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

EOI No: 01/2017/IDRB/DS2
Dated: 27/12/2017

IRRIGATIONDEPARTMENT
GOVERNMENT OF KERALA

The Chief Engineer,
Investigation & Design,
Irrigation Design & Research Board (IDRB),
Vikas Bhavan 3rd Floor, Thiruvananthapuram,
Kerala- 695033
Ph No: 0471-2784001
Fax No: 0471-2784002
Email: jddsisw@gmail.com

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 Headquarters 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 desilting 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 desilting 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

<table>
<thead>
<tr>
<th>Action</th>
<th>Date and time</th>
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<tbody>
<tr>
<td>Publishing of Notice for Expression of Interest</td>
<td><strong>29-12-2017</strong></td>
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<tr>
<td>Last date for Receipt of EOI along with relevant documents</td>
<td><strong>10-01-2018, 4 pm</strong></td>
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<tr>
<td>Opening of received EOI’s</td>
<td><strong>10-01-2018, 4 pm</strong></td>
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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),
   3rd 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,

Shri Terrence Antony  
Chief Engineer (Investigation & Design),  
Irrigation Design & Research Board (IDRB),  
Vikas Bhavan, 3rd 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

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<thead>
<tr>
<th>A.</th>
<th>Applicant’s Details</th>
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<td>Name of Applicant: (Company/Organization/Firm etc.)</td>
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<td>Registered Address:</td>
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<td>Type of entity:</td>
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<td>Name of the Chief Executive:</td>
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<th>C.</th>
<th>Technical Details/ Work Experience</th>
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<td>Number of years your organization has been in business</td>
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<td>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.</td>
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## WORK EXPERIENCE

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

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<tr>
<th>Sl No</th>
<th>Name of the Project along with Proposal</th>
<th>Name of the Client</th>
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<th>Completion Date</th>
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<th>Brief Description of the project</th>
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Use additional Sheets if required

Signature

Name

Designation

Signature

Authorised representative of the institute