

VOLTA RIVER AUTHORITY

EXPRESSION OF INTEREST

IMPLEMENTATION OF CENTRALISED WI-FI SOLUTION

The Volta River Authority of the Republic of Ghana intends to use part of its Internally Generated Funds (IGF) to pay for the Procurement and Implementation of Centralized Wireless Project in the following locations:

- Akosombo - 10 Areas
- Aboadze - 6 Areas
- Accra - 6 Areas
- Tema - 4 Areas
- Akuse - 7 Areas

I. The VRA now invites proposals from qualified Ghanaian Registered companies with experience in similar projects to indicate their interest in undertaking the Centralized Wireless Project.

II. **The scope of services required includes but not limited to the following:**

- All intended coverage areas must be covered with a minimum -67 DBM Received Signal Strength Indicator (RSSI) for high rate data applications, multimedia and VOIP.
- For density concerns, there must be capability for up to 400 concurrent Users per location with a minimum -67 DBM Received Signal Strength Indicator (RSSI) for high rate data applications, multimedia and VOIP.

The Solution must:

- Be 802.11 a/b/g/n/ac capable and be able to scale without adding additional controllers or user licenses. Must employ a future-proof modular architecture for upgradability to future standards.
- Include the capability for Intrusion Detection/Intrusion Prevention (IDS/IPS), Application control or Deep Packet Inspection capabilities, security, QOS and VLAN tagging, application control.
- Be able to integrate into existing Microsoft Active Directory as part of the authentication system.
- Be dual band 2.4 and 5.0 GHz and have an effective working radius of at least **5km** within the VRA townships.
- Additional capabilities include integrated firewall, traffic shaping and QOS capabilities for optimal security, bandwidth management, and application delivery.
- Have BYOD on-boarding and quarantine capabilities to prevent unauthorized devices from consuming corporate resources and stop data leakage through unauthorized personal smart devices on the network.
- Have the capability to allow administrators to define and enforce wireless connectivity policies on all approved smart devices in and out of the office.

- The management system of the Centralized Wi-Fi solution must have hooks that tie it to the overall network management system, Solar winds NPM. The management system must be able to use SNMP traps to set alarms on access points, push centralized configurations to multiple access points on the network, provide traffic and usage reports per access point, provide rogue access point detection/reports, provide real-time client information for the entire network or per access point, track a particular user on the network by Mac address, username, IP and provide the tools to disconnect them from network if necessary.

- Be a scalable solution capable of integrating with VRA central authentication services (Microsoft Active Directory).

- Have Web-based authentication (via a captive portal) to VRA's Active Directory

- Have DHCP relay services and Restrict traffic based upon protocol and provide protection from Denial of Service attacks.

- The selected company will be required provide general and adequate training to all key staff to build up their capacity in wireless networks and the wireless solution to be deployed (specific training of the products to be used to provide the solution) to enable the staff manage the solution. Please provide a brief plan of the proposed training.

Mandatory Requirements:

1. Submission of the following documents

- Valid Business Registration and Incorporation Certificates
- Valid VAT Registration Certificate
- Valid Tax Clearance Certificate
- Valid SSNIT Clearance Certificate

2. Documentary evidence to support the following:

- Competence and sector related experience of the firm
- Similar assignments executed in the last five (5) years (Name of Client, Scope of Services, Value of Contracts, Year Executed etc. to be stated).
- At least Three (3) organizations the company has provided similar services to in the past as references.
- Relevant qualification for the project including Curriculum Vitae of proposed technical and support staff who work with your firm and their backgrounds relevant to the advertised services.

Companies may associate or form a consortium to enhance their qualifications.

NOTES:

➤ Selection/shortlisting of companies will be in accordance with the listed requirements and the Quality and Cost-Based Selection (QCBS) method of the Public Procurement Act 2003 (Act 663) as amended, of the Republic of Ghana.

➤ One (1) original and two (2) copies of each EOI, in sealed envelope clearly marked with the right EOI subject shall be submitted. A submission form must be signed at the time an EOI is submitted by a representative of a company or organization.

➤ Only shortlisted entities will be invited for the second stage of the procurement process (Request for Proposal) leading to a final selection of the successful Service Provider.

➤ Interested companies may obtain further information from the Office of the **Director, Procurement Department, Volta River Authority, Tema** from 9:00am to 3:00pm from **August 15, 2018 to September 19, 2018**.

Tel No: 0302-744410/ 0303-963162 :

Email: secprd@vra.com

➤ Site visits to the project locations will be organised for companies who intend to submit EOIs as follows:

DATE	LOCATION	VENUE AND TIME
August 28, 2018	Akosombo & Akuse	Akosombo GCB Bank @ 10 am
August 29, 2018	Accra/Tema	VRA Procurement Dept., Tema @ 9 am
August 31, 2018	Aboadze	Takoradi Thermal Power Station @ 10 am

• Expression of Interests must be signed, sealed and clearly marked "**EXPRESSION OF INTEREST FOR IMPLEMENTATION OF CENTRALISED WI-FI SOLUTION**" and addressed to:

**THE DIRECTOR OF PROCUREMENT
VOLTA RIVER AUTHORITY
TEMA**

And delivered to:

**The Office of the Director, Procurement Conference
Room No. 001, Procurement Department, Volta River Authority
(located 2km off Tema Motorway Roundabout to Aflao Road,
Close to the Tema Steel Works)**

by 12 Noon on Wednesday, September 19, 2018.

- Late Expressions of Interest would be rejected.