



# HARRY GWALA DISTRICT MUNICIPALITY

"Together We Deliver and Grow"

## OFFICE OF THE MUNICIPAL MANAGER

40 Main Street, Private Bag X501, IXOPO 3276

Tel: (039) 834 8707 Fax: (039) 834 1701

E-mail: [kunenes@harrygwalaadm.gov.za](mailto:kunenes@harrygwalaadm.gov.za)

### ADVERTISEMENT

#### REQUEST FOR FORMAL WRITTEN PRICE QUOTATIONS

Harry Gwala District Municipality hereby requests quotations from suitably experienced services providers for supply and delivery of GPS UNITS

#### SPECIFICATION/SCOPE

- 3 X GPS UNITS

| Criteria         | Minimum Requirement  | Complied/Not | Remarks |
|------------------|--|--------------|---------|
| Operating System | Embedded Linux Kernel Ver.3.0 (LTSI) or Higher   |              |         |
| Processor        | ARM Cortex-A8 processor  |              |         |
| Processor Core   | Min.1 GHZ  |              |         |
| RAM              | Min. 512 MB  |              |         |
| Internal Memory  | Min. 1 GB  |              |         |
| External Storage | Min. 8GB SSD   |              |         |
| Display          | A. Size 5 inch or more, TFT<br>B. True Colour, Transmissive<br>C. Sunlight readable high-bright display with Corning Gorilla Glass or similar Enclosure<br>D. FSTN Backlighting Enabled<br>E. Display must not Degrade or Fade on Prolonged Use.<br>F. Min. Resolution: 800x480 Pixel. |              |         |
| Position Format  | Latitude & Longitude having all option of display in Degree, Minute & Second, Degree Decimal, UTM and other Grids including user defined grids.  |              |         |
| Constructions    | A. 6 Feet Drop Resistant<br>B. Dust Proof, Ports are adequately Protected.<br>C. Fully gasketed, IP 65 Complaint/Waterproof/Water-resistant<br>D. Ergonomic Form Factor  |              |         |

|                         |   |  |  |
|-------------------------|---|--|--|
|                         | E. Protective Casing of high impact plastic alloy with rubberized exterior padding. |  |  |
| Operating Conditions    | -10 to 60 Deg. Celsius, Up to 95% Humidity (Non-Condensing)                         |  |  |
| PC Connection/Interface | USB and Mini USB with NMEA, RTCM 104 DGPS Data Format, RS232 with NMEA.             |  |  |

| <b>GPS Performance:</b> |  |  |  |
|-------------------------|--|--|--|
| GPS Receiver            | <p>A. High Sensitivity &amp; High performance GPS Receiver on U-BLOX M8/SIRF Prima II/ SiRFstarIV/ SiRFstarV Grade Chipsets having integrated SBAS Support.</p> <p>B. SBAS Enabled.</p> <p>C. 16 parallel channel or more</p> <p>D. RECEIVER: L1, C/A</p> <p>E. GPS Receiver Continuously track and uses up to 16 Satellite to compute and update position in addition to the GAGAN Signal.</p> <p>F. It must capture and utilize GAGAN Signal as DGPS Correction as and when available.</p> <p>G. Clear display of DGPS Symbol or Icon when SBAS DGPS Correction is Carried Out by the device.</p> <p>H. Display of Satellite Signal Strength</p> <p>I. GAGAN SBAS supported DGPS Correction, with NMEA Format GPS Data Output.</p> <p>J. Should support most widely used 100 Datums.</p> |  |  |
|                         | K. SI Units Supported  |  |  |
| Acquisition Time        | <p>Warm: 15 second Approx.</p> <p>Cold: 45 second Approx.</p> <p>Locat</p> <p>Auto e: 5 minutes Approx.</p>  |  |  |
| Update Rate             | 1 Second, Continuous   |  |  |
| Waypoints               | > 1000 with names and graphic symbol, >10 nearest (automatic), >10 proximity   |  |  |
| Routes                  | > 50 reversible routes with up to 50 points each, plus MOB & Track Back Mode.  |  |  |
| Tracks                  | Automatic Track log; >10 saved Tracks; retrace your path in both direction.  |  |  |
| Alarm                   | Approach & Arrival, Off-   |  |  |

|   |              |  |  |  |
|---|--------------|--|--|--|
|   |              | Course, Proximity Waypoint, Low Battery, High Temperature etc.   |  |  |
| SBAS Accuracy & DGPS                      |              | Position: < 3 Meter, 95% typical<br>Velocity : 0.05 meter/sec steady state<br>Must Receive GAGAN Signal PRN 127 & 128 as and when available<br>GAGAN Signal Display Icon |  |  |
| Antenna                                   |              | Built-in Quadrifilar Helix/Internal  |  |  |
| Battery                                   |              | Internal Rechargeable .lion 3.7 V, 8000 mAh<br>Battery Life: Min.8-10 hours  |  |  |
| USB                                       |              | At least one standard USB port   |  |  |
|   |              |  |  |  |
| Keypad                                    |              | Physical 4 keys + virtual Keypad   |  |  |
| Camera                                    |              | Integrated embodied back Camera, Minimum 5 MP auto focus with LED Flash, Auto Geo tagging support. GPS & Time Stamp on the Photos  |  |  |
| Device Setting and Application Management | Control, and | Should Support Min.20 Embedded Apps for various Land Base, Mobile GIS, Dashboard Analysis Activity Data Collection.  |  |  |

|                               |   |  |  |
|-------------------------------|---|--|--|
|                               | Provision of Server side web based software interfacing with the GPS device for data transfer and onboard software/firmware updates |  |  |
|                               | Provision to Lock the Administrator defined default settings of the device. (Default/User or Admin defined Setting Lock)            |  |  |
|                               | Protection of Software Installation & Delete through a Password Locking Provision for the Administrator.                            |  |  |
| <b>Weight</b>                 | Less than 600 grams including Battery   |  |  |
| <b>Accessories</b>            | Data downloading cable (Original), Carry Case, User Manual, And Training Video CD.  |  |  |
| <b>Software / Application</b> | <b>Development Requirements</b>   |  |  |
|                               | Embedded software on the Device for ESRI suite GIS Data Collection  |  |  |
|                               | Web Application for Web Server Side Integration with GPS for dynamic analysis, Query & reports.                                     |  |  |
|                               | Web Application hosting for ArcGIS server and Mobile GIS enabled system for data capture (i.e. Survey 123, ArcGIS Collector etc.)   |  |  |
|                               | Training & Deployment of devices along with software/ Application   |  |  |

**Invalid or non-submission of the following documents will lead to Immediate disqualification of the tender:**

- Central Supplier database registration
- A signed MBD4 form must be submitted with all Bids (available on our website and reception).
- ID copies of company directors
- Shareholders certificate
- Company registration

The following conditions will apply:

- Valid tax clearance certificate or SARS pin
- Prices quoted must be firm and must be inclusive of VAT (if applicable).
- All quotations submitted shall be valid for 30 days after the tender closing date.
- Your company must be registered on municipal database and central supplier database.
- 80/20 Preference points system will be used In Evaluation.

| <b>Specific goals</b>   | <b>Number of points 80/20</b> | <b>Verification</b>  |
|---|-------------------------------|--|
| Business enterprise which is > 51% owned by black people      | 20                            | Sworn affidavit-QSE/EME general and bank confirmation letter, detailed CSD |
| Business enterprise which is < 50% -40% owned by black people | 10                            | Sworn affidavit-QSE/EME general and bank confirmation letter ,detailed CSD |
| Business enterprise which is < 40% owned by black people      | 5                             | Sworn affidavit-QSE/EME general and bank confirmation letter, detailed CSD |

## **CLOSING DATE**

The closing date for the bidders is on <sup>21</sup>..... April 2023 at 12h00. Bids must be enclosed in **SEALED ENVELOPES** and clearly labelled with the **"SUPPLY AND DELIVERY OF GPS UNITS"** on the outside of the envelopes addressed to **The Municipal Manager**.

Bids must be deposited in the Bid Box at the reception area of Harry Gwala District Municipal, 40 Main Street, Ixopo, before the closing date and time. Telegraphic, telexed or faxed bids will not be considered and late bids will not be accepted.

Harry Gwala District Municipality does not bind itself to accept the lowest or any Bid and reserves the right to accept the whole or any part of the Bid.

## **BID ENQUIRIES**

All tender enquiries and all other matters shall be directed to **Mr L Zondi** on 039 834 8700 during working hours.



**GM SINEKE**

**Municipal Manager**