

Registered Office

Webel Bhavan, Block - EP & GP, Sector - V Bidhannagar, Salt Lake Kolkata 700091

Phone: 9133-2339-2228/226/327/316 'Fax: 9133-2357-1739/1708 email: [contact@webel-india.com](mailto:contact@webel-india.com)

**EXPRESSION OF INTEREST [EOI]**

**FOR SETTING UP OF ONLINE CONTINUOUS EFFLUENT MONITORING SYSTEM**

**EOI No. EOT/COM/20-21/00034, Dated: 21-10-2020**

The G.M.(COMMERCIAL) on behalf of WEST BENGAL ELECTRONICS INDUSTRY DEVELOPMENT CORPORATION LIMITED invites EOI for the work detailed in table below:-

Brief Description of Work	Tender Document Money (Rs) [Non-refundable] (Online)	Earnest Money Deposit (EMD) (Rs) [Refundable] (Online)	Last Date and Time of Bid Submission (Online)	TECHNICAL BID Opening Date and Time (Online)
SETTING UP OF ONLINE CONTINUOUS EFFLUENT MONITORING SYSTEM.	Rs.10,000 (Rupees Ten Thousand Only )	Rs. 1,00,000 (Rupees One Lakh Only)	04-11-2020 12:00 PM	06-11-2020 3:00 PM

For Commercial Queries, Contact:

- Wing Commander Pratul Show(Retired) G.M.(Commercial) E-Mail: [pratul.show@webel-india.com](mailto:pratul.show@webel-india.com)
- Mr. Kausik Halder Assistant Manager (Commercial) E-Mail: [halder.kausik@webel-india.com](mailto:halder.kausik@webel-india.com)

For Technical Queries, Contact:

- Mr. Arup Ratan Bhattacharyaa, Advisor, WML Division Email: [arup.bhattacharya@webel-india.com](mailto:arup.bhattacharya@webel-india.com)

### IMPORTANT DATES & INFORMATIONS

Activity / Event Description	Date	Time
Last Query Submission	27-10-2020	05:00 PM
Pre Bid Conference (Online)- Kindly Click on the <a href="#">Pre Bid meeting link</a> to attend pre bid.	28-10-2020	03:00 PM
Publishing Last Corrigenda (if any)	29-10-2020	3:00 PM
Bid Submission Start Date & Time (Online)	31-10-2020	12:00 PM
Submission of Bid(s) (Online)	04-11-2020	12:00 PM
TECHNICAL BID Opening (Online)	06-11-2020	3:00 PM

**EXPRESSION OF INTEREST [EOI] FOR SETTING UP OF  
ONLINE CONTINUOUS EFFLUENT MONITORING SYSTEM**

**1. Introduction**

WBEIDC LTD Invites expression from the prospective bidders for setting up Online Continuous Effluent Monitoring System for all functional STPs located at different parts of the State.

The desired solutions must comply with the guideline set by the CPCB (“Guidelines for ONLINE CONTINUOUS EFFLUENT MONITORING SYSTEM dated 17-11-2014”). It is desired that the bidder is an OEM for the sensors and has adequate knowledge on working principle of the sensors and hands on experience on handling of IoT hardware & software solutions. Bidders having accredited R&D LAB of their own or having a tie up with accredited R&D LAB for the various chemical & biological applicable in case of effluent monitoring will have added advantage.

**2. System Components & Specification**

On-line Effluent monitoring system will be typically comprising of:

A. The Analyser (Sensors) - On-line Analyser should be based on the latest technology i.e. UV Vis Absorption Spectroscopy. The system should be able to measure at least the set of nine (09) parameters, via pH, COD, BOD, TSS, Ammonical Nitrogen, Nitrate Nitrogen, MLSS, Dissolved Oxygen (DO) & Flow.

**Specifications:**

- a. Method: UV/ Visible optical absorption spectroscopy
- b. Wavelength Range: 200 – 800nm • Zero Drift: <1% F.S
- c. Measuring range may be calibrated before deployment
- d. Accuracy of measurement should with within 2%
- e. Display: LCD/TFT of optimum size
- f. Linearity: better than 2% F.S
- g. Interval: Minimum 60 seconds the interval should be configurable from terminal
- h. Probe Depth: < 10m
- i. Operating Temp: 5 to 45
- j. Power Source: 100 - 290 Volt Ac 47-63 Hz
- k. Analogue output: 4-20mA
- l. Enclosure rating: IP68
- m. Auto Cleaning: can be set
- n. Interface: RS 485/RS 232 /USB
- o. Probe size & weight < 6kg and should of optimum size

B. Communication Device & Software: IOT Device & Software Data Acquisition & Data Management system

**i. Specifications**

- a. Device should support RS232/RS485/Modbus/ASCII format
- b. Should provide seamless support for analogue analyser with 4-20mA, 0-10V etc.

- c. The device should support any industrial grade, Effluent monitoring analysers
  - d. The offered solution should provide secured encrypted data communication with Central Server using industry standard IoT protocol
  - e. Hardware should have provision of a non-volatile memory to record data for at-least one year of continuous operation in case of loss of signal or power failure. After resumption of power, stored data will be transmitted to the server
  - f. System should provide seamless communication between Industry and Regulatory Authority/CPCB
- ii. The reporting system should have
- a. State-of-the-art software with Cloud Service Provider (Govt. empanelled) OR on premise deployment
  - b. Pre-configured reports as per the Regulatory requirements
  - c. Ad-hoc reporting and analytics on all captured data with interactive dashboards
  - d. It is desired to have data analysis capturing parameter limits and rules pre-configured as directed by Central Pollution Control Board and SPCB
  - e. Real-time Data Integrity & Data Quality monitoring (Real Time charts, Average value with prescribed limits)
  - f. Dash board application to be provided to all the concerned departments, SPCB, WEBEL ENVIRONMENT
  - g. Live Alerts and Alarms on all monitored parameters
  - h. Remote calibration, configuration and complete protocol integration with diagnostics
  - i. Features to capture parameter load daily, weekly or monthly basis for future evaluation with flow rate signal input
  - j. System should be scalable to handle multi analyzers connected over real time
  - k. Mobile App feature is desired, which provides real time data from industry/STP effluent on mobile using secured login, Real Time Alerts and Alarms available on the mobile

### 3. ACCREDITATION & APPROVALS

The solution provider should have the following certification/ accreditations:

1. The Supplier Company should preferably have registered own R&D LAB setup or should have tie up with registered accredited R & D LAB for carrying out measurements of water pollutants.
2. ISO certification is a mandatory requirement for the Bidder.
3. The OEM should have approval / supply history to the States Pollution Control Boards/ CPCB / PSU/State Bodies/Industries
4. Bill of Quantity

Items
Sensors set for monitoring : pH,COD,BOD,Nitrate,Nitrite,TSS,DO,MLSS,Flow
IoT Hardware capable of interfacing the above sensor
Cloud based Application Software for monitoring including rentals for cloud hosting (Govt. Empaneled)
Installation Commissioning & software Integration
Sensor Calibration & periodic maintenance for 5 years
UPS and any additional Hardware which may be needed.

**4. Qualification/ Eligibility:** The bidder is required to meet the following criteria and submit documentary proof seriatim along with their offer for participation in the EoI:

- a. The Bidder may be a Company, Partnership Firm or Sole Proprietorship Firm. The bidder should have existence in India for last five (5) years at the end of 31st March 2020
- b. The Bidder or its Parent company should be the direct OEM of the products / Sub systems/ System Integrator having experience in executing similar projects in India and abroad
- c. The Bidder or its parent company should have successfully executed at least 1 similar project with project value minimum of INR 20 Crore each or should have successfully executed 2 similar projects with project value minimum INR 10 Crore each or should have successfully executed 3 similar projects with minimum project value of INR 7 Crore each till date.
- d. The Bidder Company should be ISO 17027:2017 compliant
- e. Annual turnover of the bidder during last 3 year should not be less than INR 10 Crore (in each of the last 3 Financial Year). The bidder should have a positive net worth for the previous 3 financial years from the date of EOI
- f. The bidder either should have its own NABL accredited R&D lab or have tie up with any NABL accredited R &D LAB ,along manufacturing facilities in INDIA

#### **5. General Terms & Conditions**

- a. EOI should not be treated as a commercial tender document and bidders are advised not to offer any price or include any financial aspect with their responses.
- b. This EOI does not constitute and will not be deemed to constitute any commitment or confirmation on part of WEBEL for any purchase/work order to the bidder.
- c. Bidders shortlisted on the aforesaid EOI shall be required to sign an MOU with WEBEL on mutually accepted terms and conditions. The maximum validity of such MOU shall be 5 years which may be extended or curtailed at the sole discretion of WEBEL on the basis of performance of individual organization
- d. The bidder shall bear all costs associated with the preparation and submission of its response to this EOI, including cost of Demo/Presentation for the purpose of clarification of the offer, if so desired by WEBEL. WEBEL will in no case be responsible for these costs, regardless of the conduct or outcome of the EOI process.
- e. The bidders are requested to provide the list of organization manpower details along with their technical skillsets.
- f. The bidder should have arrangement to finance any value of Projects
  - The bidder should send the following documents in support of eligibility criteria
  - Copy of Memorandum & Articles of Association.
  - The audited balance sheet of last three years.

- Solvency Certificate.
  - PAN Registration Certificate.
  - GST Registration Certificate
  - Trade Licence/ Certificate of Enrolment
- g. Due diligence should be exercised while providing information against the EOI. Unnecessary or irrelevant information will not give any advantage to the bidder. Only relevant and precise information should be provided
- h. Suppression of material fact/misstatement of information, if detected at any stage will lead to cancellation of the bid and forfeiture of EMD
- i. At any time prior to the last date for receipt of offer, WEBEL may for any reason, whether at its own initiatives or in response to a clarification requested by a prospective bidder, modify the EOI document by issuing clarification (s) and or amendment (s). In order to provide prospective bidders reasonable time to take the amendment into account in preparing their offers, WEBEL may, at its sole discretion, extend the last date for receipt of offers and/or make other changes in the requirements set out in the invitation for EOI
- j. While this EOI has been prepared in good faith, neither WEBEL nor its employees make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statement or omissions herein, or the accuracy, completeness or reliability or completeness of this EOI, even if any loss or damage is caused by any act or omission on their part
- k. Offers received after the prescribed timeline shall be rejected and shall be returned unopened to the bidder

## 6. E-Tender Bid Submission process

Intending bidders to download the tender documents from the website <https://wbtenders.gov.in> directly.

- a. In the event of e-filing, intending bidders may download the tender documents from the website <https://wbtenders.gov.in> directly. Necessary cost of tender documents (tender fees) of Rs. 10,000 (Rupees Ten Thousand Only) has to be remitted through Net banking or through RTGS NEFT through the <https://wbtenders.gov.in> //portal as per G.O 3975-F(Y) dated 28th July, 2016 issued by Finance department Govt. of West Bengal.

- b. The bidder shall pay an EMD of Rs. 1,00,000 (Rupees One Lakh only) through Net banking or through RTGS NEFT through the <https://wbtenders.gov.in> //portal as per G.O 3975-F(Y) dated 28th July, 2016 issued by Finance department Govt. of West Bengal
- c. Digitally signed Technical Bid, to be submitted through the website <https://wbtenders.gov.in> Submission of the Bid should be done as per the stated time schedule mentioned in “IMPORTANT DATES & INFORMATIONS” section of the EOI
- d. Earnest Money of Rs. 1, 00,000/- (Rupees One Lakh only) is to be submitted online. Offers not accompanied by the Earnest Money will be rejected. Earnest Money of the unsuccessful bidders will be refunded within 30 (thirty) days of signing of MoU. The Earnest Money of the successful bidders will be retained till the validity of MoU
- e. **A pre-bid meeting** with the intending bidders will be held **online and the joining link is given below** to discuss the issues concerning EOI and the scope of the work. Attendance in the pre-bid meeting is **not a pre-condition** for participation in the tender. Please click on “**[Pre Bid meeting link](#)**” for attending the meeting online

## 7. GENERAL GUIDANCE FOR E-TENDERING

Instructions / guidelines for electronic submission of the tenders have been annexed for assisting the bidders to participate in e-Tendering.

### **I Registration of Bidder:**

Any Bidder willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System through logging on to <https://wbtenders.gov.in> . The Bidder is to click on the link for e-Tendering site as given on the web portal.

### **II Digital Signature Certificate (DSC):**

Each Bidder is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Website <https://wbtenders.gov.in>. DSC is given as a USB e-Token. The Bidder can search & download N.I.T. & BOQ (Bill of quantity if required) electronically from computer once he logs on to the website mentioned above using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.

### **III Submission of Tenders:**

Tenders are to be submitted online to the website in two folders at a time for each tender (one is Technical Proposal & the other is Financial Proposal) before the prescribed date & time using the Digital Signature Certificate (DSC). The documents to be uploaded should be virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non-readable formats).