



ECOTECH INSTRUMENTS

(An ISO 9001:2008 Certified Company & NABL Accredited Calibration Laboratory)

Focused on calibration of air pollution monitoring instruments



Manufacturing
Sales
Calibration
Training

Air Pollution Monitoring and Management Group

Technology at its best

Providing quality Air Pollution Monitoring Instruments and its support services to Industries, Consultants, Institutes, R&D organizations and Regulators.

Ecotech has been established in year 2009 by Dr. Rajendra Prasad, who has a wide domain of expertise in the field of Air Pollution monitoring and management, Ecotech instruments is now one of the leading company in the designing, manufacturing and servicing of air pollution monitoring instruments in India. His dedicated honest work has taken the company to astounding heights. Ecotech Instruments is committed to excellence in every aspect of business such as engineering, manufacturing and calibration capabilities for full customer satisfaction.

Ecotech's unmatched dedication to total quality and after sales support ensures that Ecotech Instruments are delivered for best reliable results. Ecotech accommodates a team of experienced staff, who efficiently undertaken every task related to the production, research & development, quality control, marketing & after sales services. Their unified efforts have enabled Ecotech in creating a celebrated niche in the widespread marketplace. Ecotech's management system is ISO 9001-2008 certified and calibration services are accredited by NABL as per IS/ISO/IEC 17025:2005. NABL has also recognized the knowledge and experience of Dr. Rajendra Prasad by appointing him the Technical Assessor for audits of Testing and Calibration Laboratories.

Ecotech Instruments a combination of knowledge, experience and dedication

Products and Services

- **Air Pollution Monitoring Instruments** - Ecotech is an expert in air pollution monitoring and management and with this expertise, Ecotech manufactures and supply full range of air pollution monitoring instruments viz. ambient air monitoring instruments, stack emission monitoring instruments, meteorological instruments, Indoor and work zone monitoring instruments and calibrators.
- **Calibration** - Ecotech offers calibration of air pollution monitoring instruments under NABL scope through its division Ecotech Centre for Calibration Services which has been accredited by NABL in the field of Fluid Flow, Thermal, Mechanical and Electro-technical Calibration since 2011.
- **Training** - Ecotech regularly organize comprehensive and hands on training programs at its training centre or at customer place to build competence and confidence among the professionals engaged in the field of air pollution monitoring. In these programs, participants are trained for carrying out reliable air pollution monitoring as per standard monitoring protocol.
- Investigative Air Pollution Monitoring, Dispersion Modelling, Sodar studies and LDAR Monitoring Programmes for refineries are undertaken on regular basis.
- Performance evaluation of ESP and other Air Pollution Control Systems
- Annual Maintenance Contract for air pollution monitoring instruments.
- Ecotech has also contributed in preparation of air pollution monitoring test methods as a member of BIS committee.

Ecotech Strengths

- Customer focused
- Innovative R&D team
- Cost effective solutions
- ISO 9001:2008 certified
- Technologically best
- NABL accredited calibration laboratory meeting requirements of IS/ISO/IEC 17025:2005
- Wide range of products
- Prompt and committed delivery of instruments and services
- Wide service network
- Customer satisfaction Oriented
- Prompt technical support for intermediate calibration checking and investigative monitoring.

Ambient Air Quality Monitoring Instruments

1. Respirable Dust Sampler Ecotech Model AAS 217BL

- Meet requirements given in BIS 5182 (Part -23) 2006.
- Particles of 10 microns & below collected on Filter Paper. Particles bigger than 10 microns collected in a separate sampling cup fitted under the cyclone.
- Fitted with brushless blower with low noise.
- Can be operated 24 hours or more.



2. Respirable Dust Sampler Ecotech Model AAS 217NL

- Fitted with brushless and noiseless blower.
- Meet requirements given in BIS 5182 (Part - 23) 2006
- Particles of 10 microns & below collected on Filter Paper. Particles bigger than 10 microns collected in a separate sampling cup fitted under the cyclone.
- Can be operated upto 24 hours or more.



3. Gaseous Sampling Attachment Ecotech Model AAS 109

- 4 Nos. 35ml Borosilicate Glass impingers as per BIS 5182(Part 6) 2006
- Rust free body
- Easy to operate with any RDS model.
- 4 valves to control flow in each impinger.



4. Gaseous Pollutant Sampler Ecotech Model AAS 118

- A standalone sampler for simultaneous monitoring of gaseous pollutants SO₂, NO₂, NH₃ & O₃ in ambient air, indoor air and in work places.
- Portable sampler has built in pump with four inlet and one out let with independent control valves.
- Impingers are as per BIS designs.



5. PM10/PM2.5 Sampler Ecotech Model AAS 127

- PM10/PM2.5 impactor is developed as per USEPA published design with user friendly features.
- AAS127 sampler performance as PM10/PM2.5 sampler is evaluated by NEERI.
- Fitted diaphragm pump assembly with low maintenance.
- Sampler can run continuously 24 hours or more.



6. PM 2.5 Sampler Ecotech Model AAS 127 MFC

- PM 2.5 Impactor is developed as per USEPA published Standard designs and meet all USEPA requirements.
- It is used for PM2.5 dust monitoring gravimetrically.
- Simple to operate and has low operating cost.
- Compact and portable fitted with mass flow controller, temperature and barometric pressure sensor connected to microprocessor based data logger.



7. PM2.5 Sampler Ecotech model AAS 127 Mini

- It is a low weight compact single cabinet sampler easy to operate and transport.
- Impactor is based upon USEPA published designs of PM10/PM2.5 Impactor.
- Suitable for measurement of PM10/PM2.5.
- Low power consumption.



8. Combo PM10 & PM2.5 Sampler Ecotech Model AAS 271

- Innovative Sampler for simultaneous sampling of PM10 & PM2.5 in ambient air.
- PM2.5 Impactor is as per USEPA design with sampling flow rate of 16.7lpm and PM10 Impactor is as per EN 12341 with sampling flow rate of 38.3lpm.
- Satisfactory performance against reference sampler evaluated by IIT Kanpur and NEERI Nagpur.



Stack Emission Monitoring Instruments

1. Stack Sampler Ecotech Model ESS 100

- Portable with all essential accessories for Iso kinetic sampling from stacks and vents.
- Simultaneous sampling of particulates and gaseous pollutants.
- Low weight pump.



2. Digital Velocity Meter Ecotech Model ESS 101

- It is portable system fitted with Digital Differential Pressure Monitor and Digital Pyrometer.
- It is suitable for direct reading of stack gas differential pressure, static pressure and stack temperature.



Workers Exposure Indoor Air Quality Monitoring Instruments

1. Handy Sampler Ecotech Model IAS 109

- It is used for reliable monitoring of work-space pollution of gaseous and particulate pollutants.
- Rechargeable battery operated which can run for full shift of 8 hours.



2. Personal Sampler Ecotech Model IAS 001

- Suitable for measurement of particulates exposure to workers in working area.
- It can be attached to worker body while working
- Light weight, compact and fitted with rechargeable batteries.



3. Sound Level Meter with Data Logging Facility

- Battery operated system for noise measurement with data logging facility.
- Frequency and time weighting meet IEC 61672 type 1.
- Real time SD memory card datalogger, Built-in clock and calendar, real time data recorder, sampling time can be set from 1 second to 3600 seconds.



4. Benzene sampler Ecotech Model AAS 172

- Power operated portable sampling instrument for BTX.
- Low flow (0-200ml/min) rotameter with flow control valve.
- Built-in Timer and Time Totalizer.
- Provision of CO monitoring by battery operated indicator.
- Activated charcoal tube can be used for sampling of BTX and any other organic compounds.



Meteorological Instruments

1. Automatic Weather Station AWM

- AWM is used for continuous measurement of wind speed, wind direction, Temp, RH, barometric pressure, rain fall and solar radiations.
- Latest system with Window based software.
- Battery operated with solar recharge.
- Data storage upto 6 months.
- Data is transferred as Excel sheet through portable data shuttle.



Intermediate Calibration Checking System

1. Flow Calibrator Ecotech Model AAS 127C

- Used for intermediate checking of flow meters (Rotameter and dry gas meter) of RDS, stack monitoring kit, gaseous pollutant sampler/ attachment.
- Fitted with master DGM and stopwatch along with connector and tubing for easy to check flow meter fitted in system.



2. Top Loading Calibrator Ecotech Model AAC 721

- It allows user to verify RDS high flow metering accuracy by comparison with a standard calibrated orifice of Top Loading calibrator
- It can be used in the field also.



3. Time Calibrator Ecotech Model AAC 100

- Portable and fitted with a calibrated stop watch (accurate upto 0.1 sec).
- Suitable for checking of Time Totalizer.



Clients



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