

पुलिस महानिदेशक का कार्यालय, बिहार, पटना।

पटना,दिनांक- 19-10-16

सेवा में,

निदेशक,  
सूचना एवं जनसम्पर्क विभाग,  
बिहार, पटना।

विषय- निविदा आमंत्रण सूचना सं०-42/2016-17 के प्रकाशन के संबंध में।

निदेशानुसार उपर्युक्त विषय के संबंध में निविदा आमंत्रण सूचना सं०-42/2016-17 की पाँच प्रतियाँ (सी०डी० सहित) संलग्न करते हुए अनुरोध है कि इसे राज्य एवं राज्य से बाहर के प्रमुख समाचार पत्रों में (अंग्रेजी एवं हिन्दी) के अगले दो संस्करणों में प्रकाशित कराने की कृपा की जाय साथ ही पी०आर०डी० वेबसाईट पर भी प्रसारित करने की कृपा की जाय।

इस निविदा आमंत्रण सूचना का प्रकाशन किन-किन समाचार पत्रों में किया गया इसकी सूचना देने की कृपा की जाय।

अनु०-यथोपरि।

19/10/16

पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना।

प्रतिलिपि:-

1. आई०टी० मैनेजर, पुलिस महानिदेशक का कार्यालय, बिहार, पटना को कृपया सूचनार्थ। कृपया इसे आज ही वेबसाईट पर अपलोड किया जाय। साथ ही Indian Trade Journal, Kolkata के अंक में प्रकाशन हेतु Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id-sk.mondal.dgcis@nic.in के पते पर भी अनिवार्य रूप से भेजा जाय।
2. Government of India, the Controller of Publications, Civil Lines, Delhi : 110 054, (Tel No. 011-23812527, FAX : 011-23817846), Email Id- sk.mondal.dgcis@nic.in को कृपया सूचनार्थ एवं आवश्यक क्रियार्थ प्रेषित। अनुरोध है कि उक्त निविदा का प्रकाशन Indian Trade Journal, Kolkata के अंक में करने की कृपा की जाय।

19/10/16


पुलिस महानिरीक्षक के सहायक (क्यू०),  
बिहार, पटना।

**Police Headquarters, Bihar, Patna**  
**Notice Inviting Tender No.42/2016-17**

1. Name of the Department : Office of Director General of Police, Bihar, Patna.
2. Last date & time for the acceptance of the tender : 15/11/2016, Till 11:00 AM
3. Date & time fixed for the opening of the tender : 15/11/2016 At 11:00 AM
4. Place fixed for receiving & opening the tender : Office of Director General of Police, Bihar, Patna.
5. Details of Job :

S.N.	Item name	Quantity
1.	Bullet recovery box	02
2.	UV Lamp	02
3.	UV Spectrophotometer	02
4.	H.P.T.L.C.	02
5.	Hot air oven	02
6.	Deep freezer	02
7.	Trinocular microscope	02
8.	Crime scene investigation kit	06

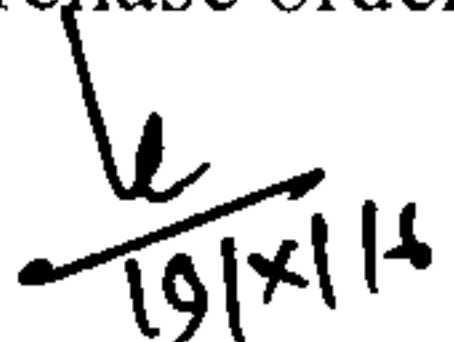
Specifications and other terms & conditions of the tender may be obtained in person from this office or may be downloaded from the website [www.prdbihar.gov.in](http://www.prdbihar.gov.in) or [www.biharpolice.bih.nic.in](http://www.biharpolice.bih.nic.in).

  
19/11/16  
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Bihar, Patna

## Terms & Conditions Of Tender No. 42/2016-17

1. Tender of the firm will be accepted only on the condition that if their tenders are approved, the firm shall get registered with the Commercial Tax Department, Bihar, before the purchase order is issued.
2. The tender should be submitted in two parts : (i) Technical Bid and (ii) Financial Bid, duly sealed in two separate envelopes super-scribed as "Technical Bid" and "Financial Bid".
3. All relevant papers/ E.M.D./certificates/specifications etc. of items should be enclosed in the Technical Bid.
4. The rates of the items shall be quoted in the Financial Bid only.
5. All charges like BST/CST/Service Tax /VAT etc. shall be clearly mentioned in the Financial Bid and the net rate (in figures and words) including all taxes and duties must also be quoted. Vague offers like indicating taxes "as applicable" will not be accepted.
6. The rates of the items shall be quoted in the Financial Bid in two parts :  
(i) With AMC (Annual Maintenance Contract) and (ii) Without AMC
7. There should be no cutting, over writing or correction on the rates.
8. The technical and financial bids for each item should be submitted separately in separate envelopes. The technical and financial bids for more than one items submitted together in the same envelope shall not be accepted.
9. If the financial bid is submitted in the same envelope containing the technical bid then also it shall be summarily rejected.
10. The technical and financial bids should be put in two separate sealed envelopes and the envelopes should be marked Tender No-42/2016-17 (Technical Bid) and Tender No-42/2016-17 (Financial Bid) along with the name and address of the firm. The sealed envelopes containing the technical and the financial bids should be sent in another sealed envelope which should be marked as Tender No-42/2016-17. This envelope should not bear the name and address of the firm.
11. Income Tax Returns of last three years, a photocopy of PAN of the participating firm and turn-over of any two of the previous three financial years should be submitted with the technical bid. It should be specifically mentioned whether IT return has been filed manually or electronically.
12. The turn over of the firm for the last reported financial year should be at least double the amount of the supply order which is being issued. A copy of the profit and loss Account of the firm for any two of the previous three financial years, certified by a Chartered Accountant should be submitted along with the tender. If the tenderer is authorized dealer or authorized supplier of manufacturing firm, then the certified details of the turnover of authorizing firm may be accepted. Tender specific authorization from the OEM must be submitted, but in certain cases where authorization from OEM is not required, the Technical-cum-User committee (T.U.C.) shall decide about exemption (if any) on a case-by-case basis; citing appropriate reasons for the same.
13. If there is some discount in the price of any item, it should be deducted from price itself and such discounts should not be quoted separately.
14. If the product is available on DGS & D rate contract, then a copy of the contract must be attached and pricing be done including all taxes.

15. A copy of the test report for the product issued by any established and recognized private Laboratory or by agency accredited by the Government should be attached with the technical bid. However if required, the Technical-cum-User committee (T.U.C.) can take decision regarding exemptions/relaxations (if any), citing appropriate reasons.
16. In case of Bullet Proof/Bullet Resistant items, test report of TBRL is compulsory.
17. Firms participating in this tender shall also submit duly sworn affidavit to the effect that " this firm has not been black listed/debarred by any Government or Semi Government or Private Agency and no sister concern of this firm is participating in this tender."
18. Firms participating in this tender shall also submit the self attested list of users of its equipments.
19. All items shall be received at Central Clothing Store, Patna, therefore price should be quoted FOR Central Clothing Store, Phulwari Sharif, Patna.
20. Firms will have to deposit a sum of Rs.50,000/- (Fifty Thousand) only as an earnest money deposit in the form of Bank Draft duly pledged in favour of the undersigned along with the quotations. The small scale units located in Bihar shall not be liable to deposit earnest money. Exemption from submitting E.M.D. will also be available to those who are registered with the Central Purchase Organisation/State Purchase Organisation and National Small Industries Corporation (NSIC).
21. Technical Bids will be opened on scheduled date and time in the office chamber of Police Headquarter. Representatives of the firms competing in the tender may remain present at the time of opening of the technical bid.
22. The technical bids will be opened first and placed before the Technical Committee of the Police Headquarters, Bihar. If the technical bids are found satisfactory as per tender conditions, it will be put before Central Purchase Committee of the Police Headquarters, Bihar. The firms may be required to participate in the demonstrations of the quoted product and discussions with this committee.
23. Any paper/document will not be accepted after opening the tender.
24. Successful firm will have to enter into an agreement after depositing a sum of 5% of the total value of the order as security money in the form of Bank Guarantee duly pledged in favor of undersigned.
25. The firm will be required to provide satisfactory after-sales service after the delivery of the product.
26. The firm will be required to supply all the items within the stipulated time frame as mentioned in the purchase order.
27. Payment for the delivered items will be made only after the acceptance report of the Inspection Committee of the Police Headquarters, Bihar.
28. The firm whose quotation is approved by the Central Purchase Committee of the Police Headquarters, Bihar, shall be invited to enter into an agreement with the undersigned.
29. It is expected to submit the duly filled chart attached herewith, along with the technical bid.
30. Indexing of the requisite documents must be done and submitted along with the technical bid.
31. Hands on training of the equipment must be imparted to the user group by the firm.
32. Director General of Police Bihar, Patna reserves the right to reject any or all the quotations partially or fully, without assigning any reason thereof.
33. The Quantity indicated may increase or decrease at the time of issuing purchase order.

  
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A I G (Q)  
Bihar, Police.

**Bullet recovery box with lid**  
**Specification**

- (i) Made of wood.
- (ii) Dimension – 20 ft x 1.5 ft. x 1.5 ft.
- (iii) Internal side quoted with 16 gauze iron sheet
- (iv) Internal side contain block of length 2ft
- (v) With lid.
- (vi) One front side open and other side closed.
- (vii) Filled with cotton.

**Crime scene investigation kit.**

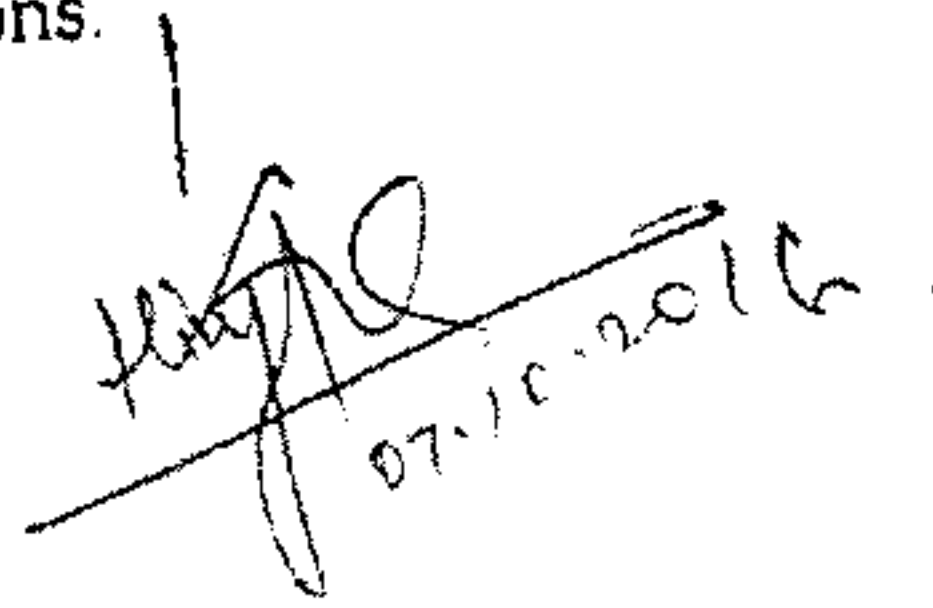
- (i) 05 mtr tape measure – 1
- (ii) Flash light – 1
- (iii) Big rolls of evidence tape – 02.
- (iv) Small rolls of evidence tape – 02
- (v) Evidence labels – 20
- (vi) Evidence tags with ties – 20
- (vii) Chain of possession labels – 20
- (viii) Portable ultraviolet light with batteries – 01
- (ix) Assorted evidence collection litters – 20
- (x) Twizzers – 02
- (xi) Pair of scissors – 01
- (xii) Scriber – 01
- (xiii) Swiss knife 21 function – 01
- (xiv) Marker, Black & white – 01
- (xv) Liquid sampling pipettes – 04
- (xvi) 3" magnifying glass – 01
- (xvii) Probe with paint chip cutter – 01
- (xviii) Sticks of white chalk – 03
- (xix) Collection tubes with EDTA- 12
- (xx) Disposable syringes – 02
- (xxi) Plastic containers with caps – 03
- (xxii) Disposable latex glove caps – 03
- (xxiii) Stainless steel spatula – 01
- (xxiv) Disposable scalpel – 01
- (xxv) Steel measuring tape – 01
- (xxvi) Inkless round finger print pad with elimination slips – 01
- (xxvii) Inner storage case – 01
- (xxviii) Molded/Aluminium carrying case with metal from - 01
- (xxix) Benzedrine and H<sub>2</sub>O<sub>2</sub> soln. – 05 (each)
- (xxx) Mask (disposable)

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HOT AIR OVEN

TECHNICAL SPECIFICATIONS

1. Should be operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50-200°C
2. Should be made of double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outer surface.
3. Should provide with three heating elements on three sides of the equipment for uniform temperature on all shelves.
4. Should be provided with air circulating fan.
5. Should provide with a variable microprocessor based digital temperature controller with digital display and thermometer should be provided separate.
6. Should have a minimum chamber size of (L\*B\*H) 450\*450\*450 with 2 stainless steel trays with holes.
7. Should provide with air ventilations.

  
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### CHROMATOGRAPHY VISUALISATION : UV LAMP

UV Lamp, Model 4 (Jan. 2016) Dual wavelength 254 nm + 366 nm with guaranteed minimum intensity, as follows : UV lamp at 17 cm distance. Short wave UV (254 nm) 1600, long wave (366 nm) 1000,. Visible light (<400nm) 0.4. Full protection to viewer's eyes and skin from UV light for safety. High tech 50 kHz power supply for flickerless, instant illumination. Auto switch off after 10 min. Thermal sensor and tilt sensor built in for user safety.

#### Essential Accessories

1. Guarantee- one year
2. Comprehensive warranty for entire system next 2 years
3. Non comprehensive AMC for next 3 years. Please provide year wise AMC offer.
4. CMC for next 2 years, please provide year wise CMC offer(including service charges or any other taxes if applicable).
5. Complete operational trainings to be provided to working analysts at site.
6. All related and essential accessories are to be quoted.
7. At least 10 day's onsite training after installation should be provided.
8. Spare parts for two years/Requisite must be supplied with the system for smooth operation.
9. Installation, commissioning at the end user site - free of cost.

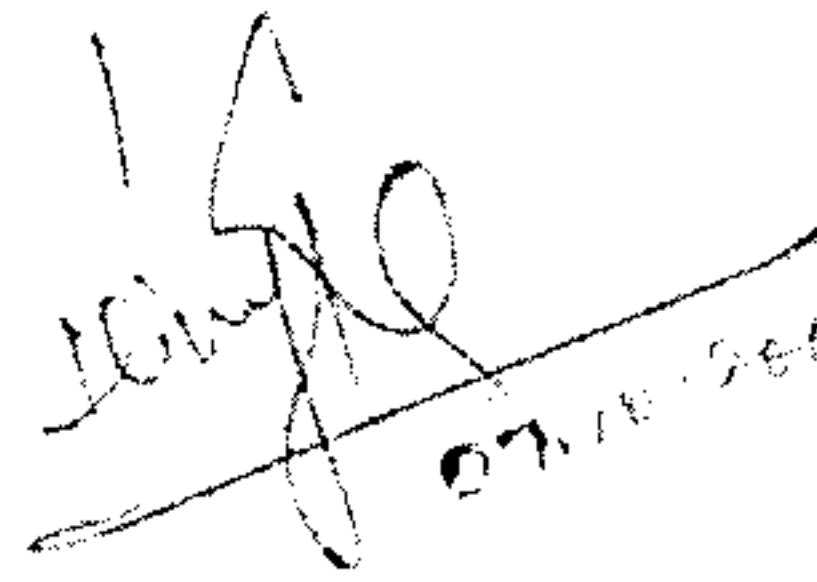
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## "Specification for Deep Freezer"

- Deep freezer is a low temperature freezer with range of -20deg C with temperature deviation of  $\pm 3$ deg C.
- Interior cabinet made of Stainless steel.
- Exterior made of durable non-corrosive powder coated galvanised steel.
- Stainless steel adjustable shelves and compartments provide with separate inner poly-acrylic sub-doors.
- High Density PUF insulation of 75 mm thickness for the cabinet.
- PUF insulated, left hinged, main door with inner FRP lining and lock.
- Hot line around the front of the cabinet to prevent moisture condensation.
- Equipment mounted on lockable castor wheels.
- Silent energy efficient refrigeration system with hermetically sealed compressor and CFC and HCFC free eco-friendly refrigerant.
- Specially designed air-cooled condenser to ensure that the equipment occupies very less space.
- Air cooled condensation system, aided by continuous rated motor fans
- Main door with heavy duty latch and magnetic rubber gasket ensures tight closure
- Refrigeration system with overload protectors and MCB
- Microprocessor based temperature control system with audio visual alarm for high/low temperature deviation.
- Thermistor sensor for accurate temperature measurement.
- Temperature calibration traceable to National Standards.
- Automatic Voltage stabilizer with time delay restart
- CE marked
- Temperature Chart recorder, Cryo Coolant Cassettes back-up, inventory system (Cryo racks & Cryo boxes) etc.
- Compete with latest Model
- Capacity :- 380 Litre  
Dimension- Inner Chamber 1000x620x610 mm.
- Including all accessories for installation.
- Warranty 03 years.

  
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General Specification UV-VIS Spectrophotometer

Microprocessor based U.V visible spectrophotometer stand alone as well as PC. and software controlled with silicon diode Array detector/PMT with authenticated licensed window based operating system, including control and data handling software, compliance ready. Complete installation at site with IQ/OQ/PQ as per standards.

Specifications-

Wave length range	-	190 to 900nm
Variable Band width	-	from 0.5, 1.0, 2.0 & 4.0 or better
Wave length accuracy	-	+/-0.1nm
Wave length Reproducibility	-	+/-0.1nm
Stray light	-	less than 0.02%T
Scanning facility	-	200nm to 1000nm/min
Photometric accuracy	-	+/-0.002A (at 1 A) +/-0.005A (at 2A)
Photometric reproducibility-		maximum deviation of 10 measurements at 1A Less than 0.001 A
Photometric Stability-		at 1 A, at 500nm, better than 0.0001 a/hour
Baseline Flatness-		+/-0.001 A in full range
Optics-		Double beam, sealed quartz-coated mirrors

Monochromator : Single or better.

With standard 10nm quartz cuvettes which covers 190-900nm.

service diagnostics/operating CD.

System Qualification should comply IQ/OQ/PQ & 21 CFR Part II Compliance.

Supply accessories :-

1. Quartz cuvettes 3ml cavity - 12 Nos.
2. Quartz cuvettes 1ml capacity 06 Nos.
3. Spare Deuterium Lamp(D2 lamp)- 01 No./Xenon flash lamp (min 3yrs warranty)
4. 19 TFT monitor computer system with 500 GB hard disc, 04GB RAM with other latest configurations of reputed make laser printer of reputed make compatible online UPS online UPS with one hour backup.

Essential Accessories

1. Guarantee- one year
2. Comprehensive warranty for entire system next 2 years
3. Non comprehensive AMC for next 3 years. Please provide year wise AMC offer.
4. CMC for next 2 years, please provide year wise CMC offer(including service charges or any other taxes if applicable).
5. Complete operational trainings to be provided to working analysts at site.
6. All related and essential accessories are to be quoted.
7. System should have following safety and regulatory certifications like international electro technical commission(IEC), CSA, NRTL, EMC, RFI & ISO 9001.
8. At least 10 day's onsite training after installation should be provided.
9. Spare parts for two years/Requisite must be supplied with the system for smooth operation.
10. Installation, commissioning at the end user site - free of cost.

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## SPECIFICATIONS FOR GRADIENT HPTLC SYSTEM

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Integrated, Software Managed, Gradient HPTLC system for quantification, identification, fingerprinting and micropreparative separations of poison, narcotics, explosives and forensic use.

**HPTLC SOFTWARE** – New generation single software to link control, integrate manage the individual instruments for application development, scanning and image documentation. Guides the user through chromatography steps. With sample oriented approach. Numerous methods library available for download after installation. Client-server system for flexibility. Powerful database tracks individual samples and ensures data integrity. Built-in automatic back-up tool for data. Produces a comprehensive GLP compliant analysis report with instrument, analyst, date, time, place of the method parameters etc. and complete details. Communicates in both directions with instruments. Random and unique report ID given to each printout. Stores infinite number of methods and downloads them to instruments, when called for. Analysis data from instruments is securely stored in system Manager. Essential for GLP compliance and electronic data storage security.

### SEMI AUTOMATIC SPOT / BAND APPLICATOR

5th Generation. Sprays sample to layer. Stand alone or System Manager Control. 4 mode applicator 1) Quantitative analysis 2) Micro-preparative chromatography (190mm band length & 500µl sample in one go) 3) Superimpose – int. std. or derivatization reagent in same method 4) in – situ clean-up (sample application at 110mm on y axis). Sample syringe – 100µl (for analytical work) 500µl (for micropreparative work). Sample position on X & Y axis freely selectable. Automatic rate of sample dispensing. Method storage – 10 built-in or infinite through system manager. Method entry – Manual or download from System Manager. Can auto – test instruments (self-diagnosis).

### CHROMATOGRAM DEVELOPMENT CHAMBERS

All glass, moulded, one piece, bubble free chamber for TLC/ HPTLC. Bottom divided into two equal halves with a sloping divider. Chamber top and bottoms (both outside the chamber and inside the two troughs) should be perfectly parallel to each other.

Chamber ground finish on top for good seal and at bottom for perfect level. Heavy chamber to minimise effects of vibration. One piece joint less moulded chambers prevent leakage and tough to handle while cleaning. Stainless steel rust proof lid with overhang to completely seal the chamber. Appropriate sizes for 20x20 cm, 20x10 cm and 10x10 cm plates.

### GRADIENT AUTOMATIC MULTIPLE DEVELOPMENT CHAMBER

PC controlled chamber comprising chromatogram developing chamber and its control module. Upto 25 times stepwise multiple development in same direction possible. Upto 5 solvents to make gradient. Plate drying time 1 – 5 min. Gas phase equilibration after every step possible. Mobile phase front monitoring by CCD. Vacuum sensor built in. Gradient display on screen. Validation software + self diagnostics built-in. Vacuum connector. Optional link to System Manager. (vacuum pump is required)

### MULTIPURPOSE CHAMBER FOR METHOD DEVELOPMENT

Multipurpose Chamber for a) Method development b) Rapid screening of samples c) Horizontal development. Chamber comprises layer scraping module and development module. Uses 10 x 10 cm glass plates. Can run six mobile phases on one plate, side by side at the same time, with or without saturation. New method developed in 3 – 4 runs. With mobile phase creation guide. For screening, run same sample with 6 different mobile phases.

### TLC / HPTLC PLATE HEATER

For in-situ derivatization and layer activation. Stain resistant ceran glass top; temp range 25 to 200C. Uniform heating of plate. Digital display of set & actual Temp. display remains on as long as plate is hot. Upto 20 x 20 cm size plates.

Revised  
25.07.16

## PHOTO RECORDING UV CABINET:

UV Cabinet with a digital camera mount.

Enables to inspect the plate as well as keep a record by photodocumentation. Images transferrable to PC. Digital camera required. Image can be attached to System Manager report. Image annotation software included.

Dual wavelength 254 nm + 366 nm with guaranteed minimum intensity, as follows: UV lamp at 17 cm distance. Short wave UV (254 nm) 1600, long wave (366 nm) 1000. Visible light (<400nm) 0.4. Full protection to viewer's eyes and skin from UV light for safety. High tech 50 kHz power supply for flickerless, instant illumination. Portable darkroom. Auto switch off after 10 min. Thermal sensor and tilt sensor built in.

## TLC / HPTLC SCANNER WITH DATA EVALUTION :

System Manager controlled Scanner / Densitometer for automatic spectrum scanning for identity check as well as purity check; Automatic quantitative measurement by absorbance & fluorescence; All TLC / HPTLC plate sizes acceptable; Scan speed 100mm/sec @ 25µm resolution; Wavelength range 190-900 nm; Monochromator flushing by nitrogen; Data sampling rate - 4000 / sec; Special Macro optics for TLC & Micro optics for HPTLC. Spectrum scan speed 100 nm / sec; Max 999 spectra / plate; Visible pilot slit image / scan compartment illumination with UV to check sample alignment with scan beam; D2, Hg, W lamps built-in. Self diagnostic + Service dialog + Universal filter for fluorescence also built-in; scan slit size variable; bandwidth selectable 5 or 20 nm.

Data evaluation 32 bit software (latest version), Excellent S/N ratio. High reproducibility; Controlled by System Manager, Automatic / Manual data integration, Auto baseline correction. Spot check facility. 3D display with data storage and auto calculation of each peak at its λ<sub>max</sub>. Calibration - single level, multilevel, linear / non-linear. Statistics CV / CI. Reproducibility check facility. Auto calculation of data from wts and dil. factors, Computer generated random no. for each report (GLP compliance). Lamp use tracking. 2 level digital user manual. Service Dialog + self Diagnostics + Tutorial all built - in. Meets GLP. Optional IQ-OQ and 21 CFR Rule 11 certification.

## ESSENTIAL SOFTWARE FOR SCANNER

- a) Spectrum Scanning option
- b) Scanner Quantification

Multi wavelength evaluation : Measures, stores and calculates automatically quantitative results from upto 31 wavelengths. All data stored & 3-D displayed in 3 ways. Colour plots of data. Automatic quantification with respect to λ<sub>max</sub> of each separated fraction, in absorption & fluorescence mode.

## DERIVATIZER

Micro-droplet spraying technology for derivatization of TLC plates

- Highly homogeneous reagent distribution through optimized droplet size
- Recommended settings for the most common derivatization reagents
- Safe and environmentally friendly operation through closed system
- Intuitive handling and easy cleaning
- Both 20x20cm & 20x10cm TLC/HPTLC plates compatible
- 2ml derivitization reagent consumption for 20x10cm plates & 4ml for 20x20cm plates

## Consumables :

### For Semi-automatic Applicator -

Analytical sample syringe - 100ul  
Preparative sample syringe - 500 ul

### For Photography devices -

UV tubes - 254, 366 nm, white light  
UV transmittent filter

### For Scanner -

Lamps - Mercury, Deuterium, Tungsten-Halogen  
UV tube - 254nm (4w)

General conditions: -

Specifications should be confirmed from the website of the manufacturer.

Good support from India is essential.

**Maintenance:** A good team of service engineers, trained by the manufacturer is essential. Detailed information of service engineers and their product training to be provided. AMC or CMC rates should be offered reasonably.

Live product demo, with our samples is necessary. The same may be arranged at supplier's cost.

**Analysis support:** Since we deal with complex samples, support for analysis should be given by the supplier by sending their application.

Equipment should be future proof and manufacturer is expected to offer upgrade whenever available rather than change models.

**Warranty period :** 2 years desirable. After sales services must be described in detail. After sales support through Application Lab is very essential.

**Training :** 3 levels – 3 days during installation. Subsequently at supplier's Application lab and in our lab. Please provide full details of after sales services staff and application lab.

Demo of various specifications should be given by the successful bidder before placing order.

Essential Accessories

1. Guarantee- one year
2. Comprehensive warranty for entire system next 2 years
3. Non comprehensive AMC for next 3 years. Please provide year wise AMC offer.
4. CMC for next 2 years, please provide year wise CMC offer(including service charges or any other taxes if applicable).
5. Complete operational trainings to be provided to working analysts at site.
6. All related and essential accessories are to be quoted.
7. At least 10 day's onsite training after installation should be provided.
8. Spare parts for two years/Requisite must be supplied with the system for smooth operation.
9. Installation, commissioning at the end user site - free of cost.

*2019*  
*23-09-16*

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**Technical Specifications of Trinocular Microscope are as follows:-**

1. Eye-piece- 10X, 15X wide angle.
2. Achromatic objective - Parfocal, Anti-fungal coated, 5X, 10X, 40X and 100X (Oil immersion)
3. Stage- Detachable mechanical stage with fine vernier graduation.
4. Abbe condenser focusable.
5. Illuminator - LED white light source.
6. Finish- A durable textured acid resistant finish.
7. Computer compatible software.
8. Branded computer with colour printer.
9. Others-
  - (i) Should provide with wooden box, dust cover, immersion oil.
  - (ii) Electricity safety certification
  - (iii) Should work with input 100-240V AC