

## TENDER DATA

|                       |  |
|-----------------------|--|
| <b>Project title:</b> | <b>Appointment of Service Provider for supply and delivery of GPS Clocks and related components for a period of three (3) years.</b> |
| <b>Bid no:</b>        | <b>SENT/011/2022-23</b>  |

### 1. BACKGROUND

SENTECH is a state-owned company and is the largest broadcasting signal distributor in South Africa. SENTECH is a licensed Electronic Communications Network Service provider in South Africa. It currently operates many telecommunication networks for Satellite, Television, Radio, Internet and more. As such, SENTECH is a global enabler of broadcasting and digital content delivery.

SENTECH owns and operates inter alia, a number of national terrestrial television and FM radio transmitter networks and is also involved in trailing the digital radio (DAB+) technology. SENTECH is currently migrating to D2D DVB-T2 digital network platform. To this end SENTECH requires the service provider for supply and delivery of GPS Clocks for a term contract of three years to supply and deliver good on an as and when required basis.

### 2. SUBMISSION OF BIDS and CLOSING

This Bid closes at the stipulated date and time as stated in SBD 1 Notice and Invitation to Bid. Bids must be submitted by hand to the Bid Administrator at SENTECH, Octave Road, Radiokop Ext 3, Honeydew, Johannesburg.

Bidders that choose to submit their bid documents before the closing date and time may do so during working hours only (08:30-15:30).

It is the Bidder's responsibility to ensure that their bid submissions reach the Bid Administrator before the bid closing time as no late submissions will be accepted.

Telegraphic, telephonic, telex, facsimile, e-mail and late Bids will not be accepted. Proposals may be opened in public. Bidders will be advised of the outcome by letter or e-mail.

This is a two-envelope system for Bid Evaluation. Bidders must submit their proposal and all supporting documentation in a sealed envelope, clearly marked as follows:

**Envelope One** "Original Technical Proposal" together with a soft copy in PDF format of an electronic medium e.g. USB etc. The envelope must contain all information and documents relating to the Bid. (Refer to list of returnable documents).

**No Financial Information must be included in Envelope 1.**

**Envelope Two** "Original Financial Proposal" (Contract Data and Pricing schedule/schedule of rates as applicable) together with a soft copy in PDF format of an electronic medium e.g. USB etc.

Bidders are required to place the sealed **Envelope 1** together **with** the sealed **Envelope 2** into one sealed envelope or container. The sealed envelope or container must be marked with the following information:

- **For Attention**
- **HEAD OF SUPPLY CHAIN MANAGEMENT**
- **BID REFERENCE NO: SENT/004/2022-23**
- **TECHNICAL AND FINANCIAL PROPOSALS**
- **INSERT CLOSING DATE AND TIME**
- **BIDDER'S NAME AND ADDRESS**

The financial proposal will only be opened and evaluated should the technical proposal be found to be responsive, being that the technical proposal has met the minimum technical evaluation criteria that are set out in the Bid Documents.

The Bidders shall insert a table of contents and bind (ring bind or similar method) the proposal documents and verify the page numbers, as SENTECH will not accept any liability with regard to any disputes arising from pages that are missing or duplicated in the aforementioned documents.

Bidders are required to complete and sign all the returnable documentation (refer to list of returnable documents) and initial all pages, drawings and brochures which are included in the reply as SENTECH will not accept any liability with regard to any disputes arising from pages that are missing or duplicated in the aforementioned documents.

Late submissions will not be considered.

### **3. SIGN AND INITIAL**

Bidders are required to complete and sign the Bid Forms where required and initial the bottom of all pages, drawings and brochures which are included in the submission as SENTECH will not accept any liability with regard to any disputes arising from pages that are missing or duplicated in the aforementioned documents.

### **4. COMPLETION OF BID DOCUMENTS**

Bidders must ensure that they complete all sections of the Bid Documents as per the requirements in the Bid.

Bidders must use only the Bid documents provided by SENTECH. Photocopying of the Bid document is permitted however Bidders must not re-type or re-draft the Bid documents.

### **5. COSTS OF PREPARING THE BID SUBMISSION**

Bidders shall bare all costs associated with the preparation and submission of the proposals. SENTECH shall under no circumstances be held responsible or liable for any costs incurred during the bidding process.

### **6. EVALUATION CRITERIA**

The evaluation criteria are stipulated in **14 below**. It is the Bidder's responsibility to ensure that it has responded to the evaluation criteria. Failure to meet the evaluation criteria will result in the Bidder not being evaluated further. Bidders must ensure that they have included all supporting documentation required to support their response to the Bid.

### **7. BRIEFING SESSION**

Should there be a compulsory briefing session for this Bid, Bidders must ensure that they attend the briefing session and sign the attendance register, as non-attendance or failure to sign the attendance register will automatically disqualify a Bidder from submitting a proposal for this Bid.

All questions raised by Bidders post the briefing session will be consolidated and shared with all Bidders at least seven (7) calendar days prior to closing.

## 8. LOCAL PRODUCTION AND CONTENT

In the case of designated sectors, where in the award of Bids, local production and content is of critical importance, such Bids will contain a specific bidding condition that only locally produced goods, services or works or locally manufactured goods, with a stipulated minimum threshold for local production and content will be considered.

|  |            |            |
|--|------------|------------|
| Does this requirement fall under any designated sector as prescribed by the DTI? | <b>Yes</b> | <b>No</b>  |
| If yes, specify the sector   | <b>N/A</b> | <b>N/A</b> |
| Specify minimum threshold applicable   | <b>N/A</b> | <b>N/A</b> |

**\*Bidders must fill in the SBD6.2 for Local Content and Production**

## 9. CLARIFICATION

Enquiries related to Bid documents may be addressed to the Bid Administrator and Supply Chain Official as stated in SBD 1 Notice and Invitation to Bid.

## 10. BID EVALUATION METHOD

This Bid will be evaluated as described in the table below.

|   |  |
|---|--|
| <b>Two envelope system will be followed for Technical and Price offer</b> | <b>Stage 1 – Administrative Responsiveness Evaluation</b>  |
|   | All the Technical Proposals will be evaluated against the <b>administrative responsiveness requirements</b> as set out in the list of returnable documents.  |
|   | <b>Stage 2 –Technical Evaluation</b>   |
|   | Total minimum qualifying functional score is 70 points out of 100 points. A Bidder must score more than 0 points in each criterion to be evaluated further   |
|   | <b>Stage 3 – Price and Preference</b>  |
|   | Financial Proposals for Qualifying Bidders will be opened and evaluated. Bidder's financial offers and BEE certificates will be ranked according to price and preference points from the highest number of points to the lowest. |

## 11. ADMINISTRATIVE RESPONSIVENESS REQUIREMENTS

To be administratively responsive, Bidders must ensure that they meet all the below mentioned criteria. Bidders that do not meet all the below mentioned criteria may not qualify to be awarded the Bid. SENTECH reserves its rights in respect of the below criteria.

- Complete and return all documentation stipulated in the LIST OF RETURNABLE DOCUMENTS.
- All correspondence must be in English.
- Bidders must fill in all sections of this document (where applicable).
- **BLACK INK** must be used when completing the Bid documents.
- All corrections must be initialed. The use of corrective fluid is strictly prohibited.
- Bidders must use only the Bid documents provided by SENTECH. Photocopying of the Bid document is permitted however Bidders must not retype or redraft the Bid documents.
- Bidders are required to fill in and sign the Bid Forms and initial all pages, drawings and brochures which are included in the reply as SENTECH will not accept any liability with regard to any disputes arising from pages that are missing or duplicated in the aforementioned documents.
- Bidders must complete an attendance register at each compulsory site meeting attended.
- Appointment of a Bidder will be subject to signing, declaration and submission of SBD 1,2, 3.1, 3.2, 3.3, 4, 5, 6,2, 8, and 9 depending on applicability.

- Complete and sign the Contract Data.
- Should this be a 2 envelope or 2 stage system, Bidders MUST separate the technical proposal from their financial proposal. The technical and financial proposals must be placed in two separate sealed envelopes.
- Bidders are required to ensure that they meet all the Administrative Responsiveness Criteria.

## 12. AUTOMATIC DISQUALIFICATION

SENTECH reserves the right to automatically disqualify Bidders from being awarded this Bid. The following will lead to automatic disqualification:

- Failure to submit a financial proposal, if required.
- The Bidder is or has been involved in any act of corruption or fraud or bribery or collusion or attempt to influence any employee of SENTECH to award this Bid or any other Bid to it.

## 13. TECHNICAL RESPONSIVENESS COMPLIANCE

The Technical Evaluation will encompass evaluation of:

- Mandatory Criteria
- Technical Criteria

## 14. TECHNICAL EVALUATION CRITERIA

### 14.1 Mandatory Eligibility Criteria

The following criteria are mandatory to ALL BIDDERS:

| Item No. | Mandatory Eligibility Criteria   | Attach evidence and provide reference page number in your proposal       |
|----------|--|--|
| 1        | Dual redundant GPS receiver configuration with automatic switchover as illustrated in annexure A (GPS Design), complete with power supply in redundant configuration.  | Specification or datasheet stating the compliance with the requirements. |
| 2        | Each unit to be supplied with a single active antenna with compatible splitter and lightning protection kit, including inline surge arrestors and mounting hardware as illustrated in annexure A (GPS Design). | Specification or datasheet stating the compliance with the requirements. |
| 3        | Receiver must be capable of tracking 12 parallel channels.   | Specification or datasheet stating the compliance with the requirements. |
| 4        | Receiver to be equipped with TCP/IP management port with SNMPv2 support.   | Specification or datasheet stating the compliance with the requirements. |
| 5        | Equipment must be controlled through web interface.  | Specification or datasheet stating the compliance with the requirements. |
| 6        | Power Supply: 230V 50Hz AC +/- 10%.  | Specification or datasheet stating the compliance with the requirements. |
| 7        | Operating Temperature shall be in the range between 0°C to +40°C or wider.   | Specification or datasheet stating the compliance with the requirements. |
| 8        | Operating Humidity: 90% non-condensing or more   | Specification or datasheet stating the compliance with the requirements. |
| 9        | Output Signal: 10 MHz sine wave $\geq -5\text{dBm}$ and $\leq +20\text{dBm}$ level   | Specification or datasheet stating the compliance with the requirements. |
| 10       | No of Frequency Reference Outputs: $\geq 8 \times \text{BNC } 50 \Omega$ as illustrated in annexure A (GPS Design).  | Specification or datasheet stating the compliance with the requirements. |
| 11       | Stability: $1 \times 10^{-11}$ daily average or better   | Specification or datasheet stating the compliance with the requirements. |

| Item No. | Mandatory Eligibility Criteria   | Attach evidence and provide reference page number in your proposal       |
|----------|--|--|
| 12       | Frequency Accuracy: 1x10 <sup>-11</sup> .or better   | Specification or datasheet stating the compliance with the requirements. |
| 13       | Holdover Drift:1x10 <sup>-9</sup> /day. or better.   | Specification or datasheet stating the compliance with the requirements. |
| 14       | Phase Noise @ 100Hz:- 135dBc/Hz or better.   | Specification or datasheet stating the compliance with the requirements. |
| 15       | 1 PPS Output Signal: square wave. TTL  | Specification or datasheet stating the compliance with the requirements. |
| 16       | No of Timing Reference Outputs: ≥ 8 x BNC 50 Ω, as illustrated in annexure A (GPS Design). | Specification or datasheet stating the compliance with the requirements. |
| 17       | Timing Accuracy: 100ns peak or better  | Specification or datasheet stating the compliance with the requirements. |
| 18       | Holdover Drift: ±10μs (2 hour without GPS).  | Specification or datasheet stating the compliance with the requirements. |
| 19       | Equipment Dimensions: 1RU (19"rack).   | Specification or datasheet stating the compliance with the requirements. |
| 20       | Receiver must have GPS referenced NTP server available on the management port.             | Specification or datasheet stating the compliance with the requirements. |

**NOTE: Bidders that do not comply with all the above criteria will not be evaluated further.**

#### 14.2 Functional Criteria

| No. | Functional Criteria  | Maximum Points | Documents required   |
|-----|--|----------------|--|
| 1.  | <b>GPS Antenna Input Connector:</b> <ul style="list-style-type: none"> <li>N Female, 50 ΩGPS Antenna Input Connector = <b>0 Points</b></li> <li>Any type of female with N type adapter, 50 Ω = <b>10 Points</b></li> <li>N Female, 50 ΩGPS Antenna Input Connector = <b>20 Points</b></li> </ul>   | 20             | Specification or Datasheet stating the compliance with the requirements. |
| 2.  | <b>Support and Maintenance:</b> <ul style="list-style-type: none"> <li>No Support = <b>0 Points</b></li> <li>International Support = <b>10 Points</b></li> <li>Local Support = <b>20 Points</b></li> </ul>   | 20             | Proof of support from supplier   |
| 3   | <b>Equipment warranty</b> <ul style="list-style-type: none"> <li>Less than 24 months = <b>0 Points</b></li> <li>24 months = <b>10 Points</b></li> <li>36 months = <b>20 Points</b></li> </ul>  | 20             | Letter from OEM stating the duration of the warranty                     |
| 4   | <b>Company Experience (Provide company profile and details of the experience in your submission for the supply and delivery of GPS Clocks)</b> <ul style="list-style-type: none"> <li>Less than 3 years of experience = <b>0 points</b></li> <li>Between 3 and 5 years of experience = <b>10 points</b></li> <li>More than 5 years of experience = <b>20 points</b></li> </ul> | 20             | Attach Company Profile   |
| 5   | <b>Contactable Projects References in supply and delivery of GPS Clocks consulting services: Complete the table below and attach reference letters.</b> <ul style="list-style-type: none"> <li>Less than 3 references = <b>0 points</b></li> <li>Between 3 and 5 years of experience = <b>10 points</b></li> <li>More than 5 years of experience = <b>20 points</b></li> </ul> | 20             | Complete the table below   |

|              |                   |
|--------------|-------------------|
| <b>Total</b> | <b>100 Points</b> |
|--------------|-------------------|

**Table 1: Functional Criteria**

Total minimum qualifying functional score is **70** points. A Bidder must score more than 0 points in each criterion to be evaluated further.

**NOTE: Bidders qualifying under functional criteria will be required to supply a sample unit for lab/site testing for a minimum of two weeks, failure to do so bidders will be disqualified.**

**15. Evaluation of Price and Preference**

This Bid will be evaluated on a points system based on weighted average score for Price and Preference as per Preferential Procurement Framework Act of 2000 (Act 5 of 2000).

**16. Preference Point allocation – 80/20**

| Price / Preference       | Weighting percentage |
|--------------------------|----------------------|
| <b>Preference:</b>       | <b>20%</b>           |
| <b>Price:</b>            | <b>80 %</b>          |
| <b>Total must equal:</b> | <b>100%</b>          |

| 80/20-point scoring system             |                  |                          |                     |
|--|------------------|--------------------------|---------------------|
| Preference: 20 Points                  |                  | Price: 80 points         |                     |
| Other: B-BBEE Status Level Contributor |                  |                          |                     |
| B-BBEE Level                           | Number of Points | Price:                   | 100 % (of 80)       |
| 1                                      | 20               | Quality / Functionality: | 0 % (of 80)         |
| 2                                      | 18               |                          |                     |
| 3                                      | 14               |                          |                     |
| 4                                      | 12               |                          |                     |
| 5                                      | 8                |                          |                     |
| 6                                      | 6                |                          |                     |
| 7                                      | 4                |                          |                     |
| 8                                      | 2                |                          |                     |
| Non-Compliant contributor              | 0                |                          |                     |
|  |                  | Total must equal:        | <b>100% (of 80)</b> |

**Price Calculation 80/20**

The following formula will be used to calculate the points for price.

$$P_s = 80 \left[ 1 - \frac{(P_t - P_{min})}{P_{min}} \right]$$

Where:

$P_s$  = Points scored for price of bid under consideration  
 $P_t$  = Rand value of bid under consideration  
 $P_{min}$  = Rand value of lowest acceptable bid

**17. Declaration of Authority**

The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise, confirms that the contents of this Bid Data is understood and all requirements will be adhered to.

|                |           |      |             |
|----------------|-----------|------|-------------|
|                |           |      |             |
| Name of Bidder | Signature | Date | Designation |

**18. TABLE 1: REFERENCES**

**Please complete the customer reference table and relevant Contact telephone number and attach reference letters.**

| Customer |  | Service Provided | Contractual commencement date | Contractual completion date |
|----------|--|------------------|-------------------------------|-----------------------------|
| 1        |  |                  |                               |                             |
| 2        |  |                  |                               |                             |
| 3        |  |                  |                               |                             |
| 4        |  |                  |                               |                             |
| 5        |  |                  |                               |                             |
| 6        |  |                  |                               |                             |
| 7        |  |                  |                               |                             |

|                         |                  |             |
|-------------------------|------------------|-------------|
|                         |                  |             |
| <b>Name of Tenderer</b> | <b>Signature</b> | <b>Date</b> |