

**KARNATAKA _ STATE PROJECT MONITORING UNIT, WRDO
DAM REHABILITATION & IMPROVEMENT PROJECT
O/o the Chief Engineer, Water Resources Development Organisation, Ananda rao Circle,
Bengaluru, Karnataka**

No: CE/WRDO/SPMU/BNG/DRIP/EOI/2016-17/02

Dated: 20.07.2016

National Competitive Bidding

Invitation For Expression of Interest (EOI) For Consultancy for Preparation of Emergency Action Plan (EAP), Dam break Analysis & Preparation of Inundation map for Karanja, Bennethore, Amarja, Chandrampalli, LowerMullamari, UpperMullamari, and Hattikuni dams on behalf of Chief Engineer, KNNL, IPZ, Kalaburgi.

A request vide letter no:KNNL/IPZ/CE/TA-3/AE/2016-17/835 Dated:21.06.2016 has been received from the Chief Engineer, KNNL, Irrigation Project Zone, Kalaburgi for shortlisted empanelled consultants to entrust the work of preparation of EAP, Dam Break analysis & preparation of Inundation map for Karanja, Bennethore, Amarja, Chandrampalli, LowerMullamari, UpperMullamari, and Hattikuni dam. In response to the above mentioned letter the EOI is invited on behalf of Chief Engineer, KNNL, IPZ, Kalaburgi.

The Government of Karnataka through Government of India has received a credit from the International Development Association (IDA)/ loan from the International Bank for Reconstruction & Development (IBRD) towards the cost of Dam Rehabilitation and Improvement Project (DRIP) and intends to apply a part of the funds to cover eligible payments under the contracts for various works under DRIP.

Karnataka State Project Monitoring Unit for DRIP intends to conduct the Dam Break Analysis (DBA), Preparation of inundation maps & preparation of Emergency Action Plan (EAP) for Karanja, Bennethore, Amarja, Chandrampalli, LowerMullamari, UpperMullamari, and Hattikuni dams of Karnataka under DRIP through a consultancy contract. The Consultancy is proposed to be arranged as 'QCBS basis as per IBRD guidelines.

As a part of the above, the Chief Engineer, Water Resources Department Organization & Nodal Officer(DRIP), Ananda rao circle, Bengaluru, Karnataka is inviting "**Expression of Interest**"(EOI) from technically & financially competent consulting/engineering firms having experience in the field of conducting Dam Break Analysis(DBA), Preparation of inundation maps and preparation of Emergency action plan for dams. Karnataka SPMU shall be coming out with a Request for Proposal (RFP) for the selection of the consultant for the work.

The Expression of Interest shall be offered through **e-procurement portal** only. Bidders are advised to note the minimum qualification criteria as specified in the bid document for short listing of consultants.

The details regarding the Expression of Interest, access to e-tender document, submission of e-tender & opening of e-tenders are as given below:

Sl. No	Description of work	Approximate amount put to tender (Rs.in lakhs)	Stipulated period of completion
1	Expression of Interest (EOI) For Consultancy for Preparation of Emergency Action Plan (EAP), Dam break Analysis & Preparation of Inundation map for Karanja,Bennethore,Amarja,Chandrampalli, LowerMullamari, UpperMullamari, and Hattikuni dams	49.00	12 months

Calendar of Events are as follows:

Sl.No	Details of Calendar of events	Date
1	Date from which EoI document available in e- procurement portal for downloading (www.eproc.karnataka.gov.in)	27.07.2016
2	Last date of submission of EoI	27.08.2016
3	Date of Opening of bids	30.08.2016
4	Date of presentation by firm /agency	Will be intimated after receiving EOI
5	Contact No.	080 22259985
6	E-mail	superengrmande@yahoo.co.in

Scope of Work

The Scope of work includes, but not restricted to, the following:

➤ **Conducting Dam Break Analysis:**

1. Dam Break Analysis (DBA) in condition of fair weather at Maximum Water Level (MWL) condition.
2. Dam Break Analysis (DBA) in condition of bad weather, i.e. considering the inflow entering in the reservoir due to Probable Maximum Flood (PMF)/ Standard Project Flood (SPF) at MWL condition.
3. Routing of PMF/SPF (without dam break scenario).
4. Routing of spillway discharge that may be safe for the dam but cause emergency conditions in the areas downstream.
5. Assessment of safe carrying capacity of the downstream channel and safe levels evaluation.

➤ **Preparation of Inundation Map:**

The maps should be prepared for the following cases at the desired scale, according to the dam break studies carried out.

1. DBA in condition of fair weather.

2. DBA in condition of bad weather considering the PMF or the Design Flood. Spontaneous water release from spillways and gates.
3. Flooding from spillways generated by PMF or Design Flow (without dam break scenario) that are dangerous for the areas downstream
4. Procurement of toposheets/ detailed contour maps(preferably 1:25000) of the downstream area likely to be inundated by the dam break flood wave would be required for simulating the spread of water & its depth for various scenarios of dam break flood wave simulation.
5. Preparation of river/stream cross section details downstream of the dam for an interval of 250m upto the distance of to which the inundation map is required to be generated as per the direction of engineer in charge.

➤ **Preparation of Emergency Action Plan (EAP)**

The Emergency Action Plan should be prepared in accordance with the guidelines of CWC May 2006/February, 2016 available in the web site <http://www.damsafety.in>

➤ **Deliverables and Final Output**

For each dam, the output & deliverables will include, but will not be limited to, the following:

1. Inception Report
2. Monthly progress report
3. Satellite Images or result of other type surveys
4. Topographic Maps on paper, digital support and Digital Terrain Model (DTM)
5. Draft Dam Break Analysis studies,
6. Inundation maps for the various condition specified, or as agreed with Client
7. FINAL Dam Break Analysis Report with all annexes.
8. Soft copy of input & output file of DBA
9. Draft Emergency Action Plan
10. FINAL Emergency Action Plan

The above deliverables & final output shall have to be submitted to the concerned Executive Engineer of the divisions.

➤ **Qualifying Criteria for Submission of EOI**

1. The firm/Consultant which intends to submit EOI shall have completed the preparation of EAP at least for one project complying the requirements as per the guidelines issued by Central Water Commission (CWC).
2. The firm/Consultant should have achieved annual turnover in any one of the last 3 consecutive years (i.e. 2013-2014, 2014-15& 2015-2016) shall be more than Rs.50.00 lakhs.
3. The firm /Consultant must have successful experience of executing at least one similar project/s in last five calendar years including 2016.
4. The firm/Consultant including the joint venture partners should have at least 40% of potential core staff including Team leader as permanent employees.
5. The firm/Consultant should have equipments and technical expertise and skilled labour for conducting survey work, data collection, analysis and preparation of EAP.

➤ **Contents of EOI**

The firm shall submit the EOI incorporating the following details to support the qualifying criteria and experience;

1. Copy of valid registration certificate of the firm

2. Audited financial statement for the last three financial years
3. Experience certificate issued by the Employer for the similar type of work executed by the firm
4. Indication of key staff likely to be engaged for the work along with their CV
5. Methodology which they are going to adopt for the work including mode of sourcing and collection of required data
6. Details of the software proposed to be used for the work
7. Necessary proof of experience, availability of skilled manpower and suitable equipments

➤ **General Conditions:**

1. The intending firm shall demonstrate that they have the suitable methods and capability to complete the work by conducting a presentation before SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO at Bengaluru, Karnataka. They must also demonstrate previous experience on similar projects.
2. The details of the software proposed to be adopted; work plan and logistics should be clearly indicated in the EOI by the firm.
3. All equipments required for the survey work and data collection shall be provided by the firm. All the necessary data required for the study shall be collected/procured by the firm.
4. The conveyance and security of equipments, accommodation of the staff/ laborer etc. required for the work shall be the responsibility of the firm.
5. The firm may conduct site inspection before submission of EOI.
6. The firm shall bear all costs associated with the preparation and submission of their EOI.
7. The EOI is intended to enable SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO to gain a better understanding from market about the technological development in the field of conducting DBA and preparation of EAP but in no way forms any commitment or indication of any business from SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO.
8. Interested firm may obtain further information about submitting the EOI from SPMU, the office of the Chief Engineer, Water Resources Department Organization & Nodal Officer(DRIP), Ananda rao circle, Bengaluru-560009, Karnataka.
9. The submission of EOI shall not automatically guarantee selection of the firm for Request For Proposal process.
10. Consultants may associate to enhance their qualifications. Consultants may associate with other firms in the form of a joint venture or a sub consultancy to enhance their qualifications. The nature of association should be clearly indicated in the EOI.
11. The attention of interested Consultants is drawn to paragraph 1.9 of the World Bank's Guidelines: Selection and Employment of Consultants [under IBRD Loans and IDA Credits & Grants] by World Bank Borrowers January 2011 revised July 2104 ("Consultant Guidelines"), setting forth the World Bank's policy on conflict of interest.
12. Consultants will be selected in accordance with the procedures set out in the WorldBank's Guidelines: Selection and Employment of Consultants under IBRD Loans & IDA Credits & Grants by World Bank Borrowers dated January 2011, as revised July 2014.
13. The consultant/bidders can download the Expression of Interest (EOI) comprising 'Short Listing Criteria' and 'Scope of Work' from the e-procurement platform (www.eproc.karnataka.gov.in) from 27.07.2016 10 00hrs (IST) onwards. The Bidders need to submit the EOI along with all relevant documents online through e-procurement platform

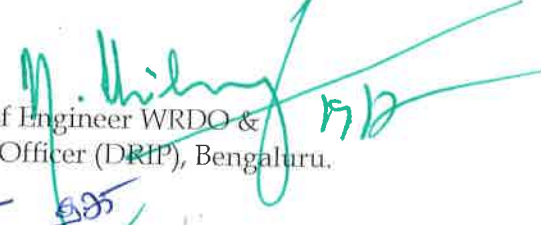
www.eproc.karnataka.gov.in). Last date/time for receipt of bid through e-procurement is on 27.08.2016 upto 1700hrs (IST). Late and offline bids shall not be accepted.

14. Joint venture is allowed & shall not have more than 2 members. One of the members should be a lead member. The Joint Venture shall clearly list out the roles & responsibility of each partner under the project.
15. The selected consultants shall have to enter into an agreement with the concerned Executive Engineer of the division mentioned in the bid document.
16. SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO reserves the right to accept or reject any application and/annul the selection process and reject all application at any time without assigning any reason thereof. No liability other than giving information regarding the above to the applicant shall rest with SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO.
17. The discretion and decision of SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO in respect of the EoI shall be final.

For any clarification, the bidders are requested to contact SPMU, Office of the Chief Engineer & Nodal officer (DRIP), WRDO, Anandarao circle, Bengaluru, Karnataka.

Contact No.080-22259985

Email: superengrmande@yahoo.co.in


Chief Engineer WRDO &
Nodal Officer (DRIP), Bengaluru.

Copy submitted for kind information to:

1. Principal Secretary, water resources Department, Vikasa soudha, Bengaluru.
2. Secretary to the Government, water resources Department, Vikasa soudha, Bengaluru.
3. Managing Director, Karnataka Neeravari Nigam Limited, Bengaluru.
4. The Project Director (DRIP) & Director (DSR), Central water Commission, Dam safety(Rehabilitation) Directorate, 3rd Floor, CWC Library Building, Near Sewa Bhawan, R.K. Puram, New Delhi - 110066 for kind information & further needful action.
5. The State tender bulletin officer, o/o the secretary, water resources department with a request to publish the notification in the state tender bulletin.

Copy for information to:

1. Chief Engineer, KNNL, IPZ, Kalaburagi.
2. Superintending Engineer, IPC circle, Kalaburagi.
3. Executive Engineer, KNNL, IPC Division No.1, Kalaburagi.
4. Executive Engineer, KNNL, Bennithora Project Division, Hebbal.
5. Executive Engineer, KNNL, KPC Division No.2, Bhalki.
6. Executive Engineer, KNNL, KPC Division No.1, Bidar.


Chief Engineer WRDO &
Nodal Officer (DRIP), Bengaluru