



Knysna Municipality is inviting quotations from suitable suppliers for the goods described below. Category – Electrical

(For publication on the Knysna Municipality website & notice boards)

ADVERTISEMENT DATE:	18 September 2015
RFQ NUMBER:	70/2015/16
DESCRIPTION OF GOODS/SERVICES:	Supply and delivery of Digital Portable (TDMA) DP4801 Radios
RFQ DOCUMENTS ARE OBTAINABLE FROM:	Supply Chain Management Section Clyde Street Knysna or Knysna Municipality website: www.knysna.gov.za (Council adverts >Quotations)
CLOSING DATE: TIME:	Friday 02 October 2015 12h00
SUBMISSIONS:	Sealed quotations clearly marked, “ RFQ 70/2015/16: Supply and delivery of Digital Portable (TDMA) DP4801 Radios ”, can be submitted: By hand to: Supply Chain Management Section Knysna Municipality Clyde Street Knysna By fax to: 086 650 1415 By email to: procurement@knysna.gov.za Contact person: Sandra Fourie (Tel: 044 302 6328) Electronic bid documents must reach the Supply Chain Management Section before the closing time.
COMPULSORY REQUIREMENTS:	KMBD6.1 forms must be completed.
TECHNICAL ENQUIRIES:	Department : Electrical/Mechanical Contact Person : Joseph James E-mail : james@knysna.gov.za Tell : 044 302 6392

The following conditions will apply:

- Price(s) quoted must be valid for at least thirty (30) days from date of your offer.
- Price(s) quoted must be firm and must be inclusive of VAT when applicable.
- Attached KMBD6.1 must be completed to qualify for B-BBEE Status Level of Contribution.
- Tax Clearance Certificate or Sufficient Evidence that Tax matters are raised with SARS must be attached.
- An original or certified copy of B-BBEE Certificate must be attached to qualify for points.
- Price must include all related expenses, i.e. transport, accommodation etc.
- Attached KMBD 4 document must be completed.
- Status of Municipal accounts must be submitted.
- All invoices and statements must reflect the order number.
- Bidders must insist on an Official order.
- Only an official order and appointment letter will bind the Council.

**MUNICIPAL MANAGER
GS EASTON**



RFQ 70/2015/16

1. Introduction

The Digital Radio System as specified in this document is intended to meet the communication requirements and coverage of personnel and entities for the Disaster Management Communications Centre, Fire and Traffic services of the Knysna Municipality.

Note: The equipment must be fully compliant with the Knysna Municipality existing Digital Radio Network.

2. General Requirement

This part of the specifications deals with general requirements to be met and standards for plant and workmanship. "Plant" is defined as equipment, apparatus, materials, articles and things of all kinds to be provided under the contract.

The Contractor shall during the continuance of the contract keep the Knysna Municipality well and sufficiently informed regarding the progress of the system. All standard and codes of practice regarding ICASA regulations must be followed. During the defects liability period, the contractor shall carry out full maintenance operation if required to maintain it in full and correct operation. The Contractor shall guarantee to the Employer the material, equipment and workmanship delivered by him for a period of 12/24 months. Fair wear and tear and Act of God is excluded for the guarantee. All radio equipment offered must be of high quality and durable for maximum operation in our environments.

3. Key Requirements

Apply for ICASA license on behalf of the customer. **(if required)** Aesthetic housing structure must be erected/supply **(if required)** to house the electronic equipment.

4. TDMA Radio Specifications

Below find the specifications of the existing equipment being used in the Disaster Management Centre and Fire/Traffic Services within the area of the Knysna Municipality. All of the radio equipment currently used is Motorola DMR products. Any offers must comply with the minimum standards of the existing DMR (TDMA) equipment as set out below and be able to fully integrate with the existing equipment and systems.

4.1 General Digital Portable (TDMA) Radio Specifications

Channel Capacity 1000

Frequency 136-174 MHz (VHF)

Dimensions (HxWxL) with Lilon HiCap Battery 2250mAH 131.5 x 63.5 x 39.2 mm

Weight with Lilon HiCap Battery 375 g

Power Supply 7.2V nominal

Average battery life at 5/5/90 duty cycle with battery saver enabled in carrier squelch and transmitter in high power.

IMPRES Lilon HiCap Battery Analogue: 13.5hrs / Digital: 19 hrs

4.2 RECEIVER

Frequency 136-174 MHz (VHF)

Channel Spacing 12.5 kHz/ 20 kHz/ 25 kHz

Frequency Stability +/- 1.5 ppm (DP 3600) (-30° C, +60° C, +25° C) +/- 0.5 ppm (DP 3601)

Analogue Sensitivity 0.35 uV (12 dB SINAD) 0.22 uV (typical) (12 dB SINAD) 0.4 uV (20 dB SINAD)

Digital Sensitivity 5% BER: 0.3 uV

Intermodulation 65 dB

Adjacent Channel Selectivity 60 dB @ 12.5 kHz, 70 dB @ 20/25 kHz

Rated Audio 500 mW

Audio Distortion @ Rated Audio 3% (typical)

Hum and Noise -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz

Audio Response +1, -3 dB

Conducted Spurious Emission -57 dBm

4.3 TRANSMITTER

Frequency 136-174 MHz (VHF)

Channel Spacing 12.5 kHz/ 20 kHz/ 25 kHz

Frequency Stability +/- 1.5 ppm (DP 3600) (-30° C, +60° C, +25° C) +/- 0.5 ppm (DP 3601)

Power Output VHF 1W and 5 W

Modulation Limiting +/- 2.5 kHz @ 12.5 kHz 33 +/- 4 kHz @ 20 kHz

FM Hum and Noise -40 dB @ 12.5 kHz -45 dB @ 20/25 kHz

Conducted / Radiated Emission -36 dBm < 1 GHz -30dBm > 1GHz

Adjacent Channel Power -60 dB @ 12.5 kHz -70 dB @ 20/25 kHz

Audio Response +1, -3 dB

Audio Distortion 3%

Digital Vocoder Type AMBE+2

Digital Protocol ETSI-TS 102 361-1, 2 & 3

4.4 GPS (no external devices)

Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal -130 dBm signal strength)

TTFF (Time To First Fix) Cold Start < 2 minutes

TTFF (Time To First Fix) Hot Start < 10 seconds

Horizontal Accuracy < 10 meters

Supports Bluetooth

4.5 ENVIRONMENTAL SPECIFICATIONS

Operating Temperature* -30° C / +60° C

Storage Temperature -40° C / +85° C

Temperature Shock Per MIL-STD

Humidity Per MIL-STD

Water Intrusion EN60529 - IP57

Packaging Test MIL-STD 810D and E

* With Lilon battery, operating temperature specification is -10° C / +60° C.

4.6 MILITARY STANDARDS

810E 810F

Applicable MIL-STD Methods Procedures Methods Procedures

Low Pressure 500.3 II 500.4 II

High Temperature 501.3 I/A, II/A1 501.4 I/Hot, II/Hot

Low Temperature 502.3 I/C3, II/C1 502.4 I/C3, II/C1

Temperature Shock 503.3 I/A, 1C3 503.4 I

Solar Radiation 505.3 I 505.4 I

Rain 506.3 I,II 506.4 I, III

Humidity 507.3 II 507.4 -

Salt Fog 509.3 I 509.4 I

Dust 510.3 I 510.4 I

Vibration 514.4 I/10, II/3 514.5 I/24

Shock 516.4 I, IV 516.5 I, IV5.

5. Bill of Quantities

5.1 Digital (TDMA) Portable Radio Equipment

Item No.	Description/ Specification	Qty	Unit Price		Amount	
			R	C	R	C
1	Digital (TDMA) Keypad Portable Radios with heavy duty battery and GPS as per specification or similar and compatible to current system	1				

5.2 Installation, Travelling, Accommodation

Item No.	Description	Qty	Amount per rate	
			R	C
1	Installation/ Setup	Sum		
2	Travelling	sum		
3	Accomadation	sum		

5.3 Summary

Description	Amount (Rand)
Digital (TDMA) Portable Radio Equipment	
Installation	
Sub Total	
14% VAT(IF VAT REGISTERED)	
TOTAL	

Contact Details of Tenderer

The name of the Tenderer is

The name of the contact person is

The address of the Tenderer is:

Telephone: _____

Facsimile: _____

E-mail: _____

Address (physical): _____

Address (postal): _____



KMBD 6.1

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2011

This preference form must form part of all bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2011.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R1 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R1 000 000 (all applicable taxes included).

1.2 The value of this bid is estimated not to exceed R200 000 (all applicable taxes included) and therefore the 80/20 system shall be applicable.

1.3 Preference points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contribution.

1.3.1 The maximum points for this bid are allocated as follows:

	POINTS
1.3.1.1 PRICE80.....
1.3.1.2 B-BBEE STATUS LEVEL OF CONTRIBUTION20.....
Total points for Price and B-BBEE must not exceed	100

- 1.4 Failure on the part of a bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System (SANAS) or a Registered Auditor approved by the Independent Regulatory Board of Auditors (IRBA) or an Accounting Officer as contemplated in the Close Corporation Act (CCA) together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.
- 1.5 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- 2.1 **“all applicable taxes”** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 2.3 **“B-BBEE status level of contributor”** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- 2.5 **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- 2.6 **“comparative price”** means the price after the factors of a non-firm price and all unconditional discounts that can be utilized have been taken into consideration;
- 2.7 **“consortium or joint venture”** means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract;
- 2.8 **“contract”** means the agreement that results from the acceptance of a bid by an organ of state;
- 2.9 **“EME”** means any enterprise with an annual total revenue of R5 million or less.
- 2.10 **“Firm price”** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs or excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 **“functionality”** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 **“non-firm prices”** means all prices other than “firm” prices;
- 2.13 **“person”** includes a juristic person;

- 2.14 “**rand value**” means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.15 “**total revenue**” bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act and promulgated in the *Government Gazette* on 9 February 2007;
- 2.16 “**trust**” means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.17 “**trustee**” means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The bidder obtaining the highest number of total points will be awarded the contract.
- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts;.
- 3.3 Points scored must be rounded off to the nearest 2 decimal places.
- 3.4 In the event that two or more bids have scored equal total points, the successful bid must be the one scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more bids have scored equal points including equal preference points for B-BBEE, the successful bid must be the one scoring the highest score for functionality.
- 3.6 Should two or more bids be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR PRICE

4.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 \\
 P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) & \text{or} & P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)
 \end{array}$$

Where

- P_s = Points scored for comparative price of bid under consideration
- P_t = Comparative price of bid under consideration
- P_{min} = Comparative price of lowest acceptable bid

5. Points awarded for B-BBEE Status Level of Contribution

- 5.1 In terms of Regulation 5 (2) and 6 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	8	16
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

- 5.2 Bidders who qualify as EMEs in terms of the B-BBEE Act must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for IRBA's approval for the purpose of conducting verification and issuing EMEs with B-BBEE Status Level Certificates.
- 5.3 Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 5.4 A trust, consortium or joint venture, will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.
- 5.5 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 5.6 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.

6. BID DECLARATION

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED IN TERMS OF PARAGRAPHS 1.3.1.2 AND 5.1

7.1 B-BBEE Status Level of Contribution... = (Maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 5.1 and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SANAS or a Registered Auditor approved by IRBA or an Accounting Officer as contemplated in the CCA).

8 DECLARATION WITH REGARD TO COMPANY/FIRM

8.1 Name of company/firm :

8.2 VAT registration number :.....

8.3 Company registration number :

8.4 TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One person business/sole propriety
- Close corporation
- Company
- (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....
.....
.....

8.6 COMPANY CLASSIFICATION

- Manufacturer
- Supplier
- Professional service provider
- Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business?

8.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution indicated in paragraph 7 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct;
- (ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- (iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 7, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- (iv) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation
 - (d) restrict the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution

WITNESSES:

1.

.....
SIGNATURE(S) OF BIDDER(S)

2.

DATE:.....

ADDRESS:.....

KMBD 4

DECLARATION OF INTEREST

1. No bid will be accepted from persons in the service of the state¹.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 3.1 Full Name of bidder or his or her representative:
 - 3.2 Identity Number:
 - 3.3 Position occupied in the Company (director, trustee, hareholder²):
 - 3.4 Company Registration Number:
 - 3.5 Tax Reference Number:
 - 3.6 VAT Registration Number:
 - 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state? **YES / NO**
 - 3.8.1 If yes, furnish particulars.
.....

¹MSCM Regulations: "in the service of the state" means to be –

- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
- (b) a member of the board of directors of any municipal entity;
- (c) an official of any municipality or municipal entity;
- (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
- (e) a member of the accounting authority of any national or provincial public entity; or

(f) An employee of Parliament or a provincial legislature.

² Shareholder” means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

3.9 Have you been in the service of the state for the past twelve months? **YES / NO**

3.9.1 If yes, furnish particulars.....

.....

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.10.1 If yes, furnish particulars.

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

3.11.1 If yes, furnish particulars

.....
.....

3.12 Are any of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars.

.....

3.13 Are any spouse, child or parent of the company’s directors trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars.

.....
.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. **YES / NO**

3.14.1 If yes, furnish particulars:

.....

4. Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	State Employee Number

.....
Signature

.....
Date

.....
Capacity

.....
Name of Bidder