



BLUE CRANE ROUTE MUNICIPALITY

CONTRACT NO: FWQ 24/2022

**SUPPLY, INSTALLATION AND MAINTENANCE OF DIGITAL
TWO WAY RADIO COMMUNICATIONS INFRASTRUCTURE
FOR BLUE CRANE ROUTE MUNICIPALITY**

**ADDENDUM NO 1
08 DECEMBER 2022**

ISSUED BY:

**THE ACTING MUNICIPAL MANAGER
BLUE CRANE ROUTE MUNICIPALITY
P O BOX 21
SOMERSET EAST
5850
Contact Person: Mr M GUSH
0422436479**

FORM OF ADDENDUM NO 1

This Addendum forms integral part of the Tender and shall be incorporated into the contract. Each Tenderer shall incorporate the following omissions, amendments and/or additions to the document and Tender.

Tenderers shall acknowledge receipt and acceptance of the Addendum and submit the completed addendum with his Tender. No pages may be removed from the Addendum.

1. ADDITIONS/ AMENDMENTS AND/OR OMISSIONS

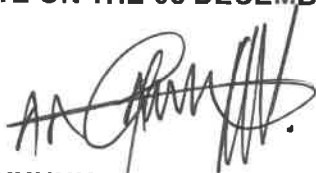
- Terms of Reference (Technical specification)
- Pricing schedule (MBD 3.1)
- Extent of work

2. EXTENDED CLOSING DATE

15 December 2022 at 12H00.

3. FWQ DOCUMENT WITH AMMENDMENTS WILL BE AVAILABLE ON THE MUNICIPAL WEBSITE ON THE 08 DECEMBER 2022 AT www.bcrm.gov.za .

Issued by:



**MS C. SIHUNU
ACTING MUNICIPAL MANAGER
67 NOJOLI STREET
SOMERSET EAST
08 DECEMBER 2022**

APPOINTMENT OF SERVICE PROVIDER FOR SUPPLY, INSTALLATION AND MAINTENANCE OF A DIGITAL TWO-WAY RADIO COMMUNICATIONS INFRASTRUCTURE (REPEATER) FOR BLUE CRANE ROUTE LOCAL MUNICIPALITY.

TERMS OF REFERENCE AND SPECIFICATIONS

SUPPLY, INSTALLATION AND MAINTENANCE OF A DIGITAL TWO-WAY RADIO COMMUNICATIONS INFRASTRUCTURE FOR BLUE CRANE ROUTE MUNICIPALITY.

BACKGROUND

Blue Crane Route Municipality requires a source of acquiring the services of a professional Two-Way Radio services provider to supply, deliver, install, and maintain a digital two-way radio communications infrastructure.

SCOPE

The acquired service provider must be able to provide a fully scalable solution that will include but not

limited to:

- a. Obtain and manage the systems licensing (ICASA)
- b. Supply and Installation of Repeater Base
- c. Provide backup power for uninterrupted power supply.
- d. Provide security to prevent vandalism of the installed equipment
- e. Train employees for controlling the system.

Extent of work

The system should be fully scalable as the completed system will be installed in a phased approach.

All BCRM surrounding areas must be covered in the first phase of the repeater installation

The exact location and position of repeater is to be verified by the successful bidder.
(Current Tower on Glen Avon Mountain)

Determination should be done in whether the Current tower (Glen Avon) should be relocated Bosberg Mountain in terms of;

- 1) accessibility,
- 2) signal strength and coverage
- 3) Security

Warranty

The employer shall not award a contract to any tenderer that does not offer warranty to the supplied equipment.

COVERAGE PREDICTIONS AND VERIFICATIONS

The contractor shall carry out a visual inspection of the repeater's location
 On completion of the installation the contractor will carry out the relevant test, complete the commissioning, data sheets as confirmation of the successful operation of the system.

Addendum

Technical Specifications – (Revised)

Additions & Corrections

Item#	ITEM	Description	Specification
1	Repeater with an Enclosure	Frequency Range	VHF: 136 -174MHz
		Channel Capacity	16
		Frequency stability	±0.5ppm
		Antenna Impedance	50Ω
		Auto Switch	Analogue and Digital
		Duty Cycle	100%
		Operating Voltage	DC:13.6V±15% AC: 100-240V
		Receiver: Analogue Digital	0.18µV(12dB SINAD) 0.16µV(Typical)(12dB SINAD)
		Transmitter: RF Power Out Adjacent Channel Power	5-50W(adjustable) 60dB @ 12.5KHz; 70dB @20/25KHz
2	FDC 160 2 stack folded dipole Antenna	Frequency Range	146 – 174 MHz
		Rated Power	150W
3	Duplexer	Frequency range	TX 154.287MHz

			RX 147.2375Mhz
4	Solar Panel	OUTPUT	260W
5	MPPT Solar Charger Controller with an enclosure	Size	30A
6	S-100A Lithium-Ion LiFePO4 Battery with an Enclosure (2-year Warranty)	Rated Capacity Nominal Voltage	100Ah
		Nominal Voltage	12V

**PRICING SCHEDULE – FIRM PRICES
(PURCHASES)**

NOTE: ONLY FIRM PRICES WILL BE ACCEPTED. NON-FIRM PRICES (INCLUDING PRICES SUBJECT TO RATES OF EXCHANGE VARIATIONS) WILL NOT BE CONSIDERED
IN CASES WHERE DIFFERENT DELIVERY POINTS INFLUENCE THE PRICING, A SEPARATE PRICING SCHEDULE MUST BE SUBMITTED FOR EACH DELIVERY POINT

Name of Bidder.....	Bid Number.....
Closing Time	Closing Date

OFFER TO BE VALID FOR.....DAYS FROM THE CLOSING DATE OF BID.

Supply, Installation and Maintenance of a Digital Two Radio communications Infrastructure listed below.

ITEM#	UNIT	Description	Total
1	1	Repeater with an Enclosure	
2	1	FDC 160 2 stack folded dipole Antenna	
3	1	Duplexer	
4	1	260W Solar Panel	
5	1	30A MPPT Solar Charger Controller with enclosure	
6	1	S-100A Lithium-Ion LiFePO4 Battery with Enclosure (2-year Warranty)	
SUB-TOTAL			
VAT			
TOTAL			

- Required by:
- At:
- Does the offer comply with the specification(s)? *YES/NO
- If not to specification, indicate deviation(s)
- Period required for delivery
- *Delivery: Firm/Not firm
- Delivery basis

Note: All delivery costs must be included in the bid price, for delivery at the prescribed destination.
 ** "all applicable taxes" includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies.

*Delete if not applicable