



ADDENDUM NO. 2 AND CLARIFICATIONS TO REQUEST FOR BIDS (RFB)

Project: Supply, Installation, Testing, Commissioning, and Maintenance of Early Warning System (EWS) with Command-and-Control Centres for Kariba Dam

RFB No.: ZM-ZRA-514625-RFB

Date: 06 January 2026

1. Introduction

This document is issued in response to requests for clarification received from prospective Bidders. It contains:

- Section I – Clarifications, which provide explanations and interpretations of the existing provisions of the RFB without changing the requirements; and
- Section II – Addendum No. 2, which introduces formal amendments to the RFB.

All Bidders shall acknowledge receipt of this document in their bid submissions.

Except as explicitly amended under Section II, all other provisions of the RFB, including the Instructions to Bidders, Technical Specifications, General Conditions of Contract (GCC), Special Conditions of Contract (SCC), and submission requirements, remain unchanged.

In case of any inconsistency, the provisions of Section II – Addendum No. 2 shall prevail.

2. Section I – Clarifications (No Change to the RFB)

The following responses are provided for clarification purposes only and do not amend the RFB.

No.	RFB Reference	Query	Clarification / Response
1	Data Logger Display	Equipment includes 10" colour screen instead of specified 7". Is this acceptable?	Yes. The minimum screen size is 7". A 10" screen is acceptable provided it complies with all other requirements, including resolution, power consumption, and environmental durability.

No.	RFB Reference	Query	Clarification / Response
2	Data Logger Display	Given Ethernet connectivity, is a colour screen necessary?	Yes. Colour screens are required for on-site diagnostics, emergency monitoring, and colour-coded alarm visualization.
3	IEC 61131-3 Programming	Is this mandatory and for which functions?	Mandatory. Required for complex alarm logic, local control loops, data pre-processing, and interoperability.
4	Power Supply	Confirm site power phase.	Solar power infrastructure shall be provided by the Bidder in accordance with the RFB.
5	VNC Server	Is a VNC server mandatory?	Yes. Required for remote access, configuration, troubleshooting, and redundancy.
6	Rain Gauge Interface	RS-485 specified but no port defined.	Modbus RS-485, as specified in the RFB.
7	Processor	Is 32-bit RISC mandatory?	32-bit RISC or equivalent architectures meeting performance, power efficiency, and IEC 61131-3 compatibility are acceptable, supported by datasheets.
8	Radar Maximum Range	70 m specified; industry standard is lower.	Mandatory. The 70 m requirement reflects operational needs.
9	Radar Frequency	Conflicting frequencies.	As specified in the RFB.
10	Velocity Radar	No specifications provided.	Equivalent datasheets are acceptable, provided RFB requirements are met.
11	Rain Gauge Resolution	2 mm instead of 5 mm?	Yes. 5 mm or better resolution is acceptable.
12	Rain Gauge Material	Aluminium or stainless steel?	High-grade stainless steel is preferred for a minimum 10–15-year service life.
13	Rain Gauge Mechanism	Double-spoon tipping bucket?	Yes, recommended as industry standard.
14	Rain Gauge Weight	Minimum 2 kg mandatory?	Yes.
15	Data Logger Output	Acceptable formats?	Modbus RS-485, Modbus TCP/IP, and other open industry protocols.

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16	Power System	Sampling frequency for solar sizing?	Continuous online operation is required.
17	Bid Security	Not stated in ITB 19.1.	Bid Security is not applicable.
18	Level Radars	Both operate at 80 GHz?	Yes.
19	Level Radar Connections	M20 × 1.5 / ½" NPT clarification.	Manufacturer-standard cable entries suitable for ambient conditions are acceptable.
20	Discharge Measurement	Measuring range?	0–70 m maximum.
21	Discharge Measurement	Two cable entries mandatory?	Manufacturer-standard solutions are acceptable.
22	Datalogger Programming	Is MicroPython acceptable?	As specified in the RFB.
23	Datalogger Programming	Is UI-based programming acceptable?	As specified in the RFB.
24	Communication System	Can it be integrated into datalogger?	As specified in the RFB.
25	Rain Gauge Resolution	0.5 mm per tip acceptable?	As specified in the RFB.
26	Control Centre Drawings	Request for dimensions.	Approx. 1,000 sq. ft. per centre; bidders to design full ergonomic layouts.
27	Taxation / VAT	Government deductions.	As per applicable laws and the RFB.
28	Site Visits	Request for site photographs.	Site visits were optional; bidders shall rely on provided information and independent assessments.
29	Technical Specifications	Format for further questions.	As specified in the RFB.
30	Brand Neutrality	Are equivalent brands allowed?	Yes, in accordance with the RFB.
31	Water Level Radar Frequency	Conflicting frequencies.	As specified in the RFB.
32	Communication Interface	SDI-12 / Modbus without Wi-Fi/Bluetooth?	As specified in the RFB.
33	Financial Capability	Bank letter modification.	As specified in the RFB.
34	Specific Experience	Alternative criteria.	As specified in the RFB.
35	Similar Work Definition	Acceptable evidence.	Includes EWS or Command & Control projects; POs and completion certificates are acceptable.
36	Technical Compliance	Proof documentation.	Model numbers, catalogues, verified web references, and

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			third-party reports are acceptable.
37	GSM/GPRS Connectivity	Responsibility.	SIM cards and bandwidth charges shall be quoted separately.
38	Command & Control Centres	Floor area and layout.	Approximately 1,000 sq. ft. per centre; ergonomic design required.
39	Bid opening ITB 25.1	Please confirm whether physical attendance by bidders at the Bid Opening is mandatory, or whether bids will be opened in the absence of bidder representatives.	<p>Pursuant to ITB Clause 25.1 (Public Opening of Technical Parts of Bids), the public opening of the Technical Parts of Bids shall take place at the date, time, and location specified in the bidding documents.</p> <p>Attendance at the Bid Opening by bidders or their duly authorized representatives is optional and not mandatory. Bidders who choose not to attend the Bid Opening shall not be disqualified, and such non-attendance shall not affect the validity, responsiveness, or evaluation of their bids.</p>
40	Network coverage	We note that several stations appear to be located in areas with limited or no cellular network coverage. Kindly provide a list of stations where cellular reception is non-existent or near zero.	It is the responsibility of the bidder to check the signal availability. Where cellular network is available, GSM/GPRS communication will be set up by the bidder and where cellular network is not available, alternative source of communication needs to be provided by the bidder.
41	Network coverage	For stations located in areas without cellular coverage (e.g., game reserves such as Mana Pools), please clarify whether the use of Kineis Satellite Communication is acceptable, or whether bidders are required to	It is the responsibility of the bidder to check the signal availability. Where cellular network is available, GSM/GPRS communication will be set up by the bidder and where cellular network is not available, alternative source of

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		include Starlink kits and subscription services in their commercial offer.	communication needs to be provided by the bidder.

3. Section II – Addendum No. 2 (Amendments to the RFB)

Pursuant to the RFB, the following clauses are hereby amended. These amendments shall form an integral part of the Bidding Documents.

3.1 Amendment to technical requirement for the Non-Contact Radar

Revised Provision:

The acceptable measurement range for non-contact radar shall be 0.1 m/s to 15 m/s maximum.

3.2 Amendment to the requirement for OEM / System Warranty

Revised Provision:

The Bidder shall provide a system warranty of eighteen (18) months from the date of installation or twenty-four (24) months from the date of shipment, whichever occurs earlier, irrespective of the OEM warranty

3.3 Amendment to Clause SCC / GCC 28.3 Warranty

Revised Provision:

Clause GCC 28.3 is hereby aligned with the above. The applicable warranty period shall be 18 months from installation or 24 months from shipment, whichever is earlier.

4. Instructions to Bidders

- Bidders shall acknowledge receipt of this Clarification and Addendum in their bid submission.
- Clarifications provided under Section I do not amend the RFB.
- Amendments provided under Section II prevail over earlier provisions of the RFB.
- All other terms and conditions of the RFB remain unchanged.

5. Issuing Authority

Employer / Procuring Entity: Zambezi River Authority

Address: Kariba House, 32, Cha Cha Cha, Lusaka, Zambia

Contact: +260967440029

This Clarification and Addendum No. 2 is issued on behalf of the Employer and is binding on all prospective Bidders.



Misozi L. Mbawo
Manager - Procurement