

भारत हेवी इलेक्ट्रिकल्स लिमिटेड / BHARAT HEAVY ELECTRICALS LIMITED
औद्योगिक वाल्व संयंत्र / INDUSTRIAL VALVES PLANT
गोइंदवाल / GOINDWAL – 143422

BHE/IVP/2025-26/OCEMS/EOI

DATED: 12.08.2025

NOTICE INVITING EXPRESSION OF INTEREST (EOI)

Bharat Heavy Electricals Limited, Industrial Valves Plant (IVP), invites Expressions of Interest from Indian OEMs/manufacturers/service-providers possessing proven expertise in Residual Life Assessment, Reconditioning, Retrofitting and Revamping of Online Continuous Effluent Monitoring Systems (OCEMS) for sewage/effluent treatment plants, including CCTV integration and real-time data transmission in compliance with the latest CPCB/PPCB guidelines.

Reference No.	Name of Work	Quantity	Last Date of Submission of Expression of Interest (EOI)
BHE/IVP/2025-26/OCEMS	Residual Life Assessment & Reconditioning/Retrofitting/Revamping of existing OCEMS (100 KLD STP) with CCTV, real-time data transmission & 5-year CMC in compliance with the latest CPCB/PPCB guidelines.	01 no.	30.09.2025

OBJECTIVE-

The objective of this Expression of Interest (EOI) is to define and finalise the technical scope for Residual Life Assessment, Reconditioning, Retrofitting, and Revamping of the existing OCEMS system, ensuring its reliable operation for the next five (5) years in full compliance with the latest CPCB/PPCB guidelines. The scope shall include one (1) year warranty for the complete system followed by a four (4) year Comprehensive Maintenance Contract (CMC) covering quarterly service-engineer visits, supply of all spares and consumables (cost included in the CMC), and timely calibration. Based on prospective vendor inputs and technical proposals received, BHEL-IVP will finalise the specifications and shortlist competent vendors/suppliers for participation in the subsequent tender process as per the Industrial Valves Plant's technical requirements.

SCOPE-

- Reconditioning, retrofitting, and revamping of the existing Online Continuous Effluent Monitoring System (OCEMS) to ensure reliable operation for the next five years. This includes a comprehensive package of one-year warranty followed by four years of Comprehensive Maintenance Contract (CMC), with quarterly visits by service engineers. The CMC shall cover all spares, consumables, calibration, and maintenance activities, fully complying with the latest CPCB/PPCB guidelines.
- The upgraded OCEMS must enable continuous 24x7 real-time transmission of the four key environmental parameters - Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), and pH levels - to the official portals of CPCB and PPCB, the OCEMS desktop system, and a designated monitoring location at BHEL IVP Goindwal.


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Eligibility, Prequalification & Experience-

Sl. No.	Category of Works	Eligibility, Prequalification & Experience-
1.0	Reconditioning, retrofitting, and revamping of the existing OCEMS system installed on the 100 KLD Sewage Treatment Plant, including the CCTV Camera system with real-time transmission of COD, BOD, TSS, and pH parameters to CPCB, PPCB, the OCEMS workstation, and BHEL IVP. The upgraded system is expected to meet operational requirements for the next five years following the latest CPCB/PPCB guidelines.	<ul style="list-style-type: none">• Prospective vendors/suppliers must have successfully completed similar reconditioning, retrofitting, or revamping work related to OCEMS or equivalent environmental monitoring systems within the last five years from date of floating of this EOI, or be the Original Equipment Manufacturer (OEM) of the system within the same period.• Documentary proof of past experience, such as work orders, contracts, or performance certificates, is mandatory to support eligibility claims.

GUIDELINES / REQUIREMENTS FOR EOI SUBMISSION-

1. The interested vendor should be an Indian Original Equipment Manufacturer (OEM) or manufacturer with a minimum of five (5) years of experience from the date of this EOI publication in the design, engineering, manufacture, supply, erection, commissioning, and reconditioning/retrofitting/revamping of Online Continuous Effluent Monitoring Systems (OCEMS) for Sewage Treatment Plants (STP), specifically for capacities of 100 KLD or higher. The system must have approval and be compliant with the latest CPCB/PPCB guidelines.
2. Prospective parties are required to conduct a site visit at IVP Goindwal facility. The visit will provide an opportunity for detailed discussion to understand the existing OCEMS setup, including operational methodology, sampling unit, electrical/electronic panels, sensors, and other critical components. Based on this, vendor should prepare and submit their technical offer accompanied by a presentation and a budgetary quotation.
3. Site visits to IVP Goindwal can be scheduled on any working day between 10:00 AM and 3:00 PM. A minimum of three (3) days prior written notice is mandatory for planning the visit. Representatives must carry their company ID card along with a government-issued photo ID (such as driving license or Aadhar card) to obtain security clearance for entry at BHEL-IVP Goindwal.
4. After understanding the detailed requirements, the interested vendor shall submit a detailed technical offer including the following:
 - a. Residual Life Assessment of the complete OCEMS system and its components, including the CCTV camera, with real-time transmission of the parameters COD, BOD, TSS, and pH to CPCB, PPCB, the workstation, and the BHEL IVP location, to meet operational requirements for the next five years as per the latest CPCB/PPCB guidelines.
 - b. Cost of components that must be mandatorily replaced to ensure smooth functioning for the next five years.
 - c. Retrofitting charges for the existing OCEMS system.
 - d. Commissioning charges, including labour costs.
 - e. Cost of spare parts (for future requirements).
 - f. Transportation cost for arranging spare parts and any miscellaneous specialised tools required for the work.
 - g. Budgetary quotation for a Comprehensive Maintenance Contract (CMC) for the reconditioned/retrofitted/revamped OCEMS system for five years (including the first

year warranty of the complete system followed by four years of AMC), with quarterly service-engineer visits. The CMC shall include all spares and consumables, and half-yearly calibration reports. Data must be displayed at CPCB, PPCB, the workstation, and the BHEL IVP location, and stored for five years of operation.

5. The interested vendor shall submit documents demonstrating similar reconditioning/retrofitting/revamping of an "Online Continuous Effluent Monitoring System (OCEMS)" for STPs (ours is of 100 KLD capacity) undertaken within the past five years from the date of this EOI. The submission shall include the name and full address of the customer, order number, date of supply, and performance report.
6. The interested vendor is requested to submit their technical proposal in the prescribed format (Annexure-A) along with supporting documents, credentials, technical catalogues, brochures, and budgetary offer.
7. The interested vendor is requested to indicate the local content as per the "Make in India" policy.
8. Please note that this is not a Tender. This invitation for Expression of Interest does not involve any financial commitment at this stage. It is issued to gain a detailed understanding of the Indian supplier market - specifically, the availability of potential local suppliers, the level of interest, and the technologies offered. After reviewing all proposals received, IVP Goindwal will finalise the specifications of the system and subsequently issue a formal tender notice. BHEL reserves the right to accept or reject any or all EOIs, to annul the process at any time, without assigning any reason. Submission of EOI does not automatically entitle the applicant to be considered for further tendering.
9. For detailed information, please refer to Annexure-A and Annexure-B of this EOI. For any queries, kindly send an email to any of the contact persons mentioned below before the last date of EOI submission.
10. The submitted EOI shall remain valid for a minimum of 90 days from the last date of submission.
11. The EOI may be submitted physically in a sealed envelope super scribed "EOI – OCEMS Revamp - Ref. BHE/IVP/2025-26/OCEMS/EOI" or electronically to both contact persons' email IDs (file size ≤15 MB per email; larger files should be split and numbered).

Address of Communication	Contact Person (for any queries)
Bharat Heavy Electricals Limited Industrial Valves Plant Goindwal Sahib-143422 Punjab, India	Name- Shri Satish Kumar Designation- Sr. Deputy General Manager / HSE & Civil (M)- 9410395493, Email ID: satish-k@bhel.in
	Name- Shri Samir Shandilya Designation- Sr. Deputy General Manager / HSE & Civil (M)- 9721454972, Email ID: shandilya@bhel.in


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Annexure-A

Format of Application & Visit Plan

Interested parties should submit EOI application in the following format, enclosing supporting documents and copy of technical presentation.

1. Name & Address of the Interest Vendor: _____
2. Name & Designation of the person who shall be visiting IVP works & to whom all references shall be made:

3. Contact No.: _____
4. E-mail ID: _____
5. Name- Head of Organization: _____
E-mail ID: _____ Contact No.: _____
6. Type of Organization (Public Sector Limited/ Private Limited/ Partnership/ Proprietary/ Society/ Any other):

7. No. of offices & factories, (details in separate sheets): _____
8. Particulars of past experience of similar works executed, interested vendor should submit the details as per Annexure B.
9. Copy of collaboration agreement between parties (if the Bidder has partnered with any other Interested vendor, to submit bid jointly): _____
10. Annual Turnover Statement for last 3 years (certified by a statutory auditor):

Financial Year	Annual Turnover (Rs)	Net Worth (Rs)
FY 2022-23		
FY 2023-24		
FY 2024-25		
11. Any other information that the bidder may like to give in order to highlight his bid:

12. List of documents attached:

13. Tentative Visit Date/Time

Net worth shall be worked out on the following basis:

Net worth = Capital + Reserves - Accumulated loss


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ANNEXURE-B

Past performance details

Interested vendor has to fill the details of similar reconditioning / retrofitting/ revamping works of "Online Continuous Effluent Monitoring System (OCEMS)" on STP done by him in past 5-years from date of floating of EOI. Name & full address of the customers with Order No., date of supply and performance report along with the required parameters details tabulated below.

S. No.	Customer & Address, Phone No. etc.	Supply Order No & date	Details of machines	Year of supply	Year of Completion
1.					
2.					
3.					
4.					
5.					

In support of the above, interested vendor has to submit credentials i.e. Supply order copies, Completion/performance certificate, Customer details and their Communication address, email, phone No, contact person etc. to verify the above credentials.


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