

**ZAMBEZI RIVER AUTHORITY****INVITATION FOR PRE-QUALIFICATION
(ADVERTISEMENT)****KARIBA DAM INSTRUMENTATION AUTOMATION:
SEISMIC MONITORING, PENDULUMS, SUPPLY, INSTALLATION,
TESTING, CALIBRATION, COMMISSIONING AND YEARLY
MAINTENANCE**

Ref No: ZRA-P&DMS-01-2024

The Zambezi River Authority ("the Authority") has set aside funds to finance various operational activities during the 2024 financial year. The Authority intends to apply part of the proceeds to payments under the non-consulting services contract for the **Kariba Dam instrumentation automation: seismic monitoring, pendulums and crack measurements supply, installation, testing, calibration, commissioning and yearly maintenance.**

The Authority is a corporate body jointly and equally owned by the Governments of the Republics of Zambia and Zimbabwe (Contracting States) and is mandated with the management of the Kariba Complex and the stretch of the Zambezi River (from Kazungula to Luangwa in Zambia and Kazungula to Kanyemba in Zimbabwe) forming a common border between the two Contracting States.

The Authority intends to prequalify manufacturers, distributors, or agents for the said non consulting services at Kariba Dam. It is expected that invitations to bid (ITB) will be issued at the end of June 2024. The scope of non-consulting services comprise the following:

- (a) Supply, installation, testing, calibration, and commissioning of five (5) Strong Motion Accelerometers (SMAs) and associated acquisition and processing system.
- (b) Supply and install a Data Acquisition System (DAS) with adequate number of channels for the number of accelerometers to be connected, complete with all the required power and data transmission cables.
- (c) Supply, installation and commissioning of a Central Receiving and Processing System (CRS) to be connected to the DAS but housed at the Authority's Offices that are located approximately 1 km away from the Kariba Dam.
- (d) Supply, installation, testing, calibration, and commissioning of eleven (11) automatic pendulum measurement devices for existing manual pendulum reading points in the South Bank:
- (e) Supply, installation, testing, calibration and commissioning of a data collection and transmission system for eleven (11) automatic pendulum reading tables.
- (f) Provision of six (6) portable data logger for the pendulums.
- (g) Provision and installation of all the required terminal boxes for the pendulums.
- (h) Supply of one (1) GSM antenna complete with lightning protection system of the antenna (Zimbabwean network) to send collected data to an MS Azure cloud and on-premises server.
- (i) Supply, installation, calibration, and commissioning of two (2) automatic crack opening measurement devices.
- (j) Supply and installation of all the required power and data transmission cables.
- (k) Provision of a web-based monitoring (WBM) platform for structural, hydraulic, and geotechnical engineering health monitoring of structures with possibility of importing and managing manual measurements.
- (l) Training of the Client's staff.
- (m) Yearly inspections of the equipment under this scope for three (3) years.

Interested Applicants may obtain further information on **Prequalification Document (PQD)** on the Authority's Authority website: www.zambezi.org. A complete set of the prequalification PQD document in English may be obtained by downloading it from the website or upon submission of a written request to the e-mail address: procurement@zambezi.org. The PQD will be sent by E-mail. Applications for prequalification must be submitted electronically in PDF to the E-mail addresses: procurement@zambezi.org

The closing date is 24 May 2024, 1600 hours CAT.

The Application must be addressed to: The Chief Executive, Zambezi River Authority 32 Cha Cha Road, Lusaka, Zambia, Telephone: +260 211 226950 / 227970/3.

Att. Manager- Procurement