

भारत सरकार / GOVERNMENT OF INDIA
आयुष मंत्रालय / MINISTRY OF AYUSH
होम्योपैथिक भेषज संहिता प्रयोगशाला
HOMOEOPATHIC PHARMACOPOEIA LABORATORY

कमला नेहरू नगर, गाजियाबाद - 201 002

दूरभाष—(120) 2787014, 2789923

पत्रांक: एच.पी.एल./ S. 20046/2016-17/ 1035 (A)

दिनांक 14.09.2018

सेवा में,
मैसर्स

विषय:- ए ए एस (AAS) की खरीदारी (In two bid system; Technical and Financial) हेतु निविदा मंगाने के सम्बन्ध में।

महोदय,

Please submit your lowest quotation rates (Two bid system; Technical and Financial Bids in separate envelopes) for Atomic Absorption Spectrophotometer (AAS) as per annexed Specification herewith latest by **28.09.2018**.


The quotation for instrument should be in a sealed cover with a clear marking on the outward top of the envelope: "QUOTATION FOR ATOMIC ABSORPTION SPECTROPHOTOMETER (AAS) **DUE ON 28.09.2018**".

Please note that rate quoted by you should include F.O.R. Ghaziabad on dispatch clearly mentioned the percentage of freight to be charged by you if the rates quotes by you are ex-godown/factory.

The quotation received after due date i.e. **28.09.2018** will not be considered in any case, no request in this regard will be entertained and the decision of the Director of this laboratory will be final.

The subject enquiry is without any commitment of our part.

भवदीय,



(जी वी आर जोसफ) 14/9/18

निदेशक

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Technical Specification of Atomic Absorption Spectrometer (AAS)

Technical Specifications; Atomic Absorption Spectrometer (AAS) Fully PC controlled with Flame and hydride Generator.

TYPE	Real/ True Time Double Beam Spectrometer
WAVELENGTH RANGE	190-900 nm
GRATING	Diffraction grating with blazed and ruling density of 1800 lines/mm RLD (Reciprocal Linear Dispersion) 1.6 nm/mm
SPECTRAL BANDWIDTH	Automatic multiple types programmable through software using auto slit selection mode
LAMP SETUP	LAMP SETUP-8 or more Lamps position Automatic Lamp Holder with computer controlled lamp selection its alignment and Automatic optimization of energy using HCL/coded lamps. Built in power supply for 2 or more special Lamp to enhance sensitivity
OPTICAL SYSTEM	Real/ true time Double Beam optical system for automatic compensation for changes in instrumental parameters for high signal stability and performance to give excellent S/N ratio
ATOMIZER	Built in Atomizer or with both flame and furnace.
DETECTOR	Solid-State Detector having quantum efficiency/Photo Multiplier Tube (PMT).
AS FLOW CONTROL	Total gas flow control system to maintain gas flows (Ratio of fuel/oxidant) at set levels even when subjected to outside variations like nebulizer adjustments. Automatic Gas Flow adjustment during change over between air C ₂ H ₂ & N ₂ O
BURNER HEAD TYPE	Acetylene- 50 mm and Nitrous Oxide Burner – 100mm
SAFETY INTERLOCKS	Burner head interlock, Nebulizer / End Cap Interlock, Drain Interlock etc to built in
BURNER ADJUSTMENT	Computer controlled motorized burner adjustment with highest precision and reproducibility for adjustment of Flame position in light path as well as fully automatic Adjustment of Burner Head.
NEBULIZER TIP	Adjustable GEM TIP Nebulizer/ PTFE orifice, Pt-Ir capillary, ceramic impact bead Nebulizer to take analysis with acids, corrosive samples including HF
CARBON FILLED PPS / engineering plastic Spray chamber to analyze all types of samples, should have high mechanical strength & fast drainage characteristics	
ACCESSORY ADJUSTMENT	Fully computer controlled spectrometer for all major accessories, Burner Heads, FIAS, Autosampler etc under software control
AUTOSAMPLER	Auto sampler mode for Flame and Furnace required.
BACKGROUND CORRECTION	D2 background correction facility

Manifold System	Gas Manifold: Argon Gas Acetylene, Gas, Nitrous Oxide Gas, Zero Air. Silica gel Potassium Hydroxide suitable tubing from gas Generator/Gas Cylinder to manifold and Manifold to instrument
Gas Cylinders with regulators and suitable tubing's for Argon Gas Acetylene gas Nitrous Oxide Gas and Zero Air	

Exhaust hood and vent assembly to remove waste gas from AAS room , installation of this is to be done by the supplier
Hydride Generator for element As, Se, Hg, Si, Sb, Sn etc.
Lamps (Single Element) : 1)Pb, 2)Hg, 3) Na, 4) K, 5) As, 6) Fe, 7) Cu, 8) Mn, 9), Se, 10) Zn, 11) Cr, 12) Al, 13)Sn, 14) Sb
Calibration Standard solution (min pack) for above elements should be provided with latest National / International traceability Certificate
SOFTWARE WITH P.C. AND PRINTER
<ul style="list-style-type: none"> ▪ Suitable software 21 CFR PART II compliance, Laser Printer and computer as per General Specification
DOCUMENTS AND TRAININGS:
<ul style="list-style-type: none"> ▪ IQ - OQ and PQ documents ▪ On site Calibration with traceable reference material, to be done by the supplier on
installation and there after every six months during warranty and CMC period.
<ul style="list-style-type: none"> ▪ On Site Training at the time of installation.

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