
1.1	Supply and Install 24 00 BTU Inverter under ceiling unit as per Scope of works	3		
1.2	Transportation of Units and installation Staff	1		
1.3	Installation of unit as per the scope of Works including new Hanging Bracket. Inside and Outside.	3		
1.4	Supply and install a steel security cage for outdoor unit	3		
2	Commissioning			
2.1	Labour component to Commission All AC units	1		
2.2	Occupational Health and Safety File	1		
2.3	Certificate of Conformity for Each AC unit	3		
3	Total Cost of Installation			

Directors: Sedzani Mudau (Chairperson), Veronica Motlou, Mapuleng Maropa, Tshavhuyo Sesane, Themba Phiri, Nkhumeleni Mudunungu, Mbasa Metusa, (ED & CEO) Mlamli Boo, (ED & Acting CFO) Komathie Govender CA (SA), & (ED & COO) Tebogo Leshope.

Company Secretary: Xolisile Njapha

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