MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 24010437/24020781/24014701
Fax: 24023516/24024068/24044531
Website: http://mpcb.gov.in
E-mail: enquiry@mpcb.gov.in

Kalpataru Point, 2nd, 3rd & 4th Floor
Opp. Cine Planet Cinema,
Near Sion Circle, Sion (E)
Mumbai- 400 022.

No. MPCB/JD(WPC)/B: 3808 Date: 18/09/2014.

To,
M/s. Aaxis Nano Technologies Pvt. Ltd.,
S.C.F. 78, 2nd and 3rd Floor, Phase-2,
Mohali, 160055, Punjab, India.

Sub: Trial demonstration of Real Time Water Quality Monitoring System (RTWQMT) at Thane Belapur Association, TTC CETP, Navi Mumbai for inlet and outlet effluent.

Ref: Proposal received from Aaxis Nano Technologies Pvt. Ltd. Dated 09/09/2014.

Your offer dated 09/09/2014 submitted vide above reference for trial demonstration of Real time Water Quality Monitoring System at Common Effluent Treatment Plant at Navi Mumbai for monitoring inlet and outlet effluent for 30 days for parameters pH, BOD, COD, TSS, TDS, Salinity, Colour, temperature and TOC is accepted by the Board for observing analyser performance.

1. **Scope of Work**
   Demonstration of on-line monitoring technology for TTC CETP for 30 days as per the protocol attached.
2. **Time Frame**
   RTWQMT system should start within fifteen days from the issue date of this work order.
3. **Terms of Payment**
   Board shall bear expenses incurred towards lodging, boarding of personels, transportation, delivery, installation, commissioning security etc. Rs. 1.5 Lakhs/- lump sum will be paid including taxes for both the monitoring stations for 30 days.

4. **Other Conditions**

   a. MPCB reserves the right to cancel/modify/change the work order if required or your work is not found satisfactory.

   b. In case of any dispute, the decision of the Member Secretary, MPC Board will be final and binding.

   c. Board shall not be responsible for any damage, theft etc. cost to the instrument during transportation of equipment or conduct of exercise.

   d. Board do not take any commitment for purchase of the instrument/analyser demonstrated or otherwise.

   e. The **M/s. Aaxis Nano Technologies Pvt. Ltd.,** shall not use this data for any professional activity without written permission of Member Secretary of the Board.

It is requested to acknowledge the receipt and acceptance of this work order by returning duly signed copy of the same.

Yours sincerely,

(Rajeev Kumar Mital, IAS)
Member Secretary

Copy submitted to:
Hon'ble Chairman, MPC Board, Mumbai.

Copy to:

1. Joint Director (WPC), MPC Board, Mumbai – for necessary follow-up.
2. Chief Accounts Officer, MPC Board, Mumbai – for information and release of payment as stated above plus taxes as applicable.

Protocol for confirmation/verification of on line water quality monitoring system results with manual sampling and analysis by MoEF, approved laboratory and MPCB Central Laboratory for CETP samples.

A) Objective

1. Comparision of laboratory analysis versus on-line analyser quality for effluent quality.
2. Consistency of monitors to check results delivery.
3. Statistical analysis of performance analysis against laboratory analysis.
4. Conclusions and recommediation based on above 1 to 3.

B) Sampling

1. MoEF/NABL approved laboratory shall do manual sampling per 6 hour in (first 10 minutes) a day for 30 days at 2 locations (4 samples per location x 30 days = Total 120 samples per location).
2. Sub-Regional Office, Navi Mumbai shall do manual sampling once for each inlet and outlet per day in first 10 minutes of any six hours (coterminus with earlier sample) of day for 30 days i.e. 2 locations x 30 = 60 samples) and send to central laboratory, MPCB for analysis.

C) Analysis

1. RTQWMS shall provide real time data through GSM/GPRS network at scheduled interval to central receiving station/server at MPCB Head Office.
2. MoEF/NABL laboratory and Central laboratory MPCB shall provide the analysis data within 24 hours except BOD to MPCB through e-mail and BOD every after 4 days.

D) Data Analysis

Data collected from all the three sources i.e. RTWQMS, from MoEF approved laboratory and from MPCB central laboratory shall be statistically analysed with minimum, maximum, average, standard deviation and inferences shall be drawn with respect to comparison of lab analysis versus online analyser for each.

E) Conclusion

Based on above data analysis monitoring and manual analysis of samples for 30 days, the final conclusion will be drawn regarding potential utility of online monitoring of industrial effluent at treatment plant.

(Dr. Y. B. Sontakke) Td CWPC

(Mr. P. K. Mirashe) AST

(Dr. A. B. Sapate) PSO