

Subject: Request for quotation for Remotely controlled boat for bathymetry to measure the volume of glacial lakes in the high-altitude Himalayan region.

Bid Notification Number: DCCC/02/2019, dt.12/12/2019

QUOTATIONS SHOULD BE SUBMITTED IN TWO SEALED COVERS (TECHNICAL & COMMERCIAL BID) AND SUPERSCRIBED WITH THE ENQUIRY NUMBER AND SHOULD BE SUBMITTED WITHIN DUE DATE. QUOTATIONS VIA FAX AND EMAIL ARE NOT ACCEPTABLE.

INTRODUCTION:

Indian Institute of Science (IISc) is in the city limits of Bengaluru City Corporation. There are about 45 departments and centers in IISc that work on a wide range of scientific and technological areas of research. Divecha Centre for Climate Change is one of the centers in IISc and our research addresses a wide variety of topics concerning the effect of climate change on the natural environment and Human lives. One of the research topics in the center is effect of climate change on Himalayan glaciers. Glaciers are sensitive to climate change and due to the warming of the climate, the glaciers across the Himalaya are predominantly melting. When a glacier melts and retreats, it forms an over-deepening that is filled with melt water resulting in the formation of a glacier lake. These lakes can be a source of hazard as they can cause flooding in the downstream in an event of Glacier Lake Outburst Flood (GLOF). It can cause huge damage to human life, Infrastructure and natural resources. Therefore, it is very crucial to monitor these lakes regularly and identify potentially dangerous lakes. Further, if a lake is identified as potentially dangerous, it is imperative to estimate the lake volume and run GLOF simulations to identify the vulnerable human settlements and predict the extent of damage. However, we can only monitor the expansion of glacial lakes using satellite images and accurate field measurements are needed to determine the lake volume.

The instrument intended in this tender is meant for making bathymetric survey of glacier lake to determine their volume.

BRIEF SCOPE OF THE PROJECT:

1. Supply of the instrument and accessories.
2. Pilot measurement at the site including post processing of the data.
3. Complete maintenance for three years.

ELEGIBILITY CRITERIA:

Following are the minimum qualifying requirements for the firms, who intend to express their interest.

1. The bidder shall be an established agency having adequate experience in supply, installation and maintenance of similar instruments in the last three years (evidence supported by copies of purchase orders). Bidder should have setup at least three instruments in India.
2. The bidder should have an annual turnover of not less than 1 Crore in any last three completed financial years.

SELECTION PROCESS:

Step-1: Short listing based on documents submitted by the firm along with the expression of interest, in proof of satisfying the two eligibility criteria given above.

Step-2: Subsequent evaluation of the competency and other technical merits of the product and the financial capabilities during the purchase committee meeting. Only those firms who satisfy step-1 will be selected for the evaluation process under step-2.

Terms and Conditions:

1. Kindly arrange to enclose GST copies along with copies of orders executed recently and performance Track Record, if not submitted earlier.
2. Please arrange to enclose valid Exclusive Dealer/Distributor Certificate.
3. 3 years onsite warranty should be confirmed while quoting the offer.
4. For software items, updates during the warranty period are to be provided without any additional cost to IISc.

5. Supply, Configuration, installation, commissioning, demonstration and training are also the responsibility of the supplier only.
6. Please arrange to send Brochure, literature and Pamphlets of the products quoted.
7. Please arrange to send your Bank details for making E-payment.
8. Delivery period is to be specified.
9. The quotation should be in two sealed covers (Technical and Commercial bid). The cover should be submitted to the DCCC office. The last date for submitting the bid is 10/01/2020
10. The offer should be valid for a period of at least 90 days from the last date for submission of quotes.
11. Price quoted should be inclusive of all taxes / duties and shown separately. The price quoted should be for delivery of the items to the site and installation at site.
12. Mode of payment through Letter of Credits. 80% after supply and remaining 20% after satisfactory completion of installation, testing and training.

Technical specifications are attached with this.

Important Dates:

Date of release of the enquiry: 12/12/2019

Last date for submission of quotes: 11/01/2020

For any clarifications, contact:

Tel: 080-22933425, 080-22932075

Email: office.dccc@iisc.ac.in

NO	PART	DESCRIPTION
1	SENSOR	<ol style="list-style-type: none"> 1. Depth range ~ 0.4 m to 200 m, Dual frequency (30 and 200 kHz) and multibeam 2. resolution 1 cm 3. Operating temperature –25 °C to +45 °C
2	BOAT	<ol style="list-style-type: none"> 1. Rugged, sturdy and Light weight, easily carried by 1 person in mountainous terrain. 2. Equipment mounting deck 3. Remote control unit and easy maneuverability 4. 8-12 hours of battery endurance 5. Standard DGPS (waterproof built)
3	SOFTWARE	Real time survey-data visualization, data logging and processing
4	OTHER	<ol style="list-style-type: none"> 1. Warranty – 3 years 2. Maintenance – 3 years 3. Training – one-time training and field support 4. Should have supplied three or more Echo boats in India.