

Office of the Dean Research and Consultancy  
Indian Institute of Engineering Science & Technology (IEST), Shibpur  
Howrah - 711 103

Project Code: DRC/DST-WB/IT/IB/004/18-19

Department of Information Technology  
Indian Institute of Engineering Science and Technology, Shibpur,  
Howrah-711 103

Ref.: Tender Advt. No. IT 1457, published in the "Statesman (All Edition)", dated  
17.01.2019

**Notice Inviting Quotations**

Sealed quotations are invited for the supply of ***Subaquatic Wireless Device and IOT assisted Industrial Gateway for Subaquatic Application*** as per the following technical specification. The relevant bidding document can be downloaded from the website. The document can be also obtained from the Department of Information Technology (contact : Dr. Indrajit Banerjee) between 10.30 a.m. and 3.00 p.m. on all working days. Last date of submission of sealed quotation is **within 7 working days from the date of advertisement.**

Dean (R & C)

(A. Code DRC-T066/18-19)

*This is downloadable*

**INDIAN INSTITUTE OF ENGINEERING SCIENCE AND  
TECHNOLOGY, SHIBPUR**



**BIDDING DOCUMENT**

**(Project Code: DRC/DST-WB/IT/IB/004/18-19)**

Ref.: Tender Advt. No. IT 1457, published in the "Statesman (All Edition)", dated  
17.01.2019

*For Supply of*

*i) Subaquatic Wireless Device*

*And*

*ii) IOT assisted Industrial Gateway for Subaquatic Application*

**Under**

DHEST&BT Project Scheme  
Govt. of West Bengal

**Department of Information Technology**

**January 2, 2019**

**SECTION I: TERMS & CONDITIONS AND IMPORTANT INSTRUCTIONS  
FOR BIDDERS**

1. Bidders are to invited to submit sealed quotation as per the technical specifications for tendered item to Dr. Indrajit Banerjee, Assistant Professor, Department of Information Technology, **within 7 days from the date of advertisement** except Saturday, Sunday and other public holidays.
2. The last date of receipt of tenders is **within 7 working days from the date of advertisement** quotations received later will not be entertained under any circumstances.
3. Date and time of opening of bid is **after 7<sup>th</sup> working day from the date of advertisement at 11.00 a.m.** and the place of opening of bid is office Room of the Department of Information Technology, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103.
4. Bidders are to submit the quotations in Sealed Cover to the Department of Information Technology in the following address:

**Dr. Indrajit Banerjee  
Assistant Professor  
Department of Information Technology  
Indian Institute of Engineering Science and Technology,  
Howrah-711103, India**

5. All bids should be submitted in ONE-BID (TECHNO-COMMERCIAL BID) Format in covers (Enquiry Number must be mentioned on cover).

TECHNO-COMMERCIAL BID - giving Detailed Specifications, International Standards (BIS/INTERNATIONAL), Catalogues, List of users & Technical Details / Operating Parameters, Pre-Installation Requirements, payment terms, warranty, etc. along with PRICE BID - giving full Prices in Indian Rupees (only) for

- (a) Tendered item.
  - (b) Essential Accessories & Spares.
6. The price quoted should be inclusive of all Taxes, duties and levies. Inclusion of Tax/Levy at a latter stage will not be accepted. Freight, Insurance charges should be clearly indicated.
  7. The materials are to be supplied at a place within IEST premises between 11.00 a.m. and 4.00 p.m. The tenderer will be responsible for any breakage, damage or defect in the equipment detected subsequently. The supply and installation of the equipment should be completed within a period not exceeding 3 months from the placement of the formal work order or opening of the LC failing which appropriate action will be taken as per university rules.

8. If the supply is not completed within the stipulated period as indicated in the Work Order, a Liquidated Damage @ ½ per cent per week will be imposed subject to maximum of 5% of the value of work order.
9. For Indian purchase (*This clause is applicable only for Indian purchase and not applicable for foreign purchase*):

Bills in triplicate should be presented for payment within 15 days of Supply / Completion of work. No Advance Payment can be made. All bills are to be accompanied by Order copies and Challan Receipt. The Order Number is to be noted on both the Challan and the Bill.

**10. Documents to be submitted with the tender:**

Tender Documents/Terms & Conditions in Original duly signed by the Proprietor / Partner/ Director of the Company as a token of acceptance of Terms & Conditions of Tender.

**11. Customs Duty & Excise Duty**

- The University will not issue any C or D form availing of concessional Sales Tax/ VAT.
- The University will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.

12. The number of items may vary as per the requirement.

**13. Indian Institute of Engineering Science and Technology, Shibpur, Howrah reserves the right to accept/reject all or any of the tenders without assigning any reason whatsoever.**

We accept the above terms and conditions.  
Dated:

Signature of Bidders/Suppliers  
With date & Seal

## SECTION II: TECHNICAL SPECIFICATIONS

Sealed quotations are invited for the supply and installation of i) **Subaquatic Wireless Device** and i) **IOT assisted Industrial Gateway for Subaquatic Application** that will be capable to transfer and process data on pre-determined rule with its strategic real time data analyzer & failure indication based warning within subaquatic body using following listed items/equipment and as per the detailed technical information.

Sl. No.	Item Name	Specification	Qty.
1	Subaquatic Wireless Device	Subaquatic Environment Supported Industrial Grade Encasing In-house 5V Rechargeable Battery with Low standby power consumption Data controller module Connectivity: Wireless RF &/or Audio Long range >1000M Fault tolerant Alert signal & data communicator Real Time Data Analyzer Failure indication based on pre configurable rule, Failure & Status indicator Display Out, Actuator activator based on pre-configurable rule Externally attachable on-board-mount data visualization module with closed source firmware Local board debugging facility Redundant data handling capability	18

2	<p>IOT assisted Industrial Gateway for Subaquatic Application with Control Station Terminal &amp; Associated Software Pack with Source codes</p>	<p>Environment-proof rugged encasing  External 12V, 1A Powered &amp; Battery-operated memory &gt;= 32KB  Ethernet &amp; Wireless Capability  Data Logging, aggregating feature  Failure indication based on pre configurable rule  Long range &gt;1000M  Fault tolerant  Status indication  Connectivity: RF &amp;/or Audio  Capability to communicate with Control station machine with GPRS, USB data port with externally attachable terminal for visualization &amp; monitoring &amp; controlling purpose  with closed source firmware  real time event handling with time stamp &amp; coordinating subaquatic body  Capability to enable remote actuation  Local board debugging facility</p>	1
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