

AETHALOMETER

Photo of Instrument:



Instrument Name	Aethalometer
Instrument Model & Serial No.	AE33 , AE33-S10-01377
Instrument Make	Aerosol Magee Scientific
Category of Instrument	Characterization and Testing
Description of Instrument	Real time/ online TC/BC/EC/OC and BrC analysis with Carbonaceous Aerosol Speciation System.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Optical Analysis of BC with continuous collection of aerosol on filter and simultaneous measurement of attenuation of transmitted light at wavelengths 370, 470, 520, 590, 660, 880, 950 nm.
Application of Instrument (Limited to Major 4 or 5)	<ul style="list-style-type: none"> • Air Quality Monitoring • Health Effects, Climate Change Research • Field Measurement Projects • Emission Testing
Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	The instrument is designed to measure the carbonaceous aerosols in the ambient atmosphere. The instrument must be operated with proper humidifier and filter systems.
Types of Analysis / Testing	Continuous Analysis of carbonaceous

Department of Physics, NIT Calicut

Faculty In-Charge Name / Email / Contact	Dr. M. K. Ravi Varma Professor, Dept. of Physics, NITC r.varma@nitc.ac.in
Technical Staff Name / Email / Contact	
Location of Instrument	Department of Physics
Other Details	

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1	Atmospheric aerosol (field measurements)	100/- per day for student project Or 1000/- per day for sponsored R&D project + filter consumable charges + applicable operator expenses	100/- per day for student project Or 1000/- per day for sponsored R&D project + filter consumable charges + applicable operator expenses	1000/- per day + filter consumable charges + applicable operator expenses	1000/- per day + filter consumable charges + applicable operator expenses	3000/- per day + filter consumable charges + applicable operator expenses

Slot Booking and Payment Work Flow: