



PANJAB UNIVERSITY

DEPARTMENT OF BOTANY

CHANDIGARH - 160 014

(Estd. Under the Panjab University Act VIII of 1947 – enacted by the Govt. of India)

Prof. Harsh Nayyar
Chairperson

(91) (0172) 2779510, 4001, 4017 (Off.)
E-Mail: chairman.botany@pu.ac.in.

Ref. 3008-3014/Bot

Date: 14.11.2014

N.I.Q.

UNDER REGISTERED POST

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 25.11.2014**.

Specifications for Atomic Absorption Spectrophotometer

Wavelength Range	190nm-900nm
Monochromator	Czerny-Turner Configuration/ mounted littrow type
Spectral Bandwidth	0.1nm, 0.2nm, 0.4nm, 1.0nm, 2.0nm, (Software selectable).
Wavelength Accuracy	± 0.15nm
Wavelength Reproducibility	<0.05nm
Resolution 0.2nm	± 0.02nm
Baseline stability	0.005A/30min
Sensitivity (Cu)	2 µg/ml Absorption > 0.28A (flame)
Detection limit	Cu < 0.004 µg/ml (flame) Cd < 0.4 x 10 ⁻¹² g (graphite furnace)
Repeatability	Cu < 0.7% (Air Acetylene flame)
Background correction	Deuterium Arc
Burner heads	Titanium Alloy or Better
Nebuliser	High-efficiency glass, Acid proof available as an option/ Platinum/ Iridium
Atomization chamber	Corrosion-resistant material
Position Adjustment	Automatic changeover, Automatic Manual Setting of optimum Height for flame burner
Safety Function	Burner identification, Flame sensor, Gas leak Sensor, Low Gas Pressure Sensor, Drain Trap Sensor, Power Loss protection
Hollow Cathode Lamps	10 (Chromium, Arsenic Lead Selenium, Cadmium, Nickel Zinc, Iron, Magnesium, Copper).
Acetylene Regulator	01
Nitrous Oxide Burner Head	01
Nitrous Oxide Regulator (Heated)	01
Air Compressor	01
Vent and Hood Assembly (SS with 10-12 ft Ducting)	01
Acetylene Gas with cylinder	01
PC	01
Printer	01

The rates quoted should be **FOR Botany Department**, P. U., Chandigarh. **SPECIAL DISCOUNT** for educational institutions/University teaching department may be mentioned. **The technical and financial bids be enclosed in separate sealed envelopes** duly marked and placed together in a duly sealed envelope giving our reference and due date of quotation. It should reach **The Chairperson, Department of Botany, Panjab University, Chandigarh-160 014 by due date**. Warranty both parts and labour should be minimum of two years.

Thanking you,

Yours sincerely,

(Harsh Nayyar)



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Prof. Harsh Nayyar
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☎ (91) (0172) 2779510, 4001, 4017 (Off.)

E-Mail: chairman.botany@pu.ac.in.

Ref. 3002-3007/Bot

Date: 14.11.2014

N.I.Q.

UNDER REGISTERED POST

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 25.11.2014**.

Specifications for Water Purification System with accessories

Resistivity	18.21 Meg Ohm/ cm at 25°C
Conductivity	0.054/-0.056 μ S/cm
TOC (ppb)	1-2 /5-10 ppb
Pyrogen	<0.001
Bacteria cfu/ml	<1
Particles 0.22 μ m	<1 particulate/ml
pH	7/ 7-10
Turbidity in NTU	0.03 to 0.04 NTU
UV sterilization and Ultra filtration	10 LPH (liter per hour)
Flow rate intermittent (after UV sterilization and Ultra Filtration)	2 MPM (liter per minute)

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Thanking you,

Yours sincerely,

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Prof. Harsh Nayyar
Chairperson

☎ (91) (0172) 2779510, 4001, 4017 (Off.)

E-Mail: chairman.botany@pu.ac.in.

Ref. 2989-2994/Bot

Date: 14.11.2014

N.I.Q.

UNDER REGISTERED POST

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 25.11.2014**.

Specifications for Spectrophotometer with accessories:

Optical Design	Double-Beam spectrophotometer
Light Source	Xenon flash lam minimum 3/5 years warranty
Detector	Dual silicon Photodiodes
Scan ordinate modes	Absorbance, % transmittance, % Reflectance, etc.
Resolution	> 1.6 (Peak-to-valley ration
Wavelength range	190 - 1100nm
Accuracy	± 0.8nm (full range 190 – 1100 nm) ± 0.5 nm
Repeatability	< 0.1 nm
Scanning Speed	< to 6000 nm/ min. variable
Photometric range	>3.5A or above
Display range	-0.3 to 4.0 and Touch screen LCD panel; 800 x 480; 17.8cm, including Microsoft Windows XP etc.
Accuracy	0.5A: ± 0.004, 1 ± 0.005, 2± 0.010

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Thanking you,

Yours sincerely,

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Prof. Harsh Nayyar
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E-Mail: chairman.botany@pu.ac.in.

Ref. 2995-3001/Bot

Date: 14.11.2014

N.I.Q.

UNDER REGISTERED POST

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 25.11.2014**.

Specifications for Electrophoresis Unit with accessories:

Horizontal Electrophoresis system: Mini gel system with casting tray, Dimension 16x9.5x 8cm, Gel size 7x10 cm with two comb position, leak free casting without tape or seals. Power supply: 300v, 400 mA with digital display and timer etc.

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Prof. Harsh Nayyar
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E-Mail: chairman.botany@pu.ac.in.

Ref. 3015-3022/Bot

Date: 14.11.2014

N.I.Q.

UNDER REGISTERED POST

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 25.11.2014**.

Specifications for Stereo Zoom Microscope with accessories:

Stereo Zoom Microscope: 45 degree inclined having zoom Ratio 1:7, objective Zoom range 0.65 – 4.5x, Paired Widefield Eyepieces SWF 10x/22mm, working distance 100mm, with inbuilt Light stand (incident: 6V15W Lamp/ Transmitted: 5W Fluorescence Lamp) Standard set complete in thermocole packing (Magnification Range: 6.5x – 45 x with 10x eyepiece). Magnus Color imaging (CCTV) system consisting of a high resolution light weight ½” CCD Camera for excellent image contrast and an optically corrected magnus C-mount microscope adapter and with high resolution image capture PC card etc.

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