


Name of Machine	UV-Vis Spectrometer(UV/Vis)		
Make	PerkinElmer	Model	Lambda25(Fig. 1)
			
Specification			
1.Range:- 190-1100nm 2.Accuracy:- $\text{\AA}\pm 0.1$ nm 3.Absorbance Range:- -3 to 4 A 4.Bandwidth model 25:- 1 nm, fixed 5.Photometric Accuracy:- $\text{\AA}\pm 0.001$ nm			
Working principle:			
Ultraviolet–visible spectroscopy or ultraviolet-visible spectrophotometry (UV Vis or UV/Vis) refers to <u>absorption spectroscopy</u> or <u>reflectance spectroscopy</u> in the <u>ultraviolet-visible</u> spectral region. This means it uses light in the visible and adjacent ranges. The absorption or reflectance in the visible range directly affects the <u>perceived color of the chemicals</u> involved. In this region of the <u>electromagnetic spectrum</u> , <u>atoms</u> and <u>molecules</u> undergo <u>electronic transitions</u> . Absorption spectroscopy is complementary to <u>fluorescence spectroscopy</u> , in that <u>fluorescence</u> deals with transitions from the <u>excited state</u> to the <u>ground state</u> , while absorption measures transitions from the ground state to the excited state.			
Application			
UV/Vis spectroscopy is routinely used in analytical chemistry for the quantitative determination of different analytes, such as transition metal ions, highly conjugated organic compounds, and biological macromolecules. Spectroscopic analysis is commonly carried out in solutions.			
User Instruction			
<ul style="list-style-type: none"> • About 10ml of pre-treated samples should be submitted for analysis. • Type of sample matrix (marine/estuarine/lake/river/soil/etc.,) should be provided. • Provide details of any prior treatment of the sample, such as cleaning, drying, and treatment with solvents or preservatives. • Please contact us to ensure your samples are in a suitable format for processing. • Send samples in labelled plastic vials/covers. Indicate if any samples are likely to be toxic or corrosive. 			
Contact Person			
In-Charge	Dr.Anupam Sharma (0522-2742974); <i>Email</i> anupam110367@gmail.com ; anupam_sharma@bsip.res.in		
Staff:	2. Dr.Pawan Govil (0522-2742969) <i>Email:</i> pawanali@gmail.com , pawan_govil@bsip.res.in		

charges

Sl. No.	Instrument/Analysis	Govt. Organization (University/Research Institutes) (Rates quoted = Rs.)	Student charges	Private sector/ Industry	Remarks (if any)
1.	UV-Vis Spectroscopy Lab a. UV-Vis (liquid sample only)	500.00	375.00	1000.00	

Guideline

1. The analytical data/spectra provided cannot be used as certificates in legal disputes.
2. Service charges (including GST) will be payable in advance (Draft/RTGS/NEFT) in favour of "The Director, BSIP, Lucknow". Payable at Lucknow
3. Separate samples should be sent for different analysis. Samples will not be analysed until payment is received.
4. In case of prepared samples, the user must specify the procedure that how the sample was prepared (complete methodology).
5. In all correspondence related to analysis, our reference number must be mentioned.
6. Individual Scientists and Research fellows should send their application and samples through their project head. Discount in analysis charges for research fellows of universities/institutes will be decided by the Director in consultation with respective lab.
7. Interpretation of data/spectra will NOT be done.
8. It is mandatory for user to acknowledge the facility in their research work and communicate the same to the respective laboratory and the Director, BSIP, Lucknow for onward communication to DST, New Delhi.

For Lab visit, it is mandatory to take prior appointment from Director, BSIP before your visit. The application should be sent through department/Senior official of institution/Company. No deviation will be allowed for the timings.

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

(Sample Information Form)

REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (In-house/sponsored/Govt. organization/private): _____

Number of samples: _____

Sl. No.	Sample ID	Type/Nature of Sample	Quantity	Year of collection	Lat./Long.	Remarks, if any
1						
2						
3						
4						
5						

To be filled in by the user while submitting the form

Job No as ASE CF

Date of submission:

SAMPLE REQUISITION FORM

BIRBAL SAHNI INSTITUTE OF PALAEOSCIECES, LUCKNOW

53, University Road, Lucknow, Ph. 0522-2740008, 2740399

(ASE Central Facility)

Website: www.bsip.res.in, E mail: gcms.bsip@gmail.com

Geochemistry Lab

(Information to be filled in by the user)

Name: _____

Address: _____

Email and Mobile No.: _____

Category (Inhouse/inhouse sponsored/Govt. organization/private): _____

Number of samples: _____

Nature of samples (with details): _____

Scientific Objective of this study: _____

Additional information, if any: _____

Location (Lat & Long): _____

Exposed Section/Trench/Core/Others: _____

(For office use only)

Lab Reference No.:

R.P.C.C./ Registrar : Kindly raise the bill for the above

Total Charges:

Taxes:

Grand Total: