



ANDHRA PRADESH POLLUTION CONTROL BOARD

Door No. 33-26-14 D / 2, Near Sunrise Hospital, Chalamalavari Street,
Kasturibaipet, Vijayawada – 520 010, Andhra Pradesh.

Notice No. APPCB-12028/4/2018-SS-CL-APPCB

Date: 11.10.2018.

Notice, inviting Expression of Interest (EOI) for “supply, installation, commissioning & maintenance of Real-time Continuous Water Quality Monitoring Stations for water quality monitoring of river stretches and lakes on real-time basis.

1. Preface:

Andhra Pradesh Pollution Control Board is a regulatory body working under the Environment, Forests, Science & Technology Ministry, Govt. of Andhra Pradesh established under Water (Prevention & Control of Pollution) Act, 1974 to control water pollution in the State of Andhra Pradesh. Later activities as entrusted in the Air (Prevention & Control of Pollution) Act, 1981 and Environment (Protection) Act, 1986 through their various provisions.

2. Objectives:

Andhra Pradesh Pollution Control Board (APPCB) is carrying out water quality monitoring of water bodies like, rivers, canals, drains, lakes, coastal waters, etc. in the State of Andhra Pradesh regularly on monthly basis as one of its regulatory functions and suggesting the Government and stakeholders to take appropriate steps for controlling water pollution.

APPCB is also preparing the Water Quality Index (WQI) and for the rivers, canals, drains, lakes, etc. and disseminating the information through APPCB website for the benefit of general public on monthly basis.

The major objectives of the water quality monitoring are:

- a) To determine the present water quality status water bodies like, rivers, canals, drains, lakes, coastal waters, etc. in the State of Andhra Pradesh and preparation of trends;
- b) To assess the health hazard;
- c) To provide background water quality data as needed for various purposes like, drinking, bathing, propagation of aquaculture & wildlife, irrigation, and industrial use; and
- d) To control and regulate water pollution from point (industrial & domestic) and non-point (agriculture & aquaculture) sources to meet the water quality standards.

3. Scope of Expression:

With a view to expand & strengthen water quality monitoring network, APPCB proposes to install Real-time Continuous Water Quality Monitoring Stations to monitor water quality of rivers and lakes on real-time basis for the following parameters:

S. No.	Parameter	Range
1	pH	1.0 – 12.0 (Repeatability +/- 0.1pH)
2	Total Dissolved Solids	Up to 5000 mg/l
3	Total Suspended Solids	0 – 500 mg/l (Repeatability +/- 1 of reading)
4	Dissolved Oxygen	0 – 25 mg/l (Repeatability +/- 0.1 mg/l)
5	Chemical Oxygen Demand	Up to 500 mg/l
6	Biochemical Oxygen Demand	0 – 100 mg/l
7	Coliform bacteria	0 – 5000 MPN/100 ml
8	Ammonia	0 - 100 mg/l NH ₃ (Repeatability +/- 0.2 mg/l)

Real-time data, at regular intervals shall be transmitted to the APPCB & CPCB servers through IoT mechanism.

APPCB proposes to install and monitor the water quality through any of the following modes:

- a) Procurement of stations by APPCB. Supply, installation, commissioning of the stations followed by five years AMC activities (after three warranty period) by the supplier, or
- b) Procurement of stations by APPCB. Supply, installation, commissioning of the stations followed by five years operation & maintenance activity on comprehensive basis from the date of commissioning by the supplier. The operation & maintenance may further be extended five more years under mutual understanding, or
- c) Shall be installed by the supplier on Build, Own, Operate and Transfer (BOOT) basis for a period of 7 years and after the completion of 7th year, these stations will be transfer to APPCB in working condition and on Zero Cost Basis. From 8th year onwards till 10th year, these stations shall be operated on O & M contract basis and payment shall be made by A P Pollution Control Board. The data should be at least 80% validated every month.

To achieve the goal, APPCB is looking for suppliers / manufacturers of Real-time Continuous Water Quality Monitoring Stations for “supply, installation, commissioning, maintenance, data transfer to APPCB server for at least eight years from the stations located across the State through any of the three modes.

All the technical specifications of analyzers, data acquisition system and peripherals will be provided by APPCB. APPCB will provide the precise locations for establishing the stations in due course of time.

4. Technical Specifications:

All the technical specifications of Real-time Continuous Water Quality Monitoring Stations, DAS, etc. will be provided by Andhra Pradesh Pollution Control Board at the time of tendering.

5. Period:

The entire project of procurement, installation and commissioning of Real-time Continuous Water Quality Monitoring Stations has to be completed in 3 months (90 days) after receiving the supply order.

6. Eligibility criteria:

APPCB invites Expression of Interest (EOI) from eligible suppliers / manufacturers / Joint Ventures for setting up of Real-time Continuous Water Quality Monitoring Stations in different locations on the above said three modes in the State of Andhra Pradesh. The bidders should fulfill the following criteria:

- a) Should have adequate knowledge, experience and expertise in Supply, Installation, Commissioning, Operation & maintenance, calibration including data generation, data validation, networking, transmission of data to public domain and preparation of reports of Real-time Continuous Water Quality Monitoring Stations in India or abroad;
- b) Should have experience of supply, installation, commissioning and operation, maintenance and AMC activities successfully and the supplier / bidder shall submit the list of clients with numbers to whom the Real-time Continuous Water Quality Monitoring Stations with the parameters, viz., pH, TDS, TSS, BOD, COD, DO, ammonia & coliform bacteria have supplied in the last five financial years (2013-14, 2014-15, 2015-16, 2016-17 and 2017-18). The bidder shall meet the data quality requirement as specified. Proof of supply and performance certificates from the concerned shall be submitted.
- c) Adequate technical manpower for installation, commissioning, operation & maintenance of Real-time Continuous Water Quality Monitoring Stations.
- d) The bidder shall submit the certificate of their financial capability for execution of this project. Financial statements for the previous five years (2013-14, 2014-15, 2015-16, 2016-17 and 2017-18) shall be provided.
- e) All the participating bidders must submit a certificate from original manufacturer.

7. Submission of EOI:

Interested suppliers / manufacturers may submit EOI in Reply Format along-with technical and financial comments in a sealed envelope by speed post or by hand clearly super – scribed “**Expression of Interest (EOI) for “supply, installation, commissioning & maintenance of Real-time Continuous Water Quality Monitoring Stations”**” on or before **05.11.2018 by 05.00 pm** to the following address:

**The Member Secretary,
Andhra Pradesh Pollution Control Board,
Door No. 33-26-14 D / 2,
Near Sunrise Hospital,
Chalamalavari Street,
Kasturibaipet, Vijayawada – 520 010,
Andhra Pradesh.**

Contact Nos. for clarifications on EOI: 9866776734 or 8008403053.

8. EOI schedule:

1	Start of downloading the EOI	:	22.10.2018, 10.30 am.
2	Start of submission of EOI	:	23.10.2018, 10.30 am.
3	Last date for submission of EOI	:	05.11.2018 by 05.00 pm.
4	Opening of EOIs	:	09.11.2018 from 11.00 am.
5	Presentation by bidders	:	09.11.2018 from 12.00 noon.

9. IMPORTANT:

- a) The suppliers / bidders shall have to give a 20 minute power point presentation before the APPCB Officials. Suppliers / bidders shall attend the presentation activity at their own cost.
- b) This invitation of EOI by APPCB is to know the technical & financial capabilities of the suppliers / bidders and not for issue of work / purchase orders.
- c) Member Secretary, APPCB has the right to accept or reject any or all the EOIs received.

Member Secretary

Reply Format

1. Interested to include as short-listed bidder - Yes / No
2. Name of the Organization / Joint Venture:
3. Contact details with phone and E-Mail address:
4. Place and year of registration:
5. Principal place of business:
6. Details of Make, Country of origin, Measuring Principle, maintenance aspects, etc. of the devices along with the brochures:
7. Total monetary value of Services performed for each of the last five years:
 - a) 2013-14:
 - b) 2014-15:
 - c) 2015-16:
 - d) 2016-17:
 - e) 2017-18:
8. Experience in similar services and size for each activity of the last five years:
9. Details of Services under way or contractually committed:
10. Names and address of clients:
11. Qualifications and experience of technical and administrative personnel proposed for this project:
12. Profit and loss statements and auditor's reports for the past five years:
13. Information on any litigation, current or during the last five years, in which the bidder is involved, the parties concerned, and disputed amount / status, if any:
14. Technical / Financial comments (enclose separate sheet):
15. Self Certification: The statements submitted above are true and correct to our records and to the best of our knowledge. It is also submitted that the company has never been black listed.
16. Prerequisites for installation & commissioning of the equipment and data transfer to APPCB & CPCB servers on real-time basis.

(Signature with seal of Authorized Signatory)