



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

91G/2021/22: TELECOMMUNICATIONS SUPPLY, INSTALL AND MAINTAIN BROADBAND RADIO EQUIPMENT FOR THE CITY OF CAPE TOWN

29 October 2021

Making progress possible. **Together.**

Overview

- TECHNICAL REQUIREMENTS
- MANDATORY REQUIREMENTS
- FUNCTIONAL REQUIREMENTS
- PRICING SCHEDULE

Technical Requirements

(Technical Specifications refer to pg 125)

- The Telecoms Branch of the Information Services and Technology Directorate is in the process of building an optic fibre Metropolitan Area Network (MAN) to enable the City to be self-sufficient in terms of its telecommunications service requirements. A wireless network augments the optic fibre services in order to provide cost efficient telecommunication services in areas where the MAN will not extend to, or where MAN services will only reach at a much later stage.
- The Tenderer should note that the wireless links in this tender are part of the City's Metro Area Network; either as core connectivity or as access connectivity. The tenderer will have to work with multiple sections within the Telecommunications branch of IS&T and with other city departments (notably the Electricity Department) to ensure successful implementation of wireless links.
- These radio links provide connectivity to various buildings and facilities across the Cape Town metropolitan area including libraries, clinics, fire services, disaster risk management, community centres, administrative offices, depots and public facilities. The radio links provide converged telecommunication services using MPLS (Multi-Protocol Label Switching) and integrates seamlessly into the MAN in order to transport converged data, voice and video communications services.

Technical Requirements

(Technical Specifications refer to pg 125)

- The City currently has in excess of 150 Point To Point (PTP) ISM band links. The City also operates ISM band Point to Multi Point (PTMP) equipment.
- PTP and PTMP radios operating in the unlicensed spectrum are used to provide both backhaul links within the core of the MAN, and access (subscriber) links to edge sites.
- The tender comprises: -
 - Licensed band radio equipment for point to point links.
 - Unlicensed bands for point to point and point to multi-point links.
 - Network Management System for unlicensed and licensed links.
 - Supplementary equipment such as antennas and antenna mounting hardware
 - Radio planning services.
 - Installation and commissioning of wireless links
 - Support for the wireless equipment, systems and wireless links

Technical Requirements

(Technical Specifications refer to pg 125)

- The successful tenderer must demonstrate that they have the capability and capacity to execute many parallel radio projects, consisting of establishing new high sites (including both the high site facility and the radio environment), upgrading new high sites while migrating existing ISM radio services to licensed band where necessary, installing additional links to high profile internal clients or migrating the legacy routed radio links to an MPLS environment, providing services to Clinics, Safety and Security, Water Services, Libraries, Depots, and several Administration offices.
- The City requires the Tenderer to ensure that any goods ordered in this tender are to be delivered to the City within a period not exceeding 8 to 12 weeks from date of purchase order. In the case of unforeseen issues causing late delivery, it the responsibility of the Supplier to timeously inform the City if the goods ordered will not meet the contract delivery period.

MANDATORY REQUIREMENTS

2.2.1.1.4 Mandatory Requirements (Pg 8)

Item	Mandatory Requirement		Evidence
	Description	Requirement	
2.2.1.1.4.1	Please provide ICASA Type Approval Certification for the offered Licensed and Unlicensed Radio Equipment. Tenders must provide evidence as requested in the “Evidence” column of the table to meeting this requirement		Please provide evidence in Schedule 15G
2.2.1.1.4.2	The tenderer must be a currently approved partner of the original equipment manufacturer(s) of the Licensed and Unlicensed Radio equipment and systems offered (hardware and software). Tenderers must ALSO be OEM certified to support the Licensed and Unlicensed Radio equipment and systems offered (hardware and software). Please provide the required evidence e.g. a partner certification letter from each of the relevant OEMs verifying both partner status and support certification/authorisation. Tenders must provide evidence as requested in the “Evidence” column of the table to meeting this requirement		Please provide evidence in Schedule 15F



FUNCTIONAL REQUIREMENTS

2.2.1.1.4 Minimum Score for Functionality (Pg 8).

- Minimum qualifying score for functionality is **60** out of a maximum of **100** points.
 - a) Company Credibility (10 points)
 - b) Staff: Management (10 points)
 - c) Staff: Engineering/Technical (10 points)
 - d) Track Record - Licensed Band Point to Point Wireless Equipment (20 points)
 - e) Track Record - Unlicensed Band Point to Point (20 points)
 - f) Track Record - ISM Band Point to Multipoint Wireless Equipment (20 points)
 - g) Network Management System (10 points)

Pricing Schedule

(Pricing Schedule pg 31)

- It is the intention of the City to award the whole Tender and all schedule (s) in (5) Price Schedule to a Main Tenderer and a Standby tenderer, where possible. All goods and/or services will firstly be procured from the Main tenderer. Should the Main tenderer be unable to provide the goods and/or services in accordance with the provisions as stated in (7) Special conditions of contract, the goods and/or services will be procured from the Standby service provider following the necessary process as indicated in the special conditions of contract.

Pricing Schedule

(Pricing Schedule pg 31)

The schedules to be awarded are summarised below:

- **SCHEDULE A** - Licensed Band Point to Point Wireless Equipment
- **SCHEDULE B** – Unlicensed Band Point to Point and ISM Band Point to Multi Point Wireless Equipment
- **SCHEDULE C** - Network Management Systems
- **SCHEDULE D** – Ancillary Parts and Services



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Thank You

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