

**EXPRESSION OF INTEREST (EOI)  
FOR DETAILED PRESENTATION REGARDING  
THE TECHNOLOGY USED FOR DESILTING  
OF RESERVOIRS**

EOI No: 01/2017/IDRB/DS2

Dated: 27 /12/2017



**IRRIGATION DEPARTMENT  
GOVERNMENT OF KERALA**

The Chief Engineer,  
Investigation & Design,  
Irrigation Design & Research Board (IDRB),  
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December 2017

## **EXPRESSION OF INTEREST (EOI) FOR DETAILED PRESENTATION REGARDING THE TECHNOLOGY USED FOR DESILTING OF RESERVOIRS**

**Name of work: Making a detailed presentation regarding the technology used for desilting of reservoirs**

### **1). INTRODUCTION**

The Irrigation Design and Research Board (IDRB), an ISO certified Organization functioning under Water Resources Department, Government of Kerala is involved in the design of all structures related to water resources. The Design, Research, Quality Control, Coastal Erosion studies, Dam Safety, Hydrological studies and Investigation wings of the Department are under the control of the Board. The Board is headed by Chief Engineer (Investigation and Design) with its Head quarters at Thiruvananthapuram.

The original capacity of majority of the reservoirs in the State has been reduced on account of sedimentation. Hence desilting of reservoirs is highly essential to regain the lost capacity of the reservoirs. The Irrigation department, Government of Kerala, wishes to take up the work of “Desilting work of reservoir of Mangalam and Chulliar dams” as pilot projects to restore the dam to its original capacity. The Irrigation department, Government of Kerala, is responsible for the implementation of the said work. The preliminary investigation works for the collection and analysis of the samples from the reservoir bed is in progress. As the department is proceeding with the desilting process of reservoirs, it has been decided to collect as much information as possible regarding the desiltation process.

The Chief Engineer, Irrigation Design & Research Board (IDRB), Thiruvananthapuram on behalf of the Governor of Kerala is seeking to invite “Expression of Interest (EOI)” from reputed, financially sound and technically competent bidders for the work of “Making a detailed presentation regarding the technology used for desilting of reservoirs”.

The requirement of the department, namely are

To make a detailed presentation (with specific emphasis on reservoirs in Kerala State) regarding the technology used for desilting of the reservoirs (using pumps, barges, manpower, space requirement etc.), transportation to the processing yard for separation, separation of the desilted sediment into usable components such as boulder, gravel, sand, clay, silt, organic matter etc., (the process available like wet and dry method, plant, space requirement, time, cost, plant capacity etc.), packing of sand and clay and disposal of debris. No harmful chemicals/ flocculation agents shall be added during the separation phase.

### **2). ELIGIBILITY CRITERIA**

The bidder shall be a registered firm/ agency who have implemented similar projects and who should be Technically Competent to suggest suitable measures used for desilting of the reservoirs.

### **3). PROPOSED DESILTING METHODOLOGY**

#### **3.1). Brief Description**

The entire process consists of desilting of sediments accumulated in the reservoir, stacking of the desilted materials, separation of desilted material into gravel, sand, clay etc, stacking of separated material and transportation of separated materials, disposal of the debris etc.

The Reservoir desiltation process in brief includes the following phases:-

Phase I : Removal of sediment material from the reservoir.

Phase II : Transportation to separation plant/ stacking yard.

Phase III : Separation and washing of cobble, pebble, sand, clay and  
Other materials

Phase IV : Packing of separated sediments in weight and debris  
disposal.

### **4). TERMS OF REFERENCE**

#### **4.1). Scope of work**

The broad scope of work includes the following:

Making a detailed presentation regarding the technology used for desilting of the reservoirs, transportation to separation yard, separation of the de-silted sediments using suitable sediment separators (wet method/ dry method) into usable components like sand, silt and clay without affecting the environment. The separated components to be packed and the debris to be disposed to approved areas. The turbid water after separation to be treated suitably and reverted to natural streams/ pipelines/ reservoir.

The entire operation of desilting, separation of components, stacking at yard, transportation of the components and discharge of water after desilting/ separation process shall cause least impact on the environment and ecology. No harmful chemicals/ flocculation agents shall be added during the separation phase.

### **5). SELECTION CRITERIA**

The received EOI's will be allowed presentation if it meets the above mentioned criteria. Date, venue and time shall be intimated via e-mail.

### **6). IMPORTANT DATES**

Action	Date and time
Publishing of Notice for Expression of Interest	<b>29-12-2017</b>
Last date for Receipt of EOI along with relevant documents	<b>10-01-2018, 4 pm</b>
Opening of received EOI's	<b>10-01-2018, 4 pm</b>

## 7).TERMS AND CONDITIONS OF EOI

1. Conditional EOI's will not be accepted.
2. The Chief Engineer, I&D,, IDRB, reserves the right to reject any or all applications for Expression of Interest, without assigning any reason.
3. Communications regarding selection will be made via e-mail.

## 8). CONTACT PERSONS

Consultants may contact the following persons over phone/ personally during working hours between 30/12/2017 to 08/01/2018 for more information/queries:

1. Shri Terrence Antony, 94473 88351  
Chief Engineer (I&D),  
IDRB
2. Shri Shamsudeen. K.H 99619 91314  
Director (Designs),  
IDRB
3. Smt Rema. K.P 94950 43051  
Joint Director,  
ISW & Dam Safety, IDRB

For any information/ queries kindly email to our email id  
jddsisw@gmail.com

## 9). APPLICATION FORM

Interested firms should apply in the duly filled in application form along with details of work experience and cost, in the proforma attached.

## 10). MODE OF SUBMISSION

Completely filled in EOI, superscribing the name of work, along with supporting documents form should be submitted by **SPEED POST/ HAND/ REGISTERED POST** at the specified date and time in para 6 above to the following address:

Shri Terrence Antony  
Chief Engineer  
(Investigation & Design),  
Irrigation Design & Research Board (IDRB),  
3<sup>rd</sup> Floor, Vikas Bhavan  
Thiruvananthapuram, Kerala- 695033

Applications submitted through any other mode will not be considered.  
Arrangements for presentation will be made in IDRB Board room.

Sd/-  
Chief Engineer (I&D), IDRB

## Application Form for EOI

To

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Shri Terrence Antony  
Chief Engineer (Investigation & Design),  
Irrigation Design & Research Board (IDRB),  
Vikas Bhavan, 3<sup>rd</sup> Floor,  
Thiruvananthapuram, Kerala- 695033

Dear Sir,

Subject: Expression of Interest (EOI) for making a detailed presentation regarding  
the technology used for desilting of reservoirs

Having examined the details given in the EOI notice and EOI details for the  
above mentioned work, we hereby submit the relevant information.

We hereby certify that all statements made and information supplied in the  
enclosed documents is true and correct.

We have furnished all information and details necessary for EOI and have no  
further pertinent information to supply.

We also agree that Chief Engineer, I&D, IDRB or their authorized representative  
can approach individual, employers and firms to verify our competence and general  
reputation.

Name of the Applicant:

Designation:

Name of institution:

Signature:

Seal

## Application for Expression of Interest

<b>A.</b>	<b>Applicant's Details</b>	
Name of Applicant: (Company/Organization/Firm etc.)		
Registered Address:		
Telephone No.:		
Fax:		
Email:		
Website:		
T ype of entity:		Public Limited
		Private Limited
		Limited Liability Company
		Proprietary Firm
		Other(please specify)
Name of the Chief Executive:		
<b>B.</b>	<b>Primary Contact Details</b>	
Name:		
Designation:		
Telephone No.:		
Fax:		
Email:		
<b>C.</b>	<b>Technical Details/ Work Experience</b>	
Number of years your organization has been in business		
Provide list of similar works executed in the last five years for leading International / National / Government of India firms/ Departments / Other State Governments and work currently under execution in "Form 1" along with Certificates of satisfactory completion of work.		

## WORK EXPERIENCE

Summary of the select projects undertaken during the past 5 (Five) years

Sl No	Name of the Project along with Proposal	Name of the Client	Start Date	Completion Date	Value of the project	Brief Description of the project
1						
2						
3						

Use additional Sheets if required

Signature

Name

Designation

Signature

Authorised representative of the institute