



# **ZAMBEZI RIVER AUTHORITY**

Web Site: [www.zaraho.org.zm](http://www.zaraho.org.zm)



**Prequalification Document for**

**Procurement of**

**Supply and Installation of an Enterprise Resource**

**Planning System (ERP).**

**Invitation for Prequalification No.: ZRA/ICT/01/2018**

**Client: Zambezi River Authority**

**Country: Zambia & Zimbabwe**

**Issued on: 18 January 2018**

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# **PART 1 – Prequalification Procedures**



# Section I. Instructions to Applicants

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## Section I. Instructions to Applicants

### A. General

1. **Scope of Application**
  - 1.1 In connection with the Invitation for Prequalification indicated in Section II, Prequalification Data Sheet (PDS), the Client, as defined in the **PDS**, issues this Prequalification Document (“Prequalification Document”) to prospective applicants (“Applicants”) interested in submitting applications (“Applications”) for prequalification to bid for the Services described in Section VII, Scope of Services. In case the Services are to be bid as individual contracts (i.e. the slice and package procedure), these are listed in the PDS. The International Competitive Bidding (“ICB”) number corresponding to this prequalification is also provided in the **PDS**.
2. **Source of Funds**
  - 2.1 Zambezi River Authority (hereinafter called “Client”) indicated in the **PDS** has set aside funds for financing various operations during the 2018 budget (hereinafter called “funds”). The Client intends to apply a portion of the funds to eligible payments under the contract(s) resulting from the bidding for which this prequalification is conducted.
3. **Corrupt and Fraudulent Practices**
  - 3.1 The Client requires compliance with its policy in regard to corrupt and fraudulent practices as set forth in Section 4.7.
4. **Eligible Applicants**
  - 4.1 The “Applicant” include all entities involved or intended to be involved with the proposed Services (including all partners and any of their affiliates that directly or indirectly control, or are controlled by or are under common control with the firm), specialized sub-Suppliers, consultants, manufacturers or suppliers and the personnel of each, for any part of the contract including related services.
  - 4.2 An Applicant may be a firm that is a private entity, or public entity—or a combination of such entities in the form of a joint venture (“JV”) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a JV, all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms. The JV shall nominate an authorized representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the prequalification process, bidding (in the event the JV submits a bid) and during contract execution (in the event the JV is awarded the Contract). Unless specified in the **PDS**, there is no limit on the number of members in a JV.

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- 4.3 A firm may apply for prequalification both individually, and as part of a joint venture, or as a sub-Supplier. If prequalified, it will not be permitted to bid for the same contract both as an individual firm and as a part of the joint venture or as a sub-Supplier. However, a firm may participate as a sub-Supplier in more than one bid, but only in that capacity. Bids submitted in violation of this procedure will be rejected.
- 4.4 A firm and any of its affiliates (that directly or indirectly control, are controlled by or are under common control with that firm) may submit its application for prequalification either individually, as joint venture or as a sub-Supplier among them for the same contract. However, if prequalified only one prequalified applicant will be allowed to bid for the same contract. All bids submitted in violation of this procedure will be rejected.
- 4.5 An Applicant may have the nationality of any country, subject to the restrictions pursuant to ITA 5.1. An Applicant shall be deemed to have the nationality of a country if the Applicant is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed specialized sub-Suppliers or suppliers for any part of the Contract including related Services.
- 4.6 Applicants shall not have a conflict of interest. Applicants shall be considered to have a conflict of interest, if they participated as a consultant in the preparation of the design or technical specifications or have been hired or proposed to be hired by the Client as Consultant for contract implementation of the services that are the subject of this prequalification.
- 4.7 An Applicant that has been previously sanctioned by any Government in accordance with the above ITA 3.1, including in accordance with the Prevention and Combating of Corruption shall be ineligible to be prequalified, to bid for, awarded a contract under this tendering process
- 4.8 As in 4.7 above.
- 4.9 An Applicant shall not be under suspension from bidding by the Client as the result of the execution of a Bid-Securing Declaration.
- 4.10 An Applicant shall provide such evidence of eligibility satisfactory to the Client, as the Client shall reasonably request.

5. **Eligibility**                      5.1    Prequalification is open to all nationals.

## **B. Contents of the Prequalification Document**

6. **Sections of Prequalification Document**                      6.1    This Prequalification Document consists of parts 1 and 2 which comprise all the sections indicated below, and which should be read in conjunction with any Addendum issued in accordance with ITA 8.

### PART 1 Prequalification Procedures

- Section I.    Instructions to Applicants (ITA)
- Section II.    Prequalification Data Sheet (PDS)
- Section III    Qualification Criteria and Requirements
- Section IV.    Application Forms

### PART 2 Services Requirements

- Section V.    Scope of Services

- 6.2    Unless obtained directly from the Client, the Client accepts no responsibility for the completeness of the document, responses to requests for clarification, the minutes of the pre-Application meeting (if any), or Addenda to the Prequalification Document in accordance with ITA 8. In case of any discrepancies, documents issued directly by the Client shall prevail.

- 6.3    The Applicant is expected to examine all instructions, forms, and terms in the Prequalification Document and to furnish with its Application all information or documentation as is required by the Prequalification Document.

7. **Clarification of Prequalification Document and Pre-Application Meeting**                      7.1    A prospective Applicant requiring any clarification of the Prequalification Document shall contact the Client in writing at the Client's address indicated in the **PDS**. The Client will respond in writing to any request for clarification provided that such request is received no later than seven (7) days prior to the deadline for submission of the applications. The Client shall forward a copy of its response to all prospective Applicants who have obtained the Prequalification Document directly from the Client, including a description of the inquiry but without identifying its source. If so indicated in the **PDS**, the Client shall also promptly publish its response at the web page identified in the **PDS**. Should the Client deem it necessary to amend the Prequalification Document as a result of a clarification, it shall do so following the procedure under ITA 8 and in accordance with the provisions of ITA 17.2.

- 7.2    If indicated in the **PDS**, the prospective Applicant's designated

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representative is invited at the Applicant's cost to attend a pre-Application meeting at the place, date and time mentioned in the **PDS**. During this pre-Application meeting, prospective Applicants may request clarification of the project requirement, the criteria for qualifications or any other aspects of the Prequalification Document.

- 7.3 Minutes of the pre-Application meeting, if applicable, including the text of the questions asked by Applicants, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Applicants who have obtained the Prequalification Document. Any modification to the Prequalification Document that may become necessary as a result of the pre-Application meeting shall be made by the Client exclusively through the use of an Addendum pursuant to ITA 8. Non-attendance at the pre-Application meeting will not be a cause for disqualification of an Applicant.

**8. Amendment of Prequalification Document**

- 8.1 At any time prior to the deadline for submission of Applications, the Client may amend the Prequalification Document by issuing an Addendum.
- 8.2 Any Addendum issued shall be part of the Prequalification Document and shall be communicated in writing to all prospective Applicants who have obtained the Prequalification Document from the Client. The Client shall promptly publish the Addendum at the Client's web page identified in the **PDS**.
- 8.3 To give prospective Applicants reasonable time to take an Addendum into account in preparing their Applications, the Client may, at its discretion, extend the deadline for the submission of Applications in accordance with ITA 17.2.

## **C. Preparation of Applications**

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| <b>9. Cost of Applications</b>  | 9.1 The Applicant shall bear all costs associated with the preparation and submission of its Application. The Client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the prequalification process.  |
| <b>10. Language of Application</b>                                    | 10.1 The Application as well as all correspondence and documents relating to the prequalification exchanged by the Applicant and the Client, shall be written in the language specified in the <b>PDS</b> . Supporting documents and printed literature that are part of the Application may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the language specified in the <b>PDS</b> , in which case, for purposes of interpretation of the Application, the translation shall govern.  |
| <b>11. Documents Comprising the Application</b>                       | <p>11.1 The Application shall comprise the following:</p> <ul style="list-style-type: none"> <li>(a) Application Submission Form, in accordance with ITA 12.1;</li> <li>(b) documentary evidence establishing the Applicant's eligibility: <b>N/A</b></li> <li>(c) documentary evidence establishing the Applicant's qualifications, in accordance with ITA 14; and</li> <li>(d) any other document required as specified in the <b>PDS</b>.</li> </ul> <p>11.2 The Applicant shall furnish information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Application</p> |
| <b>12. Application Submission Form</b>                                | 12.1 The Applicant shall complete an Application Submission Form as provided in Section IV, Application Forms. This Form must be completed without any alteration to its format.  |
| <b>13. Documents Establishing the Eligibility of the Applicant</b>    | 13.1 To establish its eligibility in accordance with ITA 4, the Applicant shall complete the eligibility declarations in the Application Submission Form. <b>N/A</b>  |
| <b>14. Documents Establishing the Qualifications of the Applicant</b> | <p>14.1 To establish its qualifications to perform the contract(s) in accordance with Section III, Qualification Criteria and Requirements, the Applicant shall provide the information requested in the corresponding Information Sheets included in Section IV, Application Forms.</p> <p>14.2 Wherever an Application Form requires an Applicant to state a monetary amount, Applicants should indicate the USD equivalent</p>   |

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using the rate of exchange determined as follows:

For construction turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.

Value of single contract - Exchange rate prevailing on the date of the contract.

Exchange rates shall be taken from the publicly available source identified in the **PDS**. Any error in determining the exchange rates in the Application may be corrected by the Client.

**15. Signing of the Application and Number of Copies**

- 15.1 The Applicant shall prepare one original of the documents comprising the Application as described in ITA 11 and clearly mark it “ORIGINAL”. The original of the Application shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Applicant. In case the Applicant is a JV, the Application shall be signed by an authorized representative of the JV on behalf of the JV and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized signatories.
- 15.2 The Applicant shall submit copies of the signed original Application, in the number specified in the **PDS**, and clearly mark them “COPY”. In the event of any discrepancy between the original and the copies, the original shall prevail.

**D. Submission of Applications**

**16. Sealing and Identification of Applications**

- 16.1 The Applicant shall enclose the original and the copies of the Application in a sealed envelope that shall:
- (a) bear the name and address of the Applicant;
  - (b) be addressed to the Client, in accordance with ITA 17.1; and
  - (c) bear the specific identification of this prequalification process indicated in the PDS 1.1.
- 16.2 The Client will accept no responsibility for not processing any envelope that was not identified as required in ITA 16.1 above.

**17. Deadline for Submission of Applications**

- 17.1 Applicants may either submit their Applications by mail or by hand. Applications shall be received by the Client at the address and no later than the deadline indicated in the **PDS**. When so specified in the **PDS**, Applicants have the option of submitting their Applications electronically, in accordance with electronic

application submission procedures specified in the **PDS**.

17.2 The Client may, at its discretion, extend the deadline for the submission of Applications by amending the Prequalification Document in accordance with ITA 8, in which case all rights and obligations of the Client and the Applicants subject to the previous deadline shall thereafter be subject to the deadline as extended.

**18. Late Applications**

18.1 The Client reserves the right to accept applications received after the deadline for submission of applications, unless otherwise specified in the **PDS**.

**19. Opening of Applications**

19.1 The Client shall open all Applications at the date, time and place specified in the **PDS**. Late Applications shall be treated in accordance with ITA 18.1.

19.2 Applications submitted electronically (if permitted pursuant to ITA 17.1) shall be opened in accordance with the procedures specified in the **PDS**.

19.3 The Client shall prepare a record of the opening of Applications to include, as a minimum, the name of the Applicants.

## **E. Procedures for Evaluation of Applications**

**20. Confidentiality**

20.1 Information relating to the Applications, their evaluation and result shall not be disclosed to Applicants or any other persons not officially concerned with the prequalification process until the notification of prequalification results is made to all Applicants in accordance with ITA 28.

20.2 From the deadline for submission of Applications to the time of notification of the results of the prequalification in accordance with ITA 28, any Applicant that wishes to contact the Client on any matter related to the prequalification process (except as specified in 20.1 above), may do so only in writing.

**21. Clarification of Applications**

21.1 To assist in the evaluation of Applications, the Client may, at its discretion, ask an Applicant for a clarification (including missing documents) of its Application, to be submitted within a stated reasonable period of time. Any request for clarification from the Client and all clarifications from the Applicant shall be in writing.

21.2 If an Applicant does not provide clarifications and/or documents requested by the date and time set in the Client's request for clarification, its Application shall be evaluated based on the information and documents available at the time of evaluation of the

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Application.

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| <b>22. Responsive-<br/>ness of<br/>Applications</b> | 22.1 The Client may reject any Application which is not responsive to the requirements of the Prequalification Document. In case the information furnished by the Applicant is incomplete or otherwise requires clarification as per ITA 21.1, and the Applicant fails to provide satisfactory clarification and/or missing information, it may result in disqualification of the Applicant.   |
| <b>23. Domestic<br/>Bidder Price<br/>Preference</b> | 23.1 Unless otherwise specified in the <b>PDS</b> , a margin of preference for domestic bidders shall not apply in the bidding process resulting from this prequalification.   |
| <b>24. Sub-Suppliers</b>                            | <p>24.1 Unless otherwise stated in the <b>PDS</b>, the Client does not intend to execute any specific elements of the Services by sub-Suppliers selected in advance by the Client.</p> <p>24.2 The Client may decide to permit subcontracting for certain specialized services as indicated in Section III 4.2, Experience. The Client may do so at its own initiative or at the request of the Applicants during the prequalification process (if justified). When subcontracting is permitted by the Client, the specialized sub-Suppliers experience shall be considered for evaluation. Section III describes the qualification criteria for sub-Suppliers.</p> <p>24.3 Applicants may propose subcontracting to the percentage of the total value of the contract or the volume of services mentioned in the <b>PDS</b> and as further described in ITA 25.2.</p> |

## **F. Evaluation of Applications and Prequalification of Applicants**

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| <b>25. Evaluation of<br/>Applications</b> | <p>25.1 The Client shall use the factors, methods, criteria, and requirements defined in Section III, Qualification Criteria and Requirements, to evaluate the qualifications of the Applicants, and no other methods, criteria, or requirements shall be used. The Client reserves the right to waive minor deviations from the qualification criteria if they do not materially affect the technical capability and financial resources of an Applicant to perform the contract.</p> <p>25.2 Applicants planning to subcontract more than 10% of total volume of work shall specify, in the Application Submission Form, the activity (ies) or parts of the services to be subcontracted along with complete details of the sub-Suppliers and their qualification and experience. The sub-Suppliers proposed shall be fully qualified for their work proposed, and meet the specified criteria in Section III, failing which such sub-Suppliers will not be permitted to participate. The qualification and experience of sub-Suppliers proposed by the</p> |
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Applicant under ITA 24.3 will not be considered for evaluation of the Applicant. The Applicant on its own (without taking into account the qualification and experience of the sub-Supplier) should meet the prequalification criteria.

- 25.3 In case of multiple contracts, Applicants should indicate in their Applications the individual contract or combination of contracts in which they are interested. The Client shall prequalify each Applicant for the maximum combination of contracts for which the Applicant has thereby indicated its interest and for which the Applicant meets the appropriate aggregate requirements. The Qualification Criteria and Requirements are mentioned in Section III. However, with respect to the specific experience under item 4.2 (a) of Section III, the Client will select any one or more of the options as identified below:

N is the minimum number of contracts

V is the minimum value of a single contract

**(a) Prequalification for one Contract:**

Option 1: (i) N contracts, each of minimum value V;

Or

Option 2: (i) N contracts, each of minimum value V, Or

(ii) Less than or equal to N contracts, each of minimum value V, but with total value of all contracts equal or more than  $N \times V$ ;

**(b) Prequalification for multiple Contracts**

Option 1: (i) Minimum requirements for combined contract(s) shall be the aggregate requirements for each contract for which the applicant has applied for as follows, and N1,N2,N3, etc. shall be different contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

----etc.

Or

Option 2: (i) Minimum requirements for combined contract(s) shall be the aggregate requirements for each

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contract for which the applicant has applied for as follows, and N1,N2,N3, etc. shall be different contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

----etc, Or

- (ii) Lot 1: N1 contracts, each of minimum value V1;  
or number of contracts less than or equal to N1,  
each of minimum value V1, but with total value  
of all contracts equal or more than  $N1 \times V1$

Lot 2: N2 contracts, each of minimum value V2;  
or number of contracts less than or equal to N2,  
each of minimum value V2, but with total value  
of all contracts equal or more than  $N2 \times V2$

Lot 3: N3 contracts, each of minimum value V3;  
or number of contracts less than or equal to N3,  
each of minimum value V3, but with total value  
of all contracts equal or more than  $N3 \times V3$

----etc.

Or

- Option 3: (i) Minimum requirements for combined contract(s)  
shall be the aggregate requirements for each  
contract for which the applicant has applied for as  
follows, and N1,N2,N3, etc. shall be different  
contracts:

Lot 1: N1 contracts, each of minimum value V1;

Lot 2: N2 contracts, each of minimum value V2;

Lot 3: N3 contracts, each of minimum value V3;

----etc, Or

- (ii) Lot 1: N1 contracts, each of minimum value V1;  
or number of contracts less than or equal to N1,  
each of minimum value V1, but with total value  
of all contracts equal or more than  $N1 \times V1$

Lot 2: N2 contracts, each of minimum value V2;  
or number of contracts less than or equal to N2,

each of minimum value V2, but with total value of all contracts equal or more than  $N2 \times V2$

Lot 3: N3 contracts, each of minimum value V3; or number of contracts less than or equal to N3, each of minimum value V3, but with total value of all contracts equal or more than  $N3 \times V3$

----etc, Or

(iii) Subject to compliance as per (ii) above with respect to minimum value of single contract for each lot, total number of contracts is equal or less than  $N1 + N2 + N3$  ---but the total value of all such contracts is equal or more than  $N1 \times V1 + N2 \times V2 + N3 \times V3$  +---.

25.4 Only the qualifications of the Applicant shall be considered. In particular, the qualifications of a parent or other affiliated company that is not party to the Applicant under a JV in accordance with ITA 4.2 (or participating as a sub-Supplier as per ITA 25.2) shall not be considered.

**26. Client 's Right to Accept or Reject Applications** 26.1 The Client reserves the right to accept or reject any Application, and to annul the prequalification process and reject all Applications at any time, without thereby incurring any liability to the Applicants.

**27. Prequalification of Applicants** 27.1 All Applicants who's Applications substantially meet or exceed the specified qualification requirements will be prequalified by the Client.  
27.2 An Applicant may be "conditionally prequalified," that is, qualified subject to the Applicant submitting or correcting certain specified nonmaterial documents or deficiencies to the satisfaction of the Client.  
27.3 Applicants that are conditionally prequalified will be so informed along with the statement of the condition(s) which must be met to the satisfaction of the Client before or at the time of submitting their bids.

**28. Notification of Prequalification** 28.1 The Client shall notify all Applicants in writing of the names of those Applicants who have been prequalified or conditionally prequalified. In addition, those Applicants who have been disqualified will be informed separately.  
28.2 Applicants that have not been prequalified may write to the Client to request, in writing, the grounds on which they were disqualified.

**29. Invitation for Bids** 29.1 Promptly after the notification of the results of the prequalification, the Client shall invite bids from all the Applicants that have been

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prequalified or conditionally prequalified.

- 29.2 Bidders may be required to provide a Bid Security or a Bid-Securing Declaration acceptable to the Client in the form and an amount to be specified in the Bidding Documents, and the successful Bidder shall be required to provide a Performance Security as specified in the Bidding Documents.

**30. Changes in  
Qualifications  
of Applicants**

- 30.1 Any change in the structure or formation of an Applicant after being prequalified in accordance with ITA 27 and invited to bid (including, in the case of a JV, any change in the structure or formation of any member thereto) shall be subject to the written approval of the Client prior to the deadline for submission of bids. Such approval shall be denied if (i) a prequalified applicant proposes to associate with a disqualified applicant or in case of a disqualified joint venture, any of its members; (ii) as a consequence of the change, the Applicant no longer substantially meets the qualification criteria set forth in Section III, Qualification Criteria and Requirements; or (iii) in the opinion of the Client, the change may result in a substantial reduction in competition. Any such change should be submitted to the Client not later than seven (7) days after the date of the Invitation for Bids.

## Section II. Prequalification Data Sheet

### A. General

<b>ITA 1.1</b>	<p>The identification of the Invitation for Prequalification is: ZRA/ICT/01/2018</p> <p>The Client is: Zambezi River Authority</p> <p>The description of the contracts is: Supply and Installation of an Enterprise Resource Planning System (ERP).</p>
<b>ITA 2.1</b>	The name of the Client is: Zambezi River Authority
<b>ITA 4.2</b>	Maximum number of members in the JV shall be: 2
<b>ITA 4.8</b>	-

### B. Contents of the Prequalification Document

<b>ITA 7.1</b>	<p>For <b>clarification purposes</b>, the Client 's address is:</p> <p>Zambezi River Authority, Kariba House, 32 Cha Cha Cha Road, Lusaka, Zambia or Club Chambers, Cnr Nelson Mandela/3<sup>rd</sup> Street, Harare, Zimbabwe.</p> <p>Attention: Langton Pfaira</p> <p>Address: Same as above</p> <p>Telephone: Lusaka: +260 211 227 970/1/3 or Harare: +263 (0) 242704031-4</p> <p><b>Mode of sending clarifications is by electronic mail.</b></p> <p>Electronic mail address for clarifications is: <a href="mailto:pfaira@zaraho.org.zm">pfaira@zaraho.org.zm</a></p> <p>Cc: <a href="mailto:navhaya@zaraho.org.zm">navhaya@zaraho.org.zm</a></p>
<b>ITA 7.1 &amp; 8.2</b>	Web page: <a href="http://www.zaraho.org.zm">www.zaraho.org.zm</a>
<b>ITA 7.2</b>	Pre-Application Meeting will be held: <b>NO</b>

### C. Preparation of Applications

<b>ITA 10.1</b>	<p>This Prequalification document has been issued in the English language.</p> <p>All correspondence exchange shall be in English language.</p> <p>The Application as well as all correspondence shall be submitted in English.</p>
<b>ITA 11.1 (d)</b>	The Applicant shall submit with its Application, the following additional documents: <i>Nil</i>
<b>ITA 14.2</b>	The source for determining exchange rates is: Standard Chartered Bank, Zambia
<b>ITA 15.2</b>	In addition to the original, the number of copies to be submitted with the Application is: <b>One original sent electronically in PDF is required.</b>
<b>D. Submission of Applications</b>	
<b>ITA 17.1</b>	<p><b>The deadline for Application submission is:</b></p> <p>Date: 2<sup>nd</sup> March 2018</p> <p>Time: 1600hrs local time.</p> <p><b>Applicants shall submit their Applications electronically.</b></p> <p>The electronic application submission procedure shall be: <i>Submission should be send to the following three e-mail addresses;</i></p> <p><i>Langton Pfaira [ <a href="mailto:pfaira@zaraho.org.zm">pfaira@zaraho.org.zm</a> ]</i></p> <p><i>Cc: Ambrose Navhaya [ <a href="mailto:navhaya@zaraho.org.zm">navhaya@zaraho.org.zm</a> ]</i></p> <p><i>Cc: Catherine Phiri [ <a href="mailto:cphiri@zaraho.org.zm">cphiri@zaraho.org.zm</a> ]</i></p> <p>For <b>application submission purposes only</b>, the Client 's address is:</p> <p>Same as above</p>
<b>ITA 18.1</b>	Late Applications will not be accepted.

<b>ITA 19.1</b>	<p>The recording of the received Applications shall be at:</p> <p>Zambezi River Authority, Kariba House, 32 Cha Cha Cha Road, Lusaka, Zambia</p> <p>Date: 2<sup>nd</sup> March 2018</p> <p>Time: 1600hrs</p>
<b>ITA 19.2</b>	<p>If electronic submission of Applications shall be permitted, electronic Application opening procedures are: The Electronic submissions shall be down loaded from the three e-mail addresses in ITA 17.1, read out, and recorded.</p>
<b>E. Procedures for Evaluation of Applications</b>	
<b>ITA 23.1</b>	<p>A margin of preference shall not apply for eligible domestic bidders.</p>
<b>ITA 24.1</b>	<p>At this time the Client does not intend to execute certain specific parts of the services by sub-Suppliers selected in advance.</p>
<b>ITA 24.3</b>	<p>Maximum percentage of subcontracting permitted is 10% of the total value of the contract.</p> <p>Applicants planning to subcontract more than 10% of total volume of services shall specify, in the Application Submission Form, the activity (ies) or parts of the services to be subcontracted along with complete details of the sub-Suppliers and their qualification and experience. The qualification and experience of the sub-Suppliers must meet the minimum criteria for the relevant services to be subcontracted failing which such sub-Suppliers will not be permitted to participate.</p> <p>Sub-Suppliers' qualification and experience will not be considered for evaluation of the Applicant. The Applicant on its own (without taking into account the qualification and experience of the sub-Supplier) should meet the prequalification criteria.</p>



## Section III. Qualification Criteria and Requirements

### Contents

1. Eligibility .....	<b>Error! Bookmark not defined.</b>
2. Historical Contract Non-Performance .....	<b>Error! Bookmark not defined.</b>
3. Financial Situation .....	<b>Error! Bookmark not defined.</b>
4. Experience.....	<b>Error! Bookmark not defined.</b>

Eligibility and Qualification Criteria		Compliance Requirements					Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	
1. Eligibility							
1.1	Nationality	Nationality in accordance with ITA Sub-Clause 4.5	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Forms ELI – 1.1 and 1.2, with attachments
1.2	Conflict of Interest	No conflicts of interest in ITA Sub-Clause 4.6	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Application Submission Form
2. Historical Contract Non-Performance							
2.1	History of Non-Performing Contracts	Non-performance of a contract <sup>1</sup> did not occur as a result of Supplier’s default since 1 <sup>st</sup> January 2013 .	Must meet requirement <sup>2</sup>	Must meet requirement	Must meet requirement <sup>2</sup>	N/A	Form CON-2
2.2	Suspension Based on Execution of Bid Securing Declaration by the Client named in the IFP	Not under suspension based on execution of a Bid Securing Declaration pursuant to ITA 4.10.	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Application Submission Form
2.3	Pending Litigation	Applicant’s financial position and prospective	Must meet requirement	N/A	Must meet requirement	N/A	Form CON – 2

<sup>1</sup> Non performance, as decided by the Client, shall include all contracts where (a) non performance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Non performance shall not include contracts where Client decision was overruled by the dispute resolution mechanism. Non performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the Applicant have been exhausted.

<sup>2</sup> This requirement also applies to contracts executed by the Applicant as JV member.

Eligibility and Qualification Criteria							
Eligibility and Qualification Criteria				Compliance Requirements			Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	
		long term profitability still sound according to criteria established in 3.1 below and assuming that all pending litigation will be resolved against the Applicant					
2.4	<b>Litigation History</b>	No consistent history of court/arbitral award decisions against the Applicant <sup>3</sup> since 1 <sup>st</sup> January 2013	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON – 2
<i>Years should usually be one or two years prior.</i>							
<b>3. Financial Situation</b>							
3.1	<b>Financial Capabilities</b>	(i) The Applicant shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the ERP cash flow requirements estimated as USD \$ 2,000,000.00 for the subject contract(s) net of the	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 3.1, with attachments

<sup>3</sup> The Applicant shall provide accurate information on the related Application Form about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of awards against the Applicant or any member of a joint venture may result in failure of the application.

Eligibility and Qualification Criteria		Compliance Requirements					Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	
		Applicants other commitments (ii) The Applicant shall also demonstrate, to the satisfaction of the Client, that it has adequate sources of finance to meet the cash flow requirements on information communication and technology services currently in progress and for future contract commitments. (iii) The audited financial statements acceptable to the Client, for the last <i>three (3)</i> years shall be submitted and must demonstrate the current soundness of the Applicant's financial position and indicate its prospective long-term profitability.	Must meet requirement	Must meet requirement	N/A	N/A	
			Must meet requirement	N/A	Must meet requirement	N/A	

Eligibility and Qualification Criteria							
Eligibility and Qualification Criteria				Compliance Requirements			Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	
3.2	<b>Average Annual Technology Turnover</b>	Minimum average annual turnover in information communication and technology services of US\$ 1,000,000.00 (One Million United States Dollars, calculated as total certified payments received for contracts in progress or completed, within the last <i>five (5)</i> years	Must meet requirement	Must meet requirement	Must meet <i>[insert number] %</i> , <i>[insert percentage in words]</i> of the requirement	Must meet <i>[insert number] %</i> , <i>[insert percentage in words]</i> of the requirement	Form FIN – 3.2
<b>4. Experience</b>							
4.1 (a)	<b>General Experience in Information Communication and Technology Services</b>	Experience under information communication and technology services contracts in the role of prime Supplier, JV member, sub-Supplier, or management Supplier for at least the last <i>Five(5)</i> years, starting 1 <sup>st</sup> January 2013_____	Must meet requirement	N/A	Must meet requirement	N/A	Form EXP – 4.1

Eligibility and Qualification Criteria		Compliance Requirements					Documentation
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	
4.2 (a)	Specific Contract Management Experience in Supply and Installation of ERP Systems	(i) A minimum number of similar <sup>4</sup> contracts specified below that have been satisfactorily and substantially <sup>5</sup> completed as a prime Supplier, joint venture member <sup>6</sup> , management Supplier or sub-Supplier <sup>6</sup> between 1st January 2013 and application submission deadline: (i) minimum three (3) contracts in supply and installation of ERP systems, each of minimum value USD 1,000,000.00;	Must meet requirement	Must meet requirement <sup>7</sup>	N/A	N/A	Form EXP 4.2(a)

<sup>4</sup> The similarity shall be based on the physical size, complexity, methods/technology and/or other characteristics described in Section VI, Scope of information and communication technology services. Summation of number of small value contracts (less than the value specified under requirement) to meet the overall requirement will not be accepted.

<sup>5</sup> Substantial completion shall be based on 80% or more information and communication technology services completed under the contract.

<sup>6</sup> For contracts under which the Applicant participated as a joint venture member or sub-contractor, only the Applicant's share, by value, shall be considered to meet this requirement.

<sup>7</sup> In the case of JV, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity. In determining whether the JV meets the requirement of total number of contracts, only the number of contracts completed by all members each of value equal or more than the minimum value required shall be aggregated.

Eligibility and Qualification Criteria			Compliance Requirements			Documentation	
No.	Subject	Requirement	Single Entity	Joint Venture			Submission Requirements
				All Parties Combined	Each Member	One Member	



## Section IV. Application Forms

### Table of Forms

<b>Application Submission Form .....</b>	<b>32</b>
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<b>Average Annual Construction Turnover.....</b>	<b>38</b>
<b>General Construction Experience .....</b>	<b>39</b>
<b>Construction Experience in Key Activities.....</b>	<b>Error! Bookmark not defined.</b>

## Application Submission Form

Date: *[insert day, month, and  
year]*

No. and title: *[insert ICB number and title]*

To: *[insert full name of Client]*

We, the undersigned, apply to be prequalified for the referenced ICB and declare that:

- (a) We have examined and have no reservations to the Prequalification Document, including Addendum(s) No(s)., issued in accordance with Instructions to Applicants (ITA) 8: *[insert the number and issuing date of each addendum]*.
- (b) We have no conflict of interest in accordance with ITA 4.6;
- (c) We meet the eligibility requirements as stated ITA 4.1, we have not been suspended by the Client based on execution of a Bid Securing Declaration in accordance with ITA 4.10;
- (d) We, in accordance with ITA 24.2, plan to subcontract the following key activities and/or parts of the services:

*[Insert any of the key activities identified in Section III- 4.2(a) or (b) which the Client has permitted under the Prequalification document and which the Applicant intends to subcontract along with complete details of the sub-Suppliers, their qualification and experience]*

- (e) We declare that the following commissions, gratuities, or fees have been paid or are to be paid with respect to the prequalification process, the corresponding bidding process or execution of the Contract:

<u>Name of Recipient</u>	<u>Address</u>	<u>Reason</u>	<u>Amount</u>
<i>[insert full name for each occurrence]</i>	<i>[insert street/ number/city/country]</i>	<i>[indicate reason]</i>	<i>[specify amount currency, value, exchange rate and US\$ equivalent]</i>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

*[If no payments are made or promised, add the following statement: "No commissions or gratuities have been or are to be paid by us to agents or any third party relating to this Application"]*

- (f) We understand that you may cancel the prequalification process at any time and that you are neither bound to accept any Application that you may receive nor to invite the prequalified Applicants to bid for the contract subject of this prequalification process, without incurring any liability to the Applicants, in accordance with ITA 26.1.
- (g) All information, statements and description contained in the Application are in all respect true, correct and complete to the best of our knowledge and belief.

Signed *[insert signature(s) of an authorized representative(s) of the Applicant]*

Name *[insert full name of person signing the Application]*

In the capacity of *[insert capacity of person signing the Application]*

Duly authorized to sign the Application for and on behalf of:

Applicant's Name *[insert full name of Applicant or the name of the JV]*

Address *[insert street number/town or city/country address]*

Dated on *[insert day number]* day of *[insert month]*, *[insert year]*

[For an a joint venture, either all members shall sign or only the authorized representative, in which case the power of attorney to sign on behalf of all members shall be attached]

## Form CON – 2

### Historical Contract Non-Performance, Pending Litigation and Litigation History

*[The following table shall be filled in for the Applicant and for each member of a Joint Venture]*

Applicant's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Party Name: *[insert full name]*

ICB No. and title: *[insert ICB number and title]*

Page *[insert page number]* of *[insert total number]* pages

Non-Performed Contracts in accordance with Section III, Qualification Criteria and Requirements			
<input type="checkbox"/> Contract non-performance did not occur since <b>1<sup>st</sup> January 2013</b> specified in Section III, Qualification Criteria and Requirements, Sub-Factor 2.1.			
<input type="checkbox"/> Contract(s) not performed since <b>1<sup>st</sup> January 2013</b> specified in Section III, Qualification Criteria and Requirements, requirement 2.1			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i>  Name of Client: <i>[insert full name]</i>  Address of Client: <i>[insert street/city/country]</i>  Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Qualification Criteria and Requirements			
<input type="checkbox"/> No pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2.			
<input type="checkbox"/> Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2 as indicated below.			

<b>Year of dispute</b>	<b>Amount in dispute (currency)</b>	<b>Contract Identification</b>	<b>Total Contract Amount (currency), USD Equivalent (exchange rate)</b>
<i>[insert year]</i>	<i>[insert amount]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Client: <i>[insert full name]</i> Address of Client: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Client" or "Supplier"]</i> Status of dispute: <i>[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i>	<i>[insert amount]</i>
<input type="checkbox"/> No pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2. <input type="checkbox"/> Pending litigation in accordance with Section III, Qualification Criteria and Requirements, Sub-Factor 2.2 as indicated below.			
<b>Year of award</b>	<b>Outcome as percentage of Net Worth</b>	<b>Contract Identification</b>	<b>Total Contract Amount (currency), USD Equivalent (exchange rate)</b>
<i>[insert year]</i>	<i>[insert percentage]</i>	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Client: <i>[insert full name]</i> Address of Client: <i>[insert street/city/country]</i> Matter in dispute: <i>[indicate main issues in dispute]</i> Party who initiated the dispute: <i>[indicate "Client" or "Supplier"]</i> Status of dispute: <i>[Indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i>	<i>[insert amount]</i>

## Form FIN – 3.1

### Financial Situation and Performance

*[The following table shall be filled in for the Applicant and for each member of a Joint Venture]*

Applicant's Name: *[insert full name]*

Date: *[insert day, month, and year]*

Applicant's Party Name: *[insert full name]*

ICB No. and title: *[insert ICB number and title]*

Page *[insert page number]* of *[insert total number]* pages

#### 1. Financial data

Type of Financial information in (currency)	Historic information for previous three (3) years, (amount in currency, currency, exchange rate*, USD equivalent)				
	Year 1	Year 2	Year 3	Year4	Year 5
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

\* Refer ITA 14 for the exchange rate

## 2. Sources of Finance

*[The following table shall be filled in for the Applicant and all parties combined in case of a Joint Venture]*

Specify sources of finance to meet the cash flow requirements on services currently in progress and for future contract commitments.

No.	Source of finance	Amount (US\$ equivalent)
1		
2		
3		

## 3. Financial documents

The Applicant and its parties shall provide copies of financial statements for *Three (3)* years pursuant Section III, Qualifications Criteria and Requirements, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Applicant or in case of JV member , and not an affiliated entity (such as parent company or group member).
- (b) be independently audited or certified in accordance with local legislation.
- (c) be complete, including all notes to the financial statements.
- (d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements<sup>8</sup> for the *[number]* years required above; and complying with the requirements

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<sup>8</sup> If the most recent set of financial statements is for a period earlier than 12 months from the date of application, the reason for this should be justified.

## Form FIN - 3.2

### Average Annual Turnover

*[The following table shall be filled in for the Applicant and for each member of a Joint Venture]*

Applicant's/Joint Venture Member's Name: *[insert full name]*

Date: *[insert day, month, year]*

Applicant's Party Name: *[insert full name]*

ICB No. and title: *[insert ICB number and title]*

Page *[insert page number]* of *[insert total number]* pages

Annual turnover data (construction only)			
Year	Amount Currency	Exchange rate*	USD equivalent
<i>[indicate calendar year]</i>	<i>[insert amount and indicate currency]</i>		
		Average Annual Turnover **	

\* Refer ITA 14 for date and source of exchange rate.

\*\* Total USD equivalent for all years divided by the total number of years. See Section III, Qualification Criteria and Requirements, Clause 3.2.

## Form EXP - 4.1

### General Experience

*[The following table shall be filled in for the Applicant and in the case of a JV Applicant, each Member]*

Applicant's/Joint Venture Member's Name: *[insert full name]*

Date: *[insert day, month, year]*

Applicant JV Party Name: *[insert full name]*

ICB No. and title: *[insert ICB number]*

Page *[insert page number]* of *[insert total number]* pages

*[Identify contracts that demonstrate continuous work over the past five (5) years pursuant to Section III, Qualification Criteria and Requirements, Sub-Factor 4.1. List contracts chronologically, according to their commencement (starting) dates.]*

<b>Starting Year</b>	<b>Ending Year</b>	<b>Contract Identification</b>	<b>Role of Applicant</b>
<i>[indicate year]</i>	<i>[indicate year]</i>	Contract name: <i>[insert full name]</i> Brief Description of the Services performed by the Applicant: <i>[describe services performed briefly]</i> Amount of contract: <i>[insert amount in currency, mention currency used, exchange rate and US\$ equivalent*]</i> Name of Client: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>[insert "Prime Supplier" or "JV Member" or "Sub-Supplier" or "Management Supplier"]</i>
		Contract name: <i>[insert full name]</i> Brief Description of the Services performed by the Applicant: <i>[describe services performed briefly]</i> Amount of contract: <i>[insert amount in currency, mention currency used, exchange rate and US\$ equivalent*]</i> Name of Client: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>[insert "Prime Supplier" or "JV Member" or "Sub-Supplier" or "Management Supplier"]</i>
		Contract name: <i>[insert full name]</i> Brief Description of the Services performed by the Applicant: <i>[describe services performed briefly]</i> Amount of contract: <i>[insert amount in currency, mention currency used, exchange rate and US\$ equivalent*]</i> Name of Client: <i>[indicate full name]</i> Address: <i>[indicate street/number/town or city/country]</i>	<i>[insert "Prime Supplier" or "JV Member" or "Sub-Supplier" or "Management Supplier"]</i>

\* Refer ITA 14 for date and source of exchange rate.

## Form EXP - 4.2(a)

### Specific Contract Management Experience

*[The following table shall be filled in for contracts performed by the Applicant, each member of a Joint Venture, and Specialized Sub-Suppliers]*

Applicant's/Joint Venture Member's Name: *[insert full name]*

Date: *[insert day, month, year]*

JV Party Name: *[insert full name]*

ICB No. and title: *[insert ICB number and title]*

Page *[insert page number]* of *[insert total number]* pages

<b>Similar Contract No.</b> <i>[insert number] of [insert number of similar contracts required]</i>	<b>Information</b>			
Contract Identification	<i>[insert contract name and number, if applicable]</i>			
Award date	<i>[insert day, month, year, i.e., 15 June, 2015]</i>			
Completion date	<i>[insert day, month, year, i.e., 03 October, 2017]</i>			
Role in Contract <i>[check the appropriate box]</i>	Prime Supplier <input type="checkbox"/>	Member in JV <input type="checkbox"/>	Management Supplier <input type="checkbox"/>	Sub-Supplier <input type="checkbox"/>
Total Contract Amount	<i>[insert total contract amount in local currency]</i>		US\$ <i>[insert Exchange rate and total contract amount in US\$ equivalent]*</i>	
If member in a JV or sub-Supplier, specify participation in total Contract amount	<i>[insert a percentage amount]</i>	<i>[insert total contract amount in local currency]</i>	<i>[insert exchange rate and total contract amount in US\$ equivalent]*</i>	
Client 's Name:	<i>[insert full name]</i>			
Address:	<i>[indicate street / number / town or city / country]</i>			
Telephone/fax number	<i>[insert telephone/fax numbers, including country and city area codes]</i>			
E-mail:	<i>[insert e-mail address, if available]</i>			

\* Refer ITA 14 for date and source of exchange rate.

**Form EXP - 4.2(a) (cont.)**  
**Specific Contract Management Experience (cont.)**

<b>Similar Contract No.</b> <i>[insert number] of [insert number of similar contracts required]</i>	<b>Information</b>
Description of the similarity in accordance with Sub-Factor 4.2(a) of Section III:	
1. Amount	<i>[insert amount in local currency, exchange rate, US\$ in words and in Figures]</i>
2. Physical size of required services items	<i>[insert physical size of items]</i>
3. Complexity	<i>[insert description of complexity]</i>
4. Methods/Technology	<i>[insert specific aspects of the methods/technology involved in the contract]</i>
5. Construction rate for key activities	<i>[insert rates and items]</i>
6. Other Characteristics	<i>[insert other characteristics as described in Section VII, Scope of Services]</i>

## **PART 2 – Enterprise Resource Planning System Requirements**

## **Section VII. Scope of Services**

### **Contents**

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2. Supply and Installation Period .....	2
3. Site and Other Data .....	2

# 1. Description of the Services

The object of the services is to:

- Supply of predominantly packaged software, capable of meeting the Authority's business objectives, processes and requirements as detailed in the Statement of User Requirements document (SOUR).
- Carry out analysis, design and development of necessary enhancements to the applications and report generation;
- Process reengineering where necessitated by the application software, in line with the Authority's business objectives and organisational structure;
- Site preparation, installation and setting up of the new system;
- Documentation and handover to the Authority of all installation, configuration, housekeeping, processes, functional requirements and steps involved in the new ERP system to enable the Authority to have reference materials to fall back on when the supplier is no longer onsite;
- Implementation and any support for the setting up of the new system to meet the stated requirements.
- Suitable training of the Authority's staff on application software and system software to enable them to obtain optimum benefit from the system

# 2. Construction Period

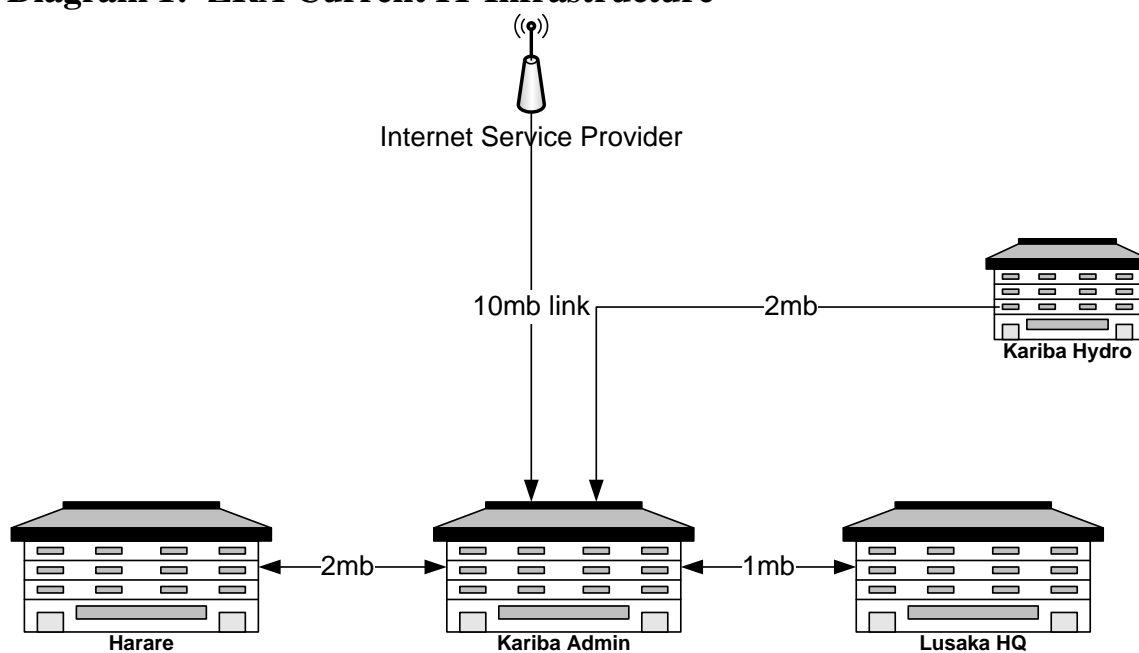
The expected completion time for the services is 18 months

# 3. Site and Other Data

## Network Topology

The diagram below illustrates the current ZRA IT Network Infrastructure:

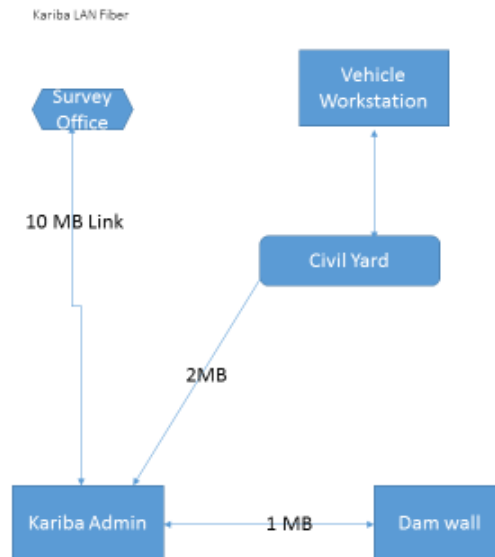
The topology has a backbone of fiber linking the various offices as shown in the diagram below.

**Diagram 1: ZRA Current IT Infrastructure**

## Kariba Proposed LAN Fiber Topology

This fiber network is in the process of being implemented.

**Diagram 2: ZRA LAN Fiber Topology**



The Kariba LAN Fiber network is work in progress.

## Network WAN/LAN

The ZRA network in all offices has a fiber backhaul. There is fiber extension in Kariba being implemented to reach data source sites like Dam wall. There are three Internet breakout gateways for ZRA one, two(2) at Kariba House Zambia to a local ISP, providing Internet and email and a second breakout gateway in Kariba admin Block Zimbabwe, providing Internet on a 10 MB link. There are no firewalls for perimeter security within the ZRA enterprise network. The network is switched by a Cisco switch and routed by Cisco routers. The WIFI in various offices has dark corners that don't reach signal.

## Hydrometeorological Stations

The Hydrometeorological Stations are a critical element of the ZRA functions constituting part of the Early Warning Network. Each Station represents a specific location on the network as they have to relay information to either Kariba or Lusaka.

Stations are using HF Radio and Automated Data Collection Platform (Telemetry) which right now is out of commission.

**Table 1: Hydrometeorological Network Stations**

S/No.	Station Name	Shortest Road Distance in km (and approx. hours) from		Remarks
		Lusaka	Kariba (Zim)	
1	Zambezi River at Chavuma Mission	758 km 10h	931 km 13h	Station on ZRA + SADC-Hycos DCP Telemetry network with new WARMA Telemetry Station
2	Kabompo River at Watopa Pontoon	581 km 7h	755 km 10	Station on SADC-Hycos DCP Telemetry network
3	Zambezi River at Lukulu	600 km 8h	773 km 10h	Stage-only station with new WARMA Telemetry Station
4	Little Zambezi River at Matongo Platform	598 km 7h	772 km 10h	Station on ZRA DCP Telemetry network
5	Luanginga River at Kalabo	680 km 8h	852 km 10h	Station on ZRA DCP Telemetry network with new WARMA Telemetry Station
6	Zambezi River at Senanga (via Mongu)	701 km 9h	874 km 11h	Stage-only station with new WARMA Telemetry Station
7	Zambezi River at Sesheke	676 km 8h	813 km 9h	Stage-only station with new WARMA Telemetry Station
8	Zambezi River at Ngonye (via Mongu from Lsk and via Livingstone from Kariba)	773 km 10h	946 km 13h	Station on ZRA DCP Telemetry network



HP ProLiant DL380p Gen8	2TB	16GB
Dell PowerEdge R430	1TB	16GB
Dell PowerEdge R430	1TB	16GB
HP ProLiant ML350	300GB	12GB

### Databases

The only database in use is SQL server 2014, the rest of the system are not on any database they use Excel and flat files.

### Hardware

The hardware is HP for servers and Cisco for networking from routing to switching. Virtualization is used using Hyper-V and VMware for virtualization. The UPS is APC brand

### Mongu: Zambia

Mongu is a Hydrological station, the purpose of the site is to capture information from the Zambezi River Basin using two systems, one Manual reading and the other is in an automated Aurore 200 system with Sensors that are immersed in water to get the reading for:

- Water Level
- Water Temperature
- Water PH
- Dissolved Oxygen

The only system that was working is the manual system that only gives the Water level, the automated system is switched off.

### Kariba: Zimbabwe

Systems that monitor the dam wall are still manual and are not connected to a multi system that can allow other users to view the parameters if need arises.

Most of the Expert system used to manage, monitor and evaluate are installed on individual PCs and the systems are not networked except AMPRO and the Finance system at Lusaka HQ

### Harare: Zimbabwe

The Harare office is connected to all the other offices via a network routing at TCPIP level.

### Microsoft Domain Architecture:

The ZRA domain architecture has one domain **Zambezi.org**, which is managed centrally at Lusaka head office with a replica at Kariba Admin