

TENDER DATA

| | |
|----------------|--|
| Project title: | Appointment of a Service Provider for the supply and delivery of Alternative Ethernet Switches for a period of 3 years. |
| Bid no: | SENT-012-2022-23 |

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.

Due to supply delays and price point of Cisco ethernet switches, Sentech requires alternative ethernet switches to fulfil its diverse needs. Sentech requires a range of ethernet switches ranging from layer-2 fixed form factor switches to layer-3 modular switches. This tender is for both supply and national support of said switches for a period of 3 years.

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, facsimile 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" and one "Copy of Technical Proposal" together with a soft copy in PDF format of an electronic medium e.g. USB etc. The soft copy will consist of a single PDF document containing the complete response. 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 Date and Pricing schedule/schedule of rates as applicable) together with 1 copy of "Financial Proposal" together with a soft copy in PDF format of an electronic medium e.g. Compact Disk (CD), USB etc. The soft copy will consist of a single PDF document containing the complete Financial Proposal.

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:** ##
- **TECHNICAL AND FINANCIAL PROPOSALS**
- **INSERT CLOSING DATE AND TIME**

- **BIDDER'S NAME AND ADDRESS**

Bidders that combine their Technical Proposal with the Financial Proposal (or any financial information) will be automatically disqualified and not be evaluated further.

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.

Only original signatures will be accepted.

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 retype or redraft 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. ADMINISTRATIVE RESPONSIVENESS CRITERIA

Bidders are required to ensure that they meet all the Administrative Responsiveness Criteria.

7. BBBEE CODES AT SENTECH

Sentech complies with the codes of good practice as prescribed by the DTI, to advance Broad Based Black Economic Empowerment.

8. Pre-qualification criteria

With the objective of advancing designated groups, the Bidding condition applicable to this Bid is **N/A** (Specify targeted companies (EME / QSE) or minimum B-BBEE status level of contributor) as contemplated in PPPFA regulations, 2017 sub regulation 4(1). A Bidder must provide documentary evidence to support their compliance with this prequalification criteria. A Bidder that fails to meet any pre-qualifying criteria stipulated in this Bid document is an unacceptable Bid.

9. Subcontracting as a condition of Bid

Sub-contracting will not be allowed for this bid.

10. Transformation Plan

A transformation plan is a record of activities an entity intends to undertake to improve its BBBEE Level through Ownership, Management and Control; Skills Development; Enterprise and Supplier Development and Socio-Economic Development.

Sentech reserves the right to request a BBBEE transformation plan with clearly defined timelines and milestones if the recommended Bidder does not meet Sentech's transformation goals. These milestones must be achieved over the term of the contract. This transformation plan must be submitted within 10 working days from the written request, failing which Sentech reserves the right to withdraw its appointment of the preferred recommended Bidder.

11. 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? | | No/ Not applicable |
| If yes, specify the sector | | |
| Specify minimum threshold applicable | | |

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

12. EVALUATION CRITERIA

The evaluation criteria are stipulated in 18 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.

13. 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.

14. 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.

15. BID EVALUATION METHOD

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

| | |
|--|---|
| <p>Two envelope system will be followed for Technical and Price offer</p> | <p>1. Stage 1 – Administrative Responsiveness Evaluation All the Technical Proposals will be evaluated against the Administrative responsiveness requirements as set out in the list of returnable documents.</p> <p>2. Stage 2 –Technical Evaluation Those proposals that are Administratively responsive will then be evaluated against the mandatory technical compliance criteria as set out in 18.1. Bidders complying with ALL the mandatory criteria will then be evaluated against the functional technical compliance criteria as set out in 18.2. Bidders must score a minimum of 140 points to qualify for further evaluation.</p> <p>3. Stage 3 – Price and Preference 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.</p> |
|--|---|

16. 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.
- 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.
- All corrections must be initialled. The use of corrective fluid is strictly prohibited.
- 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, 3.1, 3.2, 3.3, 4, 5, 6.1, 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.

16.1 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.

17. TECHNICAL RESPONSIVENESS COMPLIANCE

The Technical Evaluation will encompass evaluation of:

- Mandatory Criteria
- Functional / Technical Criteria

18. TECHNICAL EVALUATION CRITERIA

18.1 Mandatory Eligibility Criteria

The following criteria are mandatory to ALL BIDDERS:

| Mandatory Eligibility Criteria | Attach evidence and provide reference page number in your proposal |
|--|--|
| General | |
| 1. Confirmation of being a certified or official partner / agent / reseller of the Original Equipment Manufacturer | OEM confirmation on OEM letterhead |
| 2. Confirmation that all equipment (including components) offered for the duration of the contract will be supported for a minimum period of 5 years from date of purchase | Confirmation in a Company letterhead |
| Layer-2 Switches | |
| 3. A minimum of 16K mac addresses | Specification sheets for each switch model offered |
| 4. A minimum of 1024 Vlan IDs | Specification sheets for each switch model offered |
| 5. A minimum of 512 simultaneous vlans | Specification sheets for each switch model offered |
| 6. Auto-MDI/MDIX | Specification sheets for each switch model offered |
| 7. At least SNMP v2c | Specification sheets for each switch model offered |
| 8. SSHv2 for CLI access | Specification sheets for each switch model offered |
| 9. AAA TACACS+ and/or RADIUS | Specification sheets for each switch model offered |
| 10. IEEE 802.1Q trunking | Specification sheets for each switch model offered |
| 11. IEEE 802.3az Energy Efficient Ethernet | Specification sheets for each switch model offered |
| 12. Time synchronization NTP/PTP | Specification sheets for each switch model offered |
| 13. Built-in power supply/ies unit/s (no external power supplies) | Specification sheets for each switch model offered |

| Mandatory Eligibility Criteria | Attach evidence and provide reference page number in your proposal |
|---|--|
| Layer-3 Switches | |
| 14. A minimum of 32K mac addresses | Specification sheets for each switch model offered |
| 15. A minimum of 4096 Vlan IDs | Specification sheets for each switch model offered |
| 16. A minimum of 2000 simultaneous vlans | Specification sheets for each switch model offered |
| 17. Auto-MD/MDIX | Specification sheets for each switch model offered |
| 18. At least SNMP v2c | Specification sheets for each switch model offered |
| 19. SSHv2 for CLI access | Specification sheets for each switch model offered |
| 20. AAA TACACS+ and/or RADIUS | Specification sheets for each switch model offered |
| 21. Per port ingress rate limiting | Specification sheets for each switch model offered |
| 22. IEEE 802.1Q trunking | Specification sheets for each switch model offered |
| 23. IEEE 802.1QinQ vlan stacking | Specification sheets for each switch model offered |
| 24. IEEE 802ad QinQ tunnelling | Specification sheets for each switch model offered |
| 25. IEEE 802.3az Energy Efficient Ethernet | Specification sheets for each switch model offered |
| 26. Time synchronization NTP/PTP | Specification sheets for each switch model offered |
| 27. Built-in power supply/ies unit/s (no external power supplies) | Specification sheets for each switch model offered |

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

18.2. Functional Criteria

| Functionality Criteria | Maximum Points | Document reference / Page number |
|--|----------------|----------------------------------|
| Layer-2 Switches | | |
| 1. Available in 1U fixed form factor | 2 | |
| 2. Jumbo 9K frames | 2 | |
| 3. Auto-negotiation | 2 | |
| 4. Port mirroring | 2 | |
| 5. Access control lists for source/destination IP and protocol type | 2 | |
| 6. Static routing (specify maximum routes) | 2 | |
| 7. IPv6 support (for management) | 2 | |
| 8. Programmability (REST API) | 2 | |
| 9. IEEE 802.1s MSTP | 2 | |
| 10. IEEE 802.1w RSTP | 2 | |
| 11. IEEE 802.1AB LLDP | 2 | |
| 12. Packet storm protection for broadcast, multicast and unknown unicast | 2 | |
| 13. Per port ingress rate-limiting | 2 | |
| 14. Protecting the control plane against CPU overload and DOS attacks | 2 | |
| 15. <u>Port options:</u> | | |
| 15.1. 8 X 1Gbps ports with 1/2 uplink copper/SFP ports | 2 | |
| 15.2. 12 X 1Gbps ports with 1/2 uplink copper/SFP ports | 2 | |
| 15.3. 24 X 1Gbps ports with 1/2 uplink copper/SFP ports | 2 | |
| 15.4. 48 X 1Gbps ports with 1/2 uplink copper/SFP ports | 2 | |
| 16. IEEE 802.1at POE+ support (minimum of 802.1af will be accepted) for POE capable switches | 2 | |
| 17. Dual power supplies | 2 | |
| 18. AC Power 220V-240V | 2 | |
| Sub-Total | 42 | |
| <i>A minimum of 85% (or 36 points) is required for this section</i> | | |
| Layer-3 Switches | | |
| 19. Available in | | |
| 19.1. 1U fixed form factor | 1 | |
| 19.2. Modular | 1 | |
| 20. Jumbo 9K frames | 1 | |
| 21. Auto-negotiation | 1 | |
| 22. Port mirroring | 1 | |

| | | |
|--|---|--|
| 23. IEEE 802.1Q trunking | 1 | |
| 24. IEEE 802.1s MSTP | 1 | |
| 25. IEEE 802.1w RSTP | 1 | |
| 26. IEEE 802.1AB LLDP | 1 | |
| 27. Packet storm protection for broadcast, multicast and unknown unicast | 1 | |
| 28. Protecting the control plane against CPU overload and DOS attacks | 1 | |
| 29. IGMP snooping | | |
| 29.1. IGMPv2 | 1 | |
| 29.2. IGMPv3 | 1 | |
| 30. Time synchronization via NTP/PTP | 1 | |
| 31. Link aggregation: | | |
| 31.1. IEEE 802.3ad | 1 | |
| 31.2. IEEE 802.3AX | 1 | |
| 32. Layer 3 support | | |
| 32.1. IPv4 | 1 | |
| 32.2. IPv6 | 1 | |
| 32.3. VRF | 1 | |
| 32.4. BFD | 1 | |
| 33. Routing: | | |
| 33.1. RIPv2 | 1 | |
| 33.2. RIPvng | 1 | |
| 33.3. OSPFv2 | 1 | |
| 33.4. OSPFv3 | 1 | |
| 33.5. BGP | 1 | |
| 33.6. PIM | 1 | |
| 34. IPv4/IPv6 dual stack | 1 | |
| 35. Maximum number of switches supported in a single stack (Stacking) | | |
| 35.1. 2 | 1 | |
| 35.2. 4 | 2 | |
| 35.3. 8 | 3 | |
| 35.4. 16 or more | 4 | |
| 36. Long distance stacking (10km) | 1 | |
| 37. Number of ECMP supported | | |
| 37.1. 4 | 1 | |
| 37.2. 8 | 2 | |
| 37.3. 16 | 3 | |
| 38. RFC3176 sFlow | 1 | |
| 39. Access control lists: | | |
| 39.1. MAC based | 1 | |
| 39.2. IP based | 1 | |
| 40. Segmentation: | | |
| 40.1. 802.1Q | 1 | |
| 40.2. EVPN | 1 | |

| | | | |
|---|---|----|--|
| 40.3. | VXLAN | 1 | |
| 41. | Port options: | | |
| 41.1. | 24 X 1Gbps ports with dual uplink copper/SFP ports | 1 | |
| 41.2. | 48 X 1Gbps ports with dual uplink copper/SFP ports | 1 | |
| 41.3. | 24 X 10Gbps ports with dual uplink copper/SFP ports | 1 | |
| 41.4. | 48 X 10Gbps ports with dual uplink copper/SFP ports | 1 | |
| 41.5. | 24 X 25/40Gbps ports with dual uplink copper/SFP ports | 1 | |
| 42. | Programmability (REST API) | 1 | |
| 43. | In-service software upgrades (ISSU) | 1 | |
| 44. | Hitless patching | 1 | |
| 45. | Syslog | 1 | |
| 46. | Dual power supplies | 1 | |
| 47. | AC 220V-240V | 1 | |
| | <i>Sub-Total</i> | 51 | |
| <i>A minimum of 90% (or 46 points) is required for this section</i> | | | |
| General | | | |
| 48. | List the network operating system for all switch models offered: | | |
| 48.1. | Single NOS | 12 | |
| 48.2. | Multiple NOS'es | 0 | |
| 49. | Support: | | |
| 49.1. | 8X5XNBD nationally | 6 | |
| 49.2. | 24X7X365 in major centres | 6 | |
| 50. | Management System: | | |
| 50.1. | Single management system for Layer-2, Layer-3 switches | 6 | |
| 50.2. | Two management systems | 0 | |
| 51. | Netbrain driver support | 6 | |
| 52. | Software licensing model: | | |
| 52.1. | None | 12 | |
| 52.2. | Perpetual | 6 | |
| 52.3. | Per feature | 0 | |
| 53. | Is security patches available to users without a support contract? | 6 | |
| 54. | Lead times for delivery: | | |
| 54.1. | 4-6 weeks | 12 | |
| 54.2. | 6-8 weeks | 10 | |
| 54.3. | 8+ weeks | 6 | |
| 55. | Indicate the switch models offered that support ITU-T 8032 ethernet ring protection | 6 | |

| | | |
|--|------------|--|
| Sub-Total | 72 | |
| A minimum of 75% (or 54 points) is required for this section | | |
| | | |
| Total | 165 points | |

Table 1: Functional Criteria

Total minimum qualifying functional score is 85% or 140 points. A Bidder must score more than 0 points in each section to be evaluated further.

19. 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).

20. Preference Point allocation – 80/20

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

| Goal | Points | Evidence required |
|--|-----------|--|
| Historically disadvantaged by unfair discrimination on the basis of Race | 10 | A valid BBBEE Certificate showing at least 51% black ownership |
| Historically disadvantaged by unfair discrimination on the basis of Gender (women) | 8 | A valid BBBEE Certificate showing at least 30% women ownership |
| Historically disadvantaged by unfair discrimination on the basis of disability | 2 | A doctor's note confirming disability |
| Total Points | 20 | |

21. Price Calculation 80/20

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

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

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 |

22. 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 |

TABLE 1: REFERENCES

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

| Customer | | Service Provided | Contact Person | Contact no. tel. | Contractual commencement date | Contractual completion date |
|----------|--|------------------|----------------|------------------|-------------------------------|-----------------------------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |

| | | |
|-------------------------|------------------|-------------|
| | | |
| Name of Tenderer | Signature | Date |