

PART – A: Technical specification

Sr.	Details	Specification
Atomic Absorbance Main Unit		
1.	Switchin of autimizer unit	Automatic
2.	Wavelenth Range	185 to 900 nm
3.	Optics	Optical double beam with beam manager
4.	Background Correction	Dual Back ground correction: <ul style="list-style-type: none"> • D2 Lamp method & high speed self reversal method • Applicable to flame and furnace methods. Allows the optimal correction method to be selected for the sample. Allows correction for spectral interference
5.	Number of HC lamp	Min. 06 Nos.
6.	Lamp life management	Possible
7.	For High temperature emission	<ul style="list-style-type: none"> • Hydride generator • High Temperature Burner Head for N2O-C2H2 Flame
Flame Type		
1.	Burner Head	Sensitivity adjustment possible by <ul style="list-style-type: none"> • Dilution of high-concentration samples not required. Titanium offers superior corrosion resistance. • Pure titanium, air-cooled burner. Air-cooled 10 cm burner heard (standard). • 5 cm burner available as an option
Measurement		
1.	Flame Continues method	
2.	Micro sampling Method	
Data Processing		
1.	Concentration computation	<ul style="list-style-type: none"> • Degree of calibration curves: primary, secondary, and tertiary. • Calibration curve type: concentration = f (absorbance) • Zero-point intersect: switchable ON/OFF
2.	Repeat analysis	<ul style="list-style-type: none"> • Mean, CV, and SD value display • Automatic exclusion of abnormal values
3.	Baseline correction	Optical double-beam (flame analysis).
4.	Accumulated lamp-lit time	Can total the lamp-lit times. Permits lamp-life management for GLP/GMP, etc
5.	Final concentration calculation	Sampled volume, dilution rate, and fixed volume

		factor corrections added. Display of calculated concentration results at the same time as the analysis results
6.	Auto Save Data	Possible. Set an arbitrary position during analysis to save valuable data.
7.	Validation Software	<ul style="list-style-type: none"> • Permits automatic inspection according to the inspection items. • Dedicated to validation: selecting inspection items and changing parameters and inspection standards is simple. • Inspection date and time are automatically recorded and printed with the inspection results
8.	Summary report function	Immediate display of element analysis results table for each sample name
9.	Multitask	Permits use of commercial Windows software during measurements. Second AA software can be run during measurements for data processing of measured files
10.	Data conversation	Permits output as text data and data processing by EXCEL or other commercial software.
11.	Network compatibility	Raw data and text data can be saved in a separate PC
12.	FDA 21 CFR Part 11 Compliance	Adding optional software supports security, data Integrity, data base, electronic signatures, and IQ/OQ

PART – B : Accessory

- C₂H₂ Gas Cylinder with Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm.
- N₂O Gas Cylinder with Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm
- Argon Gas Cylinder with Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm
- Zero Air Gas Cylinder with Two stage Cylinder Regulator with Brass Chrome plated body with S.S. Diaphragm
- Gas purification panel with tubing, casing and capping for the above-mentioned gases (Zero Air, C₂H₂, N₂O, Ar)
- Oil free Air Compressor (Indian) with 20 liters Storage tank, Safety valve, Pressure Switch, Drain valve, Pressure gauge, Non- return valve, Needle valve, Solenoid valve etc. 230V AC, 50 Hz, 1 Phase, with Air filters for moisture, dust, oil & mist removal (Setof 2 Filters), Make : PCI

- Fume Hood for AAS S.S. body Maximum length 10 feet with exhaust Blower (Make : PCI):
- Duct : S. S. Total length 10 Feet (Approximate), Diameter 4"
- Hood : S.S.
- Blower: S.S., 0.2 HP Motor Fan : 7" x 4" , 2800 rpm
- Flow Control to regulate air flow (Damper)

PART C: BUY BACK OFFER :

Buy back of old Elico SL - 194 Double beam Atomic Absorption Spectro photometer with auto gas box without lamps.

PART - D : Annual maintenance contract :

1. Please quote two years Annual maintenance contract on above mentioned instrument.
2. Also quote an extended AMC price after initial two years.

Note : Quotations in a sealed envelope addressed to Vice chancellor Dharmsinh Desai University are invited for purchase of **“Atomic Absorption Spectrophotometer & auxiliaries”**, so as to reach us on or before **5:00 pm of 10/08/2024**.