

Technical Specifications

Atomic Absorption Spectrophotometer (AAs) (Under buy back with Elico made AAs, model SL 194):

We require one Atomic Absorption Spectrophotometer (AAs) with following specifications.

(Under buy back with Elico made AAs, model SL 194)

Double Beam Atomic Absorption Spectrophotometer with automatic 6 or 8-lamp turret, automatic adjustment of lamp current optimization of light beam position, automatic wavelength scanning and peak picking, automatic spectral bandwidth changing, automatic optimization of position parameters, automatic ignition, automatic gas flow setting, automatic burner and flame optimization.

- Instrument should work on windows base external PC (with b/w laser printer) through software and it must have inbuilt LCD display and keypad for standalone work also
- Monochromator Czerny turner with wavelength range 190 – 900 nm or better. Focal length : >310 mm approx.. , holographic grating of high density of not less than 1800 lines/mm (Mandatory)
- Must have wavelength locating by automatic peak searching, auto loading of all parameters.
- For routine analysis instrument should work in standalone mode without the computer (Mandatory). The software should be Microsoft Windows based for instrument operation, data processing, storage, interpretation, data retrieval and user-friendly.
- 6 or 8 Lamp automatic turret with independent power supplies with coded and un-coded Hallow cathode lamps and Deuterium lamp background correction (mandatory).
- Automatic variable slit from 0 to 2,5 nm continuously variable with increment of 0.1 nm, accuracy ± 0.5 nm and repeatability of ± 0.2 nm.
- Inert material made spay chamber incorporating impact bead.
- Fully inert material nebulizer with -7 ml/min suction rate
- Integral Auto Gas Control system with LCD display, keyboard and all fault indicators with all safety features (Mandatory).
- Sensitivity : Greater than 0.7 absorbance for 5 mg/L Cu solution
- Instrument should be able to communicate to the PC via USB, the PC Software should run on Windows 7 and above and should minimum have the following modes of operation : Energy Profile, Emission , Absorbance, Standard Calibration, Standard Addition, Curve Fit options – Liner and Quadratic
- Availability of UL/CE Certification as per EN 61010-1 :2010 safety requirements for Electrical Equipment for Measurement, Control and Laboratory Use.
- Instrument with above specification should be equipped with air- acetylene burner, software with computer and printer, servo controlled voltage stabilizer, hallow cathode lamps (Cu, Zn. Ni, Fe, Cr/Cd, Pb, Ag. Au), oil free compressor with dust free air filter, acetylene cylinder with regulator along with gas purification system.
- Test reports for EMC/EMI as per EN 61326-1 : 2013 Electrical Equipment for Measurement, Control and Laboratory Use. EMC requirement s.(Test reports to be submitted by the seller)

- Availability of test reports from central GOVT/ NABL Approved / ILAC accredited lab to prove the conformity to the specification. (Test reports to be submitted by the seller) Mandatory.
- **Conditions**
 - 1) Should submit test reports no, test reports date, name of laboratory
 - 2) 1 year on-site warranty
 - 3) The quoted model must have last 5 years of working experience in any government organization with performance certificate
 - 4) Minimum 10 instrument performance certificate in Gujarati in last 5 years
 - 5) Before finalization of order supplier has to arrange working demonstration of the instrument.