



ಕರ್ನಾಟಕ ರಾಜ್ಯ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣ ಮಂಡಳಿ Karnataka State Pollution Control Board

"ಪರಿಸರ ಭವನ", 1 ರಿಂದ 5ನೇ ಮಹಡಿಗಳು, ನಂ. 49, ಚರ್ಚ್ ಸ್ಟ್ರೀಟ್, ಬೆಂಗಳೂರು - 560 001, ಕರ್ನಾಟಕ ರಾಜ್ಯ, ಭಾರತ
"Parisara Bhavan", 1st to 5th Floor, # 49, Church Street, Bangalore - 560 001, Karnataka State, India
No.KSPCB/SEO-INFRA/SENSOR-STP/2020-21/ 3925

Date: 10 NOV 2021

OFFICE MEMORANDUM

Sub: Mandatory installation of Sensors for STPs- Reg

- Ref: 1.CPCB guidelines on Specification of Sensors dated: 10/07/2018.
2. CPCB guidelines via Circular dated: 07/08/2020.
3. Proceedings of the meeting held on 18/06/2020 with the Chief Secretary, Government of Karnataka
4. Directions of the Board in its meeting No 227 dated 13/01/2020.
5. Technical Committee Meeting dated: 19/09/2020.
6. Expression of Interest Called by the Board dated. 2/10/2020
7. Technical Presentation held with the Vendors/ Manufacturers dated: 14/12/2020
8. Board Office Memorandum No.4792 dated: 29/01/2021

Preamble:

As a part of the Action plan to prevent the discharge of untreated / partially treated sewage into the water bodies as per the Honorable NGT Directions in OA 125/2017, it was decided to monitor the quality of treated sewage through installation of sensors. Meanwhile, the Central Pollution Control Board in its circular dated 07/08/2020 as shown vide ref.2 has directed for the installation of sensors. The details are as below:

SI No	Details	Directions of CPCB
1	Parameters to be analyzed by the Sensors	pH, TSS, COD, BOD and Flow
2	Last Date for STPs being operated in cities with Million Plus Population	31/01/2021
3	Last date for STPs being operated in the remaining cities and towns	31/07/2021

In view of the above, Board had called for Expression of Interest from the manufacturers, resellers / distributors of Sensors in leading Newspapers on 02/10/2020 to submit the details of available sensors technologies. A Technical presentation was held on 14/12/2020 to evaluate the Technologies in consultation with the experts and Professors from Indian Institute of Science (IISc) Bangalore and the list of Shortlisted vendors were published.

It is observed that there are many suppliers who have sensors complying with the CPCB guidelines. Hence the shortlisted vendors list is herewith stands withdrawn. The STP owners are free to choose the vendors from the market, who comply with the following specifications of the CPCB

S.No	Parameter	Type of Measurement	Type of Sensor	Communication Protocol
1.	pH	Inline	Ion selective glass electrodes	RS 485 communication with Modbus
2.	Total Suspended Solids	Inline	Turbidity to TSS correlation with nephelometric technique	RS 485 communication with Modbus
3	BOD	Inline	UV-Vis Spectrophotometry & combustion(Double beam with entire spectrum scanning	RS 485 communication with Modbus
4	COD	Inline	UV-Vis Spectrophotometry & combustion(Double beam with entire spectrum scanning	RS 485 communication with Modbus
5.	Flow	Inline	Electromagnetic flow measurement	RS 485 communication with Modbus

The results and reports of the Sensors are required to be synced with the KSPCB dashboard only through the Communication Protocol approved by CPCB. The same will be monitored by the Board at the Command Control Center. If it is found that the sensors are not complying to the CPCB guidelines, the STP owners are liable for any further action/penalty including the replacement of Sensors. The responsibility of selecting the Sensors in compliance to the guidelines specification shall be with the STP Owners. The Non compliance found if any will be liable to the consent conditions issued under the Water (Prevention and Control of Pollution) Act 1974.

Sd/-
MEMBER SECRETARY

Draft approved by Member Secretary

To

1. All Chief Environmental Officers for Information
2. All Senior Environmental Officers at Head Office
3. All RSEOs at Zonal Offices to ensure strict compliance.
4. All Regional Officers to ensure strict compliance.


Senior Environmental Officer