

TENDER DATA

Project title:	Appointment of a Panel of service providers for supply, delivery, Installation, support of Wi-Fi and Solar powered Wi- Fi solutions for a period of Three (3) years Sentech SOC (Ltd).
Bid no:	SENT/063/2023-24

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 intends to appoint a panel of service providers for supply, delivery, installation, support of Wi-Fi and solar powered Wi-Fi solutions for a period of 3 years. The Wi-Fi and solar powered Wi-Fi solutions will enable Sentech to meet customer and mandated requirements. The Wi-Fi solutions will enable end-users to access internet in their homes and mobile devices. The proposed solution will also cater for independent solar powered deployment in remote areas without adequate power.

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: SENT/063/2023-24**

- **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. SUBCONTRACTING AS A CONDITION OF BID

The successful Bidder must subcontract a minimum of _____% of the value of the contract to _____(specify the designated group targeted).

9. 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.

10. 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?	Yes	No
If yes, specify the sector		
Specify minimum threshold applicable		

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

11. EVALUATION CRITERIA

The evaluation criteria are stipulated in clause 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.

12. AWARD OF BID/S

Sentech may appoint one or more suppliers, in whole or in part, or not appoint any supplier/s at all, and/or cancel the bid in its entirety, at Sentech's sole and exclusive discretion, in order to satisfy various needs which may be identified, and to manage certain risks associated with the supply of goods or services specified in respect of the Bid.

13. ALTERNATIVE/SUBSTITUTE PRODUCTS

In the case of contracts and/or panels which are in excess of 12 (twelve) months, Sentech shall be entitled to consider alternative products and product upgrades during the tenure of the contract and/or panel in order to accommodate new products and upgrades in the market. Bidders are required to bring all such developments to the attention of Sentech for approval. No alternative products may be supplied without Sentech's prior written approval.

14. 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.

15. 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.

16. BID EVALUATION METHOD

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

<p>One envelope system will be followed for Technical and Price offer</p>	<ol style="list-style-type: none"> <p>1. Stage 1 – Administrative Responsiveness Evaluation</p> <p>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</p> <p>All proposals that qualify based on the administrative responsiveness requirements will be evaluated against Technical Evaluation criteria as set out under 18. TECHNICAL RESPONSIVENESS COMPLIANCE. Only bidders that complied in full to ALL the Mandatory Criteria will be scored against functional evaluation criteria per section.</p> <p>3. Stage 3 – Risk Assessment</p> <p>Bidders complying with Stage 2, will be evaluated against the Risk Assessment. The evaluation committee reserves the right to conduct a risk assessment on all preliminary and short-listed panellist to establish and assess capacity and risk level to Sentech if a bidder is to be appointed to deliver services.</p> <p>4. Stage 4 – Panel Appointment</p> <p>Bidders who fully comply with the Mandatory Criteria and obtain the minimum threshold points in the Functional Criteria will be appointed onto a panel of services providers for supply, delivery, installation and support of Wi-Fi solutions for a period of three (3) years. Sentech at its sole discretion, have the right to not appoint bidders onto the panel.</p>
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17. 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.

17.1 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.

18. TECHNICAL RESPONSIVENESS COMPLIANCE

The Technical evaluation will have six sections as listed below on the table, bidders to tick which category they are bidding for:

SECTION	PANEL	PLEASE INDICATE (YES / NO)
SECTION A	Indoor access Wi-Fi point.	
SECTION B	Basic outdoor Wi-Fi access point.	
SECTION C	Advanced outdoor Wi-Fi access point.	
SECTION D	Wireless Controller for Wi-Fi access points.	
SECTION E	Solar powered Wi-Fi solutions.	
SECTION F	Wi-Fi solution installation	

***Bidders to supply sufficient proof in form of manuals, datasheets, or letters from suppliers for ALL mandatory criteria and functional criteria(s) responses below. Each section will be treated individually. In the section below the compliance must be shown by a clear YES or No, reference to where to find the information and page number on the submission must be stated clearly.**

The Technical Evaluation for each section will encompass evaluation of:

- Mandatory Criteria
- Functional Criteria

For each section, where applicable, bidders may offer more than one product or model. Each product or model offered will be individually evaluated against the mandatory and functional criteria.

SECTION A: TECHNICAL CRITERIA - INDOOR Wi-Fi ACCESS POINT

18.1 Mandatory Eligibility Criteria

Mandatory Eligibility Criteria (INDOOR Wi-Fi ACCESS POINT)		Complaint (Yes/No)	Proof required	Provide reference to page number in your proposal
18.1.1.	The access point should support the following standards. IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11ac (WAVE 2), 802.11i, 802.11r/k/v. (Optional IEEE 802.11ax).		Manuals, datasheets or letters from suppliers.	
18.1.2.	The access point should support SNMP v1 or higher (V2/V3)		Manuals, datasheets or letters from suppliers.	
18.1.3.	The access point should support POE+ i.e., IEEE 802.3af/t standard.		Manuals, datasheets or letters from suppliers.	
18.1.4.	The access point should support 2.4 GHz and 5GHz and/or 6GHz frequency bands		Manuals, datasheets or letters from suppliers.	
18.1.5.	The access point should support Layer3, Layer4 as well as Application firewall.		Manuals, datasheets or letters from suppliers.	
18.1.6.	The access point should support IPv4 and IPv6.		Manuals, datasheets or letters from suppliers.	
18.1.7.	The access point should support the following authentication methods: WPA/WPA2-AES, PSK, authentication and AES encryption and 802.1x/EAP and unauthenticated (open) mode		Manuals, datasheets or letters from suppliers.	
18.1.8.	The access point should have Dual band antennas to support both the 2.4GHz and 5GHz and/or 6GHz operations simultaneously. Minimum antennae gain of 2dBi.		Manuals, datasheets or letters from suppliers.	
18.1.9	The access point should have autosensing 10/100/1000 Base-T Ethernet Ports		Manuals, datasheets or letters from suppliers.	
18.1.10	Access point shall support powering from POE and DC (AC to DC power supply to be included where required)		Manuals, datasheets or letters from suppliers.	
18.1.11	Device shall support remote configuration, management, and control.		Manuals, datasheets or letters from suppliers.	
18.1.12.	The access point shall support VLAN trunking in accordance with IEEE 802.1Q		Manuals, datasheets or letters from suppliers.	
18.1.13.	The access point should support VLAN based SSID for user traffic.		Manuals, datasheets or letters from suppliers.	
18.1.14.	The access point should be able to be configured for WIPS/WIDS.		Manuals, datasheets or letters from suppliers.	
18.1.15	The access point should support IEEE 802.11w, PMF.		Manuals, datasheets or letters from suppliers.	

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

18.2 Functional Criteria

Functionality criteria (INDOOR Wi-Fi ACCESS POINT)		Provide reference to page number in your proposal	Points
18.2.1.	Wall mount/Ceiling mount accessories should be available.		10
18.2.2.	The access point should be able to work in a mesh network.		10
18.2.3.	The access point should have dual integrated antennas		10
18.2.4.	The access point should have the ability to perform RF management to minimize interference.		10
18.2.5.	The access point should have internal battery for backup.		10
18.2.6.	The access point should switch seamlessly between other access points.		5
18.2.7.	Bidders to offer a warranty of 24 months including support and software updates, 12 months warranty offer will be scored at 0.		5
Total Points:			60

*Total minimum qualifying functional score is **45** points.*

SECTION B: TECHNICAL CRITERIA - BASIC OUTDOOR Wi-Fi ACCESS POINT

18.3 Mandatory Eligibility Criteria

Mandatory Eligibility Criteria (BASIC OUTDOOR Wi-Fi ACCESS POINT)		Complaint (Yes/No)	Proof required	Provide reference page number in your proposal
18.3.1.	The access point should support the following standards: IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11ac (WAVE 2), 802.11i, 802.11 r/k/v. (Optional IEEE 802.11ax)		Manuals, datasheets or letters from suppliers	
18.3.2.	The access point should have cover a minimum radius of 100m.		Manuals, datasheets or letters from suppliers	
18.3.3.	The access point should support 2x2 on 5GHz and 2x2 on 2.4GHz.		Manuals, datasheets or letters from suppliers	
18.3.4.	The access point should support Omni and directional antennas		Manuals, datasheets or letters from suppliers	
18.3.5.	The access point should support SNMP v1 or higher		Manuals, datasheets or letters from suppliers	
18.3.6.	The access point should support POE+ i.e., IEEE 802.3 af/t standard.		Manuals, datasheets or letters from suppliers	
18.3.7.	The access point should support Layer3, Layer4 as well as Application firewall.		Manuals, datasheets or letters from suppliers	
18.3.8.	The access point should support IPv4 and IPv6 standards.		Manuals, datasheets or letters from suppliers	
18.3.9.	The access point should support the following authentication methods: WPA/WPA2-AES, PSK, authentication and AES encryption and 802.1x/EAP and unauthenticated (open) mode.		Manuals, datasheets or letters from suppliers	
18.3.10.	The access point should have Dual band antennas to support both the 2.4GHz and 5GHz operations simultaneously. Minimum antennae gain of 4dBi.		Manuals, datasheets or letters from suppliers	
18.3.11.	The access point should have autosensing 10/100/1000 Base-T Ethernet Ports		Manuals, datasheets or letters from suppliers	
18.3.12.	Device should support remote configuration, management and control.		Manuals, datasheets or letters from suppliers	
18.3.13.	The access point should support VLAN trunking in accordance with IEEE 802.1Q and 802.1P		Manuals, datasheets or letters from suppliers	
18.3.14.	The access point should support VLAN based SSID for user traffic.		Manuals, datasheets or letters from suppliers	
18.3.15.	The access point should be able to be configured for WIPS/WIDS.		Manuals, datasheets or letters from suppliers	
18.3.16.	The access point should support IEEE 802.11w, PMF.		Manuals, datasheets or letters from suppliers	
18.3.17.	The access point should be able to operate within the stated humidity range of 10 to 90% (noncondensing)		Manuals, datasheets or letters from suppliers	

18.3.18	The access point should be able operate within the following temperature range: -10°C to 55°C		Manuals, datasheets or letters from suppliers	
18.3.19	The access point should be IP67 certified		Manuals, datasheets or letters from suppliers	

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

18.4 Functional Criteria

Functionality criteria (BASIC OUTDOOR Wi-Fi ACCESS POINT)		Provide reference to page number in your proposal	Points
18.4.1.	Geographic orientation flexibility – tilt angle for pole, wall, and roof mounting units.		5
18.4.2.	The access point should be able to work in a mesh network		5
18.4.3.	The access point should have a minimum of 4dbi antenna gain.		5
18.4.4.	The access point should have the ability to perform RF management to minimize interference.		5
18.4.5.	The access point should have internal battery for backup.		5
18.4.6.	The access point should switch seamlessly between other access points.		5
18.4.7.	The access point should be able to mount using a pole or wall-mount accessories should be available.		5
18.4.8.	The access point should support IEEE 802.11ax – Wi-Fi 6)		10
18.4.9.	The access point should support beamforming technology as per IEEE 802.11ac.		5
18.4.10.	Must support the ability to serve clients and monitor the RF environment concurrently.		5
18.4.11.	Bidders to offer a warranty of 24 months including support and software updates. 12 months warranty offer will be scored at 0.		5
	Total Points:		60

*Total minimum qualifying functional score is **45** points:*

SECTION C: TECHNICAL CRITERIA - ADVANCED OUTDOOR ACCESS POINT

18.5 Mandatory Eligibility Criteria

Mandatory Eligibility Criteria (ADVANCED OUTDOOR ACCESS POINT)		Complaint (Yes/No)	Proof required	Provide reference to page number in your proposal
18.5.1.	The access point should support the following standards. IEEE 802.11a/b/g, IEEE 802.11n, IEEE 802.11ac (WAVE 2), 802.11i, 802.11 r/k/v. (Optional IEEE 802.11ax)		Manuals, datasheets or letters from suppliers	
18.5.2.	The access point should cover a minimum radius of 200m		Manuals, datasheets or letters from suppliers	
18.5.3.	The access point should support SNMP v1 or higher		Manuals, datasheets or letters from suppliers	
18.5.4.	The access point should support 2x2 / 4x4 on 5GHz or 6GHz and 2x2 on 2.4GHz.		Manuals, datasheets or letters from suppliers	
18.5.5.	The access point should support mesh network.		Manuals, datasheets or letters from suppliers	
18.5.6.	The access point should support Layer3, Layer4 as well as Application firewall.		Manuals, datasheets or letters from suppliers	
18.5.7.	The access point should support IPv4 and IPv6 standards.		Manuals, datasheets or letters from suppliers	
18.5.8.	The access point should support the following authentication methods: WPA/WPA2-AES, PSK, authentication and AES encryption and 802.1x/EAP and unauthenticated (open) mode.		Manuals, datasheets or letters from suppliers	
18.5.9.	The access point should have Dual band antennas to support both the 2.4GHz and 5GHz operations simultaneously. Minimum antennae gain of 6dBi.		Manuals, datasheets or letters from suppliers	
18.5.10.	The access point should have autosensing 10/100/1000 Base-T Ethernet Ports		Manuals, datasheets or letters from suppliers	
18.5.11.	Access point shall support powering from POE and DC (AC to DC power supply to included where required)		Manuals, datasheets or letters from suppliers	
18.5.12.	Device should support remote configuration, management and control.		Manuals, datasheets or letters from suppliers	
18.5.13.	The access point should support VLAN trunking in accordance with IEEE 802.1Q		Manuals, datasheets or letters from suppliers	
18.5.14.	The access point should support VLAN based SSID for user traffic.		Manuals, datasheets or letters from suppliers	

18.5.15	The access point should be able to be configured for WIPS/WIDS.		Manuals, datasheets or letters from suppliers	
18.5.16	The access point should support IEEE 802.11w, PMF.		Manuals, datasheets or letters from suppliers	
18.5.17.	The access point should be able to operate within the stated humidity range of 10 to 90% (noncondensing)		Manuals, datasheets or letters from suppliers	
18.5.18.	The access point should be able operate within the following temperature range: -10°C to 55°C		Manuals, datasheets or letters from suppliers	
18.5.19.	The access point should be IP67 certified		Manuals, datasheets or letters from suppliers	

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

18.6 Functional Criteria

Functionality criteria (ADVANCED OUTDOOR ACCESS POINT)		Provide reference to page number in your proposal	Points
18.6.1	Geographic orientation flexibility – tilt angle for pole, wall, and roof mounting units.		5
18.6.2	The access point should support 10-Gigabit Ethernet		5
18.6.3.	Wall mount/Ceiling mount accessories should be available.		5
18.6.4.	The access point should have dual integrated antennas		5
18.6.5.	The access point should have the ability to perform RF management to minimize interference.		5
18.6.6.	The access point should have internal battery for backup.		5
18.6.7.	The access point should switch seamlessly between other access points.		5
18.6.8	The access point should be able to mount using a pole or wall-mount.		5
18.6.9.	Bidders to offer a warranty of 24 months including support and software updates. 12 months warranty offer will be scored at 0.		10
Total points:			50

*Total minimum qualifying functional score is **35** points.*

SECTION D: TECHNICAL CRITERIA: WIRELESS CONTROLLER FOR Wi-Fi ACCESS POINTS

18.7 Mandatory Eligibility Criteria

Mandatory Eligibility Criteria (WIRELESS CONTROLLER FOR Wi-Fi ACCESS POINTS)		Complaint (Yes/No)	Proof required	Provide reference to page number in your proposal
18.7.1.	The controller should support the following standards IEEE 802.11a, 802.11b, 802.11g, 802.11n, 802.11ac.		Manuals, datasheets or letters from suppliers	
18.7.2.	The controller support 10/100/1000 Base-T and SFP modules		Manuals, datasheets or letters from suppliers	
18.7.3.	The controller should support auto-negotiation.		Manuals, datasheets or letters from suppliers	
18.7.4.	The controller should support SNMP v1 or higher (V2/V3).		Manuals, datasheets or letters from suppliers	
18.7.5.	The controller should support wired speed, nonblocking performance for 802.11n and optimized for 802.11ac		Manuals, datasheets or letters from suppliers	
18.7.6.	The controller should support HTTP/HTTPS for web based and Command-line interface, and Secure Shell (SSH) Protocol.		Manuals, datasheets or letters from suppliers	
18.7.7.	The controller should support traffic classification based on the combination of the L2 protocol header, IP 5- tuple and 802.1p priority		Manuals, datasheets or letters from suppliers	
18.7.8.	The Wireless Controller should have spectrum analysis feature to detect interference.		Manuals, datasheets or letters from suppliers	
18.7.9.	The controller should support 802.11i, Wi-Fi Protected Access 2 (WPA2), WPA, 802.1X.		Manuals, datasheets or letters from suppliers	
18.7.10.	The controller should support Advanced Encryption Standards (AES), Temporal Key Integrity Protocol (TKIP), and Extensible Authentication.		Manuals, datasheets or letters from suppliers	
18.7.11.	The controller should support IPv4 and IPv6 standards.		Manuals, datasheets or letters from suppliers	
18.7.12.	Device should support remote configuration, management and control		Manuals, datasheets or letters from suppliers	

18.7.13.	The controller should support VLAN trunking in accordance with IEEE 802.1Q		Manuals, datasheets or letters from suppliers	
18.7.14.	The controller should be able to be configured for WIPS/WIDS.		Manuals, datasheets or Letters from suppliers	
18.7.15.	The controller should be rack mount with 220v/50Hz		Manuals, datasheets or letters from suppliers	

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

18.8 Functional Criteria

Functionality criteria (WIRELESS CONTROLLER FOR Wi-Fi ACCESS POINTS)		Provide reference to page number in your proposal	Points
18.8.1.	The controller should have Console Port S232 (DB-9 male/RJ-45 connector included), mini-USB.		5
18.8.2.	The controller should support 10-Gigabit Ethernet		10
18.8.4.	The controller should support mesh routing algorithm and mesh client mode.		10
18.8.5.	The controller should support Access authentication for mesh devices		5
18.8.6.	The controller should support vehicle-ground fast link handover.		5
18.8.7.	The controller should support WDS bridging.		10
18.8.8.	The controller should be able to perform self-healing.		5
18.8.9	Bidders to offer a warranty of 24 months including support and software updates. 12 months warranty offer will be scored at 0.		10
	Total points:		60

*Total minimum qualifying functional score is **45** points.*

SECTION E: TECHNICAL CRITERIA - SOLAR POWERED Wi-Fi ACCESS POINT SOLUTION

18.9 Mandatory Eligibility Criteria

Mandatory Eligibility Criteria (SOLAR POWERED Wi-Fi ACCESS POINT SOLUTION)		Complaint (Yes/No)	Proof required	Provide reference page number in your proposal
18.9.1.	The solar solution should be certified according to IEC 61215:1995.		Provide letter of commitment on a company letterhead	
18.9.2.	The solar solution should be manufactured under ISO9001.		Provide letter of commitment on a company letterhead	
18.9.3.	The solar solution should be compatible with lithium battery depth of discharge of 20%.		Provide letter of commitment on a company letterhead	
18.9.4.	The solar solution should be able to deliver 100W.		Provide letter of commitment on a company Letterhead	
18.9.5.	The solar cells should be able to withstand harsh weather condition IP65 rating.		Provide letter of commitment on a company letterhead	
18.9.6.	The solar solution needs to operate independently of Eskom / Municipal power during the day and with batteries at night.		Provide letter of commitment on a company letterhead	
18.9.7.	The solution should be lightweight, able to mount on a pole, inside the enclosure provision for (batteries, solar charge controller, mounting rails for Access points, etc).		Provide letter of commitment on a company letterhead	

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

18.10. Functional Criteria

Functionality criteria (SOLAR POWERED Wi-Fi ACCESS POINT SOLUTION)		Provide reference page number in your proposal	Points
18.10.1	The Solar solution should contain LCD/LED display for comprehensive information including voltage, status, time, load, output, and charge details.		10
18.10.2.	The solar solution should contain an array structure to be mount on the pole with adjustable tilt.		5
18.10.3.	The equipment enclosure should be coated with Coated aluminum white, stainless steel		5
18.10.4.	The equipment enclosure should have mounting rails.		5
18.10.6.	The solar solution should support powering from POE and DC.		10

18.10.7.	Bidders to supply a brochure for a standalone solar power solution that they have implemented.		5
18.10.8.	The solar solution should have a warranty of 24 months including support.		10
18.10.9.	The solar solution should be able to operate within the stated humidity range of 10 to 90% (noncondensing)		5
18.10.10.	The solar solution should be able to operate within the operating temperature: - 40°C to +85°C.		5
	Total points:		60

Total minimum qualifying functional score is **45** points.

SECTION F: TECHNICAL CRITERIA - INSTALLATION

18.11 Mandatory Eligibility Criteria

Mandatory Criteria (INSTALLATION)	Proof Required (supporting documents)	Please specify YES /NO for compliance	Proof documentation reference (Folder, Section, heading, page number in the bidder's submission)
The Bidder to indicate if they are capable of doing installation of Wi-Fi solutions on an "as and when" required basis nationally (all 9 provinces) and provide proof of experience on Wi-Fi installations	Provide proof of experience in table format indicating: <ul style="list-style-type: none"> • The project title / client. • Year of installations. • Scope of the the project. • Number of installations conducted. • Contactable references per project. 		
The Bidder must indicate existing resources / contractors that the bidder can utilise to do installation work, if and when required, including the locations where these resources / contractors are based nationally.	Detailed breakdown and description of available resources in the company, in a table format with location.		
Bidders must sub-contract 50% of the installation work to SMME's as provided by SENTECH in the SMME list (Annexure A). The remaining 50% of the work must be fulfilled by SMME's of the bidder's choice on	Provide letter of commitment on a company letterhead		

	condition that SMMEs used are based in the province where installations are required.			
18.11.4.	The Service provider will be 100% responsible for the management and quality of the installation work if and where required	Provide letter of commitment on a company letterhead that the service provider accepts 100% responsibility for the management of the network implementation and quality of the installation work		

***Section F will be evaluated on Mandatory criteria only**

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%

Sentech will award preference points as follows:

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
	5	A valid BBBEE Certificate showing at least 25.1 – 50% black ownership
	3	Black owned company showing at least 5 – 25% black ownership
	0	Below 5%
Historically disadvantaged by unfair discrimination on the basis of Gender (women)	8	A valid BBBEE Certificate showing at least 51% women ownership
	4	A valid BBBEE Certificate showing at least 25.1 – 50% women ownership
	2	A valid BBBEE Certificate showing at least 5-25% women ownership
	0	A valid BBBEE Certificate showing at less than 5% 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.

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

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

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						
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Name of Tenderer	Signature	Date