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|  | TENDER DOCUMENT FOR PHARMACEUTICAL MACHINERY & LAB EQUIPMENT | Tender Document No. GIA-15 Version-2 |
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RAJASTHAN DRUGS & PHARMACEUTICALS LIMITED

Road No. 12, V.K. I Area, Jaipur- 302013 (Rajasthan) India

Ph: 0141-2330509, 2330110, Fax: 0141-2330461

Email: purchase@rdpl-india.in

Tender for Purchase of Pharma Machinery & Lab Equipments

Sealed tenders are invited for purchase of Pharmaceutical Machinery & Lab Equipments of GMP/GLP Standard. Interested parties may obtain tender documents with detailed specifications and commercial terms and conditions of supply from manager (Materials) on any working day up to 24/08/2013 on payment of Rs. 1000/- (Rs. One thousand only) in cash/ Demand draft in favor of “Rajasthan Drugs & Pharmaceuticals Ltd.” payable at Jaipur. Tender duly completed with requisite documents and earnest money deposit equivalent to 2% of value of machineries/lab equipments offered must reach the undersigned up to 3 PM on 28/08/2013. The technical bid shall be opened at 4.00 PM on the same day in presence of representatives of the bidders if available. The date of opening of financial bid of the technically qualified bidders will be informed later on. The company reserves the rights to accept or reject any offer without assigning any reason. For further details, please visit our website: www.rdpl-india.in.

Note: - Parties who have submitted their bid in response to our earlier tender within date 06-05-2013 need not apply again as the same are valid and under consideration.

Factory Manager

Date -06/08/2013



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Eligibility criteria

The bidder eligibility shall be evaluated on following lines -

1. Bidders should have minimum five repeat orders for the quoted machinery/ lab equipment's. With satisfactory performance certificate of the quoted machineries/ lab equipment's from five users, above document should be submitted along with technical bid.
2. Inspection may be carried out at user end by RDPL to access the performance of quoted machinery/lab equipment's from past users.
3. Bidders have to specifically mention in the technical bid about extended. Comprehensive warranty of the quoted machineries/lab equipment's.

Above information along with supporting documents should be enclosed with the technical bid.

TERMS & CONDITIONS

1. The Quotation / Offer must be sent in two bid system i.e technical bid and financial bid. The technical bid shall consist all technical information of the quoted machineries/ equipments and information required as per the eligibility criteria. This shall also contain the EMD and tender fees(if the tender is download from the web-site). For any deviation from specifications, the bidder may enclose the deviation sheet along with the technical bid. This complete information may be enclosed in a sealed envelope, and marked as "TECHNICAL BID FOR PHARMACEUTICALS MACHINERY/ LAB EQUIPMENT". The financial bid shall carry the quoted rates for pharmaceutical machineries/lab equipment. This must be sealed in a separate envelop and marked as "FINANCIAL BID FOR PHARMACEUTICALS MACHINERY/ LAB EQUIPMENT ". Both the envelop of technical and financial bid may be sealed in a single envelop marking on top as "Tender for Pharmaceutical Machineries and Lab Equipment's due on 28/08/2013" The company will inform to technically qualified bidder for opening of financial bid. MANAGEMENT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY OFFER WITHOUT ASSIGNING ANY REASON .
2. The rate should be quoted as F.O.R. Jaipur at our works at Road No. 12, V.K.I. AREA, Jaipur-302013.
3. The quotations must accompany with **an Earnest Money Deposit of 2% of Total Value** of items quoted for in favour of Rajasthan Drugs & Pharmaceuticals Ltd. payable by **Demand Draft** at Jaipur. This earnest money shall however,



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- automatically be converted into Security Deposit immediately after acceptance of the offer of the party & placement of the purchase order. This is required for proper fulfillment of the order's terms and conditions and the purchaser reserves the right to forfeit this amount in case the supplier does not comply with the obligations of the terms and conditions of the purchase order. The tenders without EMD are liable to be rejected.
4. The offer shall be kept valid for a period of minimum 90 days from the date of opening of tenders. Tenders not giving the required validity period may be rejected at the discretion of purchaser.
 5. **The rates quoted must be inclusive of all the expenses** like packing, forwarding, insurance, cartage and freight etc. to be borne by the supplier. The details of Excise Duty and Sales Tax / any other local tax/levy must be clearly mentioned in the price offer.
 6. **The delivery period shall be the essence of the order.** The delivery period should be specified very clearly and the supplier has to adhere to the delivery schedule prescribed, failing which they will have to pay liquidated damages/penalties. It should be noted that the delivery period stipulated in the order includes the transit period also.
 7. **PENALTY :**
Delayed supplies of goods beyond the stipulated period entail imposition of penalty at the following rates:

| <u>Delay in days</u> | <u>Rate of penalty</u> |
|-----------------------------------|------------------------|
| upto 7 days | 0.50% |
| 8 to 15 days | 1.00% |
| 16 to 30 days | 2.00% |
| Over 30 days to a max. of 60 days | 5.00% |

The rate of penalty shall be applicable on the ordered prices of goods. Delivery period may be extended with or without liquidated damages by the company on consideration of advance request by the supplier for genuine reasons.
 8. **RISK PURCHASE :**
Non-Supply or failure to supply the material with the agreed delivery period shall cause risk purchase at the cost of supplier. In such cases, the purchaser has the right to recover the cost and damage incurred from the defaulter supplier. However, no financial advantage shall be passed on to the supplier if goods are purchased at lower rates. In the event of failure to supply the machinery by the

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supplier against purchase order the amount of security deposit shall be seized by the company.

9. **PAYMENT TERMS :**

Normally 100% payment shall be made within 60 days after receipt of material, subject to acceptance of material, provided bank guarantee for 10% value of the material towards performance guarantee (having validity for one year at least) is given by the supplier as per clause No.10 below. However, the payment terms offered by the tenderer being otherwise different than the above, shall be subject to the acceptance by the company.

10. **PERFORMANCE GUARANTEE :** In case of supply of machines and equipment, the supplier will have to submit a performance guarantee (of 10% value of the machine by Bank Guarantee valid for a period of one year) for smooth working and trouble free operation of the equipment for a period of minimum one year,

11. **PRICE ESCALATION:** The price escalation clause shall not be applicable.

12. **ACCEPTANCE OF PURCHASE ORDER:** The supplier should ensure to send the acknowledgment immediately on receipt of purchase order. The unconditional confirmation of receipt of purchase order may be faxed.


● **INVOICE/ BILL:**

(i) Invoice/Bill should be duly signed, clearly marked and properly made with regard to description, specifications and quantity of goods, invoice should be sent in triplicate to the RDPL , Jaipur.

(ii) Excise Duty whether inclusive or exclusive in the price invoiced shall be payable only on receipt of duly authenticated copy of central Excise Gate pass - Invoice.

(iii) Sales Tax Regn. No. or TIN No. must be printed on the invoice/bill, failing which, no sales-tax will be paid.

(iv) Invoice /Bill must indicate the Number and date of consignment note or challan, including the name of carrier.

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- (v) Purchase Order No. and date should invariably be quoted by the supplier in all correspondence relating to supplies.
13. **TEST CERTIFICATES:** Test, Guarantee, Warranty, Performance Certificate, or any other documents evidencing or testifying the quality, specification or description of goods should invariably be sent along with the dispatch documents. Payments are liable to be with-held in case non-compliance. Supplier has to arrange Design Qualification, Installation Qualification, Operational Qualification & Performance Qualification documents as per WHO GMP norms.
14. **REJECTION & REMOVAL OF GOODS :** The declaration of rejection of goods by our inspecting officer shall be final and binding and shall be intimated to the supplier within fifteen days of the receipt of material , rejected goods shall be replaced by the supplier at his own risk and cost. The rejected goods are to be removed by the supplier at his own risk and cost within a period of one week from the date of rejection intimation received by them.
15. In case tenderer offers machinery having different specifications, separate sheets with full details thereof with price, etc. should be annexed.
16. Any other terms and conditions, if mentioned by the tenderer, shall be subject to approval by the company.
17. **SETTLEMENT OF DISPUTE (ARBITRATION)**
All disputes and differences of any kind whatever arising out of or in connection with the contract or the carrying out of the works, whether during the progress of the works or after their completion and whether before or after the determination or breach of the contract, shall be referred to INTERNATIONAL CENTRE FOR ALTERNATIVE DISPUTE RESOLUTION having its office at plot no.6 ,vasant kunj institutional area , phase –ii ,New Delhi-110070 and its decision/ award shall be binding on both the parties.

In case either party fails to accept the award of the arbitrator the other party may refer the matter to the court of law having jurisdiction at Jaipur only.

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18. **LEGAL PROCEEDINGS:** All disputes and legal proceedings arising out of this order shall be lodged and admissible in Jaipur Courts only and not outside Jaipur.
19. **Special Terms and conditions -**
- (i) All SS welding should be ground back and SS surface polished to smooth finish.
 - (ii) All product contact surfaces are mirror finished.
 - (iii) Machine should be provided with safety features, interlocks & details to be submitted along with the bid.
 - (iv) The General Arrangement (GA drawing) drawing should be enclosed along with the technical bid.
 - (v) Main Power supply cables shall be supplied by RDPL & therefore should be excluded from the scope of supply.
 - (vi) No Extra cost shall be paid for validation documents (DQ, IQ, OQ & PQ).
 - (vii) Optional items may be quoted separately.
 - (viii) The time is the essence of the contract. The machine is to be supplied within 3 months time from the date of technically & commercially clear purchase order.
 - (ix) PLC/MMI based machinery/lab equipments should be 21 CFR 11 compliant.
20. **Scope of Standard Documentation-following documents should be submitted with the machine -**
- a. Material Test certificate for contact parts
 - b. Installation & Maintenance Manual
 - c. Spare Part List
 - d. Warranty Certificate of machine
 - e. Certificates, Manual for Brought out items
 - f. Electrical Circuit Diagram
 - g. Schematic Diagram of machine showing Overall Dimensions
 - h. Calibration certificates of the instruments.

Documentation- DQ, OQ, IQ & PQ as per the WHO GMP/GLP Guide Lines

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21. **APPROVED MAKES: For electrical switch gears, mechanical parts and instruments**

| Sr. No. | Item | Makes |
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| 1 | Contactator/overload relay/fuse switch units | Siemens/ L&T |
| 2 | Push Button Station | Siemens/ TECKNIC |
| 3 | MCCB/MCB | Siemens/ L&T/ MDS |
| 4 | Indicating Lamps | Tecknic/ Siemens |
| 5 | Terminals | Elmex/ Connectwell |
| 6 | Cable Gland | Commet/ Dowells |
| 7 | Cable Lugs | Dowells |
| 8 | PLC | Mitsubishi |
| | Touch Screen | Proface - Japan |
| 9 | Motors | Crompton/ Bharat Bijlee/ Kirloskar/ Siemens |
| 10 | Touch Screen | Proface, Japan |
| 11 | Pneumatic Control & accessories | Festo |
| 12 | Motors | Crompton/Siemens/ Kirloskar/ Bharat Bijli |
| 13 | Vacuum Pump | Acmevac or equivalent |
| 14 | Water Cooler | Bluestar/Voltas/Usha |
| 15 | Temperature Indicator & Controllers | Bells/ Shiva/ Adcon/Toshniwal |
| 16 | Temperature Sensors- PT100/Thermocouplels | Bells/Toshniwal/Jagson/Adcon |
| 17 | Coupling | Fenner |
| 18 | V-Belts | Fenner |
| 19 | Bearings | SKF |

Note: - 1) Please furnish the list of users for machinery quoted in the tender by giving their complete address phone Nos. and the name of contact person.

2) For any technical clarifications, bidders may e-mil- mukesh.sharma@rdpl-india.in

For, Rajasthan Drugs & Pharmaceutical Ltd.,

Factory Manager

ABOVE TERMS ARE ACCEPTED

(Signature of Tenderer /Supplier)
with rubber stamp

Date: -



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**1. Scope :- supply ,Installation and commissioning of automatic Titrator Qty
-01**

SPECIFICATION FOR AUTOMATIC TITRATOR

The Titrator should have the capability of performing acid/base, non-aqueous, Argentometric / Precipitation, Complexometric, Redox, Photometric, KF titration's, as well as pH & Concentration

System should be PC Control and should do minimum two titrations parallel either both Potentiometric Titration and combination of potentiometric and KF Titration. It should be offered with all necessary accessories for Parallel Analysis

Measurement Range :

pH : 00 -14 (0.001 Resolution)
mV : ± 2000 (± 0.1 mV Resolution)

Display : pH and mV

Burette drive /pump drive and burettes should be of latest technology & system should be able to identify the burette automatically.

System should be capable of automatic identification of volume of the burette being used. Burette should have facility to store the data related to strength of titrant, date of calculation of strength, Burette Drive & burette Serial No. & Burette Volume, Titer History with Trend Analysis, Validation data, calibration data, serial no. of piston, etc. Also Volume of burette should not be manually.

System must accommodate the burette of 2 mL, 5 mL, 10 mL, 20 mL & 50 mL.

Burette Drive /pump Drive : 2 Nos.

Burettes : 10 ml, 20 ml and 50 ml volume - 02 No. Each

List of Electrodes :

- (i) Electrodes to perform Acid/Base Titration, Non aqueous Titration
- (ii) Electrodes to perform Redox Titration
- (iii) Electrodes to perform Argentometric / Precipitation Titration
- (iv) Electrodes to perform Complexometric Titration

Other Accessories :

4/7/9 pH buffer , LiCl & KCl Solution, Electrode Storage Solutions and suitable cables.



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Complete set for Karl Fischer Titration including electrodes, vessel and other items required for KF titration, Amber bottles (04 No's).

Details of software :

Software should be genuine with proper part No. and with following features:

- (i) Built in alphanumeric entry with scientific symbols and chemicals formulas should be possible
- (ii) Full network, Multiple Instruments & Multiple client connection possibilities
- (iii) The instrument shall be capable of giving comprehensive GLP records like weight, volume, concentration of titrant, sample name, operators name, date, time, titration curves, first derivatives, second derivatives and all statistical calculations.
- (iv) The system should be capable of doing two individual titrations at a time.
- (v) Facility for data security, audit trails and electronic signatures etc., should be available
- (vi) User and Password Management functions should be present
- (vii) Logical command should be acceptable.
- (viii) Library of sensors & tests performed for calibration data should be maintained

Note: Party may quote advance model, if available



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2.Scope :- Supply of Tablet Hardness Tester Qty -02

Specification of Tablet Hardness Tester

- 1) Micro -controller base.
- 2) 20 or more Position Carousal for Automatic measurement of tablet Like -width, Thickness, Length /Diameter & Hardness and Weight
- 3) Water proof Keyboard.
- 4) L.C.D display.
- 5) Printer Compatibility.
- 6) Built -in Real Time Clock.
- 7) Validation/Calibration protocol.
- 8) Test Parameter.

Width

Measuring range - = 0.1 mm to 20.0 mm.
Measuring Unit = mm
Measuring Accuracy = ± 0.05 mm

Thickness

Measuring range = 0.1 mm to 15 mm
Measuring Unit = mm
Measuring Accuracy = ± 0.05 mm

Diameter /Length

Measuring range = 0.1 mm to 30 mm
Measuring Unit = mm
Measuring Accuracy = ± 0.05

Hardness

Measuring range = 0 Kg/cm to 20 Kg /cm
Measuring Unit = N or Kg
Measuring Accuracy = ± 0.2 kg /cm

Weight

Measuring range = 50 mg to 2000 mg
Measuring Unit = mg or gm



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Measuring Accuracy = ± 0.1 mg

Report Format

GLP & pharmacopoeia compliant report with statistics (Avg ,Minimum, Maximum & RSD) Validation reports.

Power 230 VAC, $\pm 10\%$, 50 Hz

3. Scope :- supply ,Installation and commissioning of HPLC_Qty -02

SPECIFICATIONS FOR INTEGRATED QUATERNARY HIGH PERFORMANCE LIQUID CHROMATOGRAPHY (HPLC) SYSTEM

HPLC system consisting of Quaternary Gradient pump, Integrated Auto Injector, Online Degasser, Column Heater, UV-Vis Detector with software and accessories.

QUATERNARY GRADIENT PUMP :

4-Channel facility in pump with serial pistons
Able to work as Isocratic and quaternary mode
Automatic Gradient Profiles facility
Composition Precision : $\pm 0.15\%$ or less
Composition Range : 0 to 100%
Composition Accuracy : $\pm 0.5\%$
Operating flow range : 0.01 – 10.00ml/min, in 0.01 increments
Flow Precision : 0.1% RSD max up to 0.075%
Flow Accuracy : $\pm 1\%$
Suitable On-Line Degasser

Auto sampler with Auto Injector

Number of sample Capacity : 96 vials or more
Number of sample Injections : 1-90 per vials
Sample Injection Precision : 0.5% RSD
Sample Carryover : Not more than 0.01% from previous injection
Injection Volume Range : 0.1-500 μ l and up to 2000 μ l
Injection Accuracy : $\pm 1\%$

Inbuilt Sample Temperature Control facility should be available.

Column Heater :

Temperature Control Range : upto 100° C



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DETECTORS : UV-Vis. Detector

Wavelength Range : 190-700nm

Light Source : Deuterium Lamp

Lamp hour :D₂ lamp >2000 Hrs life time

Noise : $\pm 0.25 \times 10^{-4}$ AU

Bandwidth : 5nm

Drift : $\leq 1 \times 10^{-3}$ AU/hour/0C at 254nm, dry cell

Data Rate : 80 Hz or More

Detector linearity $\leq 5\%$ at 2 AU Propyl Paraben, 257nm

Measurement / Sensitivity range : 0.0001 – 4.000 AUFS or more

should be able to accommodate a wide variety of flow cells: 10mm path length, detector should be based on Lamp Optimization software for low noise performance.

Software

To control, acquisition, online display, processing peak point integration and reporting HPLC data

Full 32-Bit Architecture software

Windows environment or suitable

Data report, online help and wizards

Data Integrity, Advanced Security, Audit Trails

System suitability min 5 Parameter can be checked

Template saving & Auto run of templates

Calibration curves facility

System suit formula facility

Facility for data security, audit trails and electronic signatures etc.,

Single point control of the entire HPLC.

Columns (Pore Size 5 μ) :

C-18 Column (Two of 250 x 4.6 mm & Two of 150 x 4.6 mm)

C-8 Columns : 1 No. of 250 x 4.6 mm

Si Column : 2 No. of 250 x 4.6 mm

Phenyl Column 1 No. 250 x 4.6 mm

CN Column 1No. 250X4.6mm

Styrene – divinyl benzene co-polymer (8 to 10 μ m) 25 cm x 4.6 mm

Accessories :

(A) Vials : 1 ml & 2 ml pack of 100 vials

(B) Low insert vials (for low volumes) : A pack of 100 vials

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Comprehensive guarantee period with spare part for at least three years (from the date of installation/demonstration) & acceptance of AMC contract (Service labour charges only) as specified in tender catalogue for five years after expiry of guarantee period.

Note: Party may quote advance model, if available.

4. Scope -Supply & Instal. of GLASS WARE WASHING MACHINE Qty -01
SPECIFICATION FOR GLASS WARE WASHING MACHINE

Automatic Cleaner /Disinfector for Laboratory glassware.

Free standing model, fresh water circulation system for analytically pure cleaning of wide range of laboratory glassware's such as beakers, test tubes, washing bottles, graduated cylinders, volumetric flasks, conical flasks, pipettes etc. of various capacities. Double skin body for heat and sound insulation and inner cabinet should be of stainless steel.

Other requirements :

- Spindle rack made of type 304 stainless steel should be provided with detachable large spindles for washing narrow- neck glassware. Glassware holders, clips and additional interchangeable small spindles should be include. Rack should accommodates a variety of inserts for holding beakers, culture tubes and other special glassware.
- Water temperature should reach till sufficient temperature to sanitize glassware and to enhance washing and faster drying .
- It should contain Display preferably LCD for customizing cycles and monitoring all operation.
- It should maintain water recirculation rates for thorough cleaning.
- It should have Dual pumps, one for washing and one for draining.
- It should consists built-in purified water pump to bring non pressurized or pressurized purified water into the tank for up to six pure water rinses.
- Built -in steam generator that produces hot vapor to penetrate and remove dried residue for cleaner glassware.
- Manual fill detergent dispenser for powder or liquid detergent.
- Manual-fill rinse aid solution dispenser .
- Audible Alarms with display for HOT GLASS, PLEASE WAIT, WATER LOW, WATER HIGH and OVERFLOW.

Accessories

- (x) Stainless steel fine mesh particle drain filter -01 Nos.



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- (xi) Pipet Inserts which can hold 8 pipets capacity 1 ml to 25 ml -01 Nos.
- (xii) Utensil Basket -0 1 Nos.

Any other perquisite required if any with specifications should be included to run and

Installation of the instrument.

Comprehensive guarantee period with spare parts for at least three years (form th date of installation /demonstration) & acceptance of CAMC/AMC contract (comprehensive /labour charges only) as specified in tender catalogue for five years after expiry of guarantee period .

**5. Scope- Supply of 14 BOWL DISSOLUTION TEST APPARATUS WITH
AUTO SAMPLER Qty -02**

**TECHNICAL SPECIFICATION FOR 14 BOWL DISSOLUTION TEST
APPARATUS WITH AUTO SAMPLER**

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| Instrument Control | Micro- controller based. |
| Key board | Alphanumeric soft Touch keyboard. |
| Display | LCD display . |
| Water bath sensor with | Transparent water bath with heater and continuous water circulation to maintain constant temperature of water bath. |
| Type of Apparatus | Both basket and paddles . |
| Dissolution vessels | As per IP /BP/USP Polycarbonate. |
| No. of Station | 14 Station. |
| Temperature Range | 20 ⁰ c to 40 ⁰ c |
| Temperature accuracy (At 37 ⁰ c) | ± 0.1 ⁰ c |



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| Temperature Readability | 0.1 ⁰ c |
| Temperature display temperature display | Bath temperature as well as bowl |
| Speed Control | Motor driven |
| Speed Range | 20 to 250 RPM (Variable) |
| Speed accuracy RPM | ± 0.5 |
| Speed setting | In steps of 1 RPM. |
| Sample Interval | 1 min to 23.59 Hrs. |
| Sample time selectivity | fixed /Programmable interval. |
| Method storage | 20 or more |
| Tablet dispenser | Simultaneous dropping of dosage |
| Report formate (GLP & Regulatory compliance) | All GLP compliance,IQ,OQ documents. |
| Test Report | On line / Off line print facility. |
| Auto sampler collect | System must be quoted with auto sampler to samples from all 14 bowl. |
| Power supply | 230 VAC 50 to 60 Hz. |

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6. Scope-Supply of DIGITAL PH METER Qty- 01 Nos.

Specification of DIGITAL PH METER

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|--------------------|---|---------------------------------|
| Display | - | Digital Led |
| Range | - | PH 0-14 PH |
| Accuracy | - | PH \pm 0.01 ph, MV \pm 1 mv |
| Temp. Compensation | | Auto: 0 to 100° C |
| Slope control | | 80 to 120% |
| Sensor | | PH Electrode |

7. SCOPE-SUPPLY ,INSTALLATION AND COMMISSIONING OF DIGITAL ANTIBIOTIC ZONE READER (MICROBIOLOGY LAB.) QTY-01 NOS.

SPECIFICATION FOR DIGITAL ANTIBIOTIC ZONE READER (MICROBIOLOGY LAB.)

Digital Antibiotic Zone Reader with microprocessor based design. Print out facility and facility to store Four number of zone.

Power- 230V, 50Hz.

Size – Length x width x Height

275mm x 265mm x 390mm.
RANGE 0-35 MM.

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8. Scope-supply of Hot-Plate(Microbiology Lab.) Qty- 01 Nos.

Specification for Hot-Plate(Microbiology Lab.)

Hot Plate in rectangular shape, made of cast iron machined to a smooth and level surface.

Size- 60cm x 30 cm.

Cut off- Automatic.

TEMPERATURE- 350 °C.

9. Scope-supply of Clean garment storage (Microbiology Lab.) Qty- 01 Nos.

Specification for Clean garment storage (Microbiology Lab.)

1.2 meter, 18 gauge electrogalvanized steel body with white over backed epoxy powder coated cabinet.

Size- 52." x 29.1 "x88.2"

Capacity- 16 garment Hanger

ELECTRICITY- 220-240 V, 50 HZ.

10.Scope-supply of Air Sampler(Microbiology Lab.) Qty-01 Nos.

Specification for Air Sampler(Microbiology Lab.)

Air Sampler for qualitative and quantitative analysis of air, quality of air borne microorganisms in clean zone.

Functional- manual and sequential sampling.

Capacity- 1µl – 1000 liter.

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Dimension- 300 x 120 x 140 mm.

Weight- 16 Kg.

Power- Rechargeable battery backup 5 hrs.

STORAGE- 99 SAMPLES STORAGE IN DATA SAMPLING NUMBER, DATE, HRS, FLOW RATE.

11. Scope-supply of Fumigator (Microbiology Lab.) Qty- 01 Nos.

Specification for Fumigator (Microbiology Lab.)

Laboratory fumigator dispenser consistent particle size generation of 5-15 μ , better and should be compatible with wide range of disinfectant in a closed room.

Design- Vortex type. Non rotating and non closing nozzle.

Tank Capacity- 5 liter. Easy clean, detachable and non corrosive for chemical

ELECTRICAL - 200-270V, 50 HZ.

12.Scope-supply of Lab scale Emulsifier Qty- 01 Nos.

Specification Lab scale Emulsifier

Capacity- 5L to 10L solution

SS 304/316 Construction (Contact part ss316, Non contact part SS 304, mirror finish)

Other requirement – BQ, IQ, OQ, PQ documents

Calibration required

ELECTRICAL SYSTEM- STANDERS ELECTRICAL SWITCH GEAR TO BE PROVIDED

| | | |
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**13.SCOPE-SUPPLY, INSTALLATION AND COMMISSIONING OF SUGAR
TRANSFER SYSTEM QTY- 01 NO.**

SPECIFICATION OF SUGAR TRANSFER SYSTEM

Capacity 1000 Kg/Hr

With mechanical cleaning arrangement consisting of the conveying pipeline, collection container filters , vacuum etc.

CONSTRUCTED IN 316 SS (PRODUCT CONVEYING SYSTEM).

**14. SCOPE-SUPPLY OF HORIZONTAL DOUBLE DOOR
AUTOCLAVE(MICROBIOLOGY LAB.) QTY-02**

Specification for Horizontal Double Door Autoclave(Microbiology Lab.)

Horizontal Double Door Autoclave sterilizer, safety and interlock device quick opening structure, over temperature protection an external pressure gage a safety valve test program over pressure auto discharge .

Pressure auto discharge cut at 0.2-0.72 Mpk.

Capacity 160 liter.

Control- Fully Automatic.

Make- Stainless Steel(316).

Voltage- 380 V+- 30, 50 Hz.

Power- 12 KW.



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**15. SCOPE-SUPPLY, INSTALLATION AND COMMISSIONING OF
AUTOMATIC CAPSULE FILLING MACHINE CAPACITY 90000 CAPSULES
PER HOUR**

TECHNICAL DETAILS :-

| S. No | Description | Qty |
|------------------|---|------------|
| 1 | Automatic Capsule Filling Machine 90000 Caps./Hr without change parts | 1 |
| 2 | Capsule Change parts- Size 2 | 1 |
| | Powder Change Parts- Size 2 | 1 |
| 3 | Dry Vacuum Pump for loading station | 1 |
| 4 | Touch Screen | 1 |
| 5 | Air Displacement Unit | 1 |
| 6 | Tools & Setting Gauges for 90000 Caps./Hr | 1 |
| 7 | Group Sampling | 1 |
| 8 | Mechanical Pellet Filling Attachment | 1 |
| | Pellet Dosing Chamber- Size 2 | 1 |
| 9 | Sorter Elevator without change parts | 1 |
| 10 | Change part for SE 100- Size 2 | 1 |
| 11 | Dedusting & Polishing Machine | 1 |
| 12 | Compact ADU for DP 100 | 1 |
| 13 | Mini Capsule Sorter MCS 100 without change parts | 1 |
| 14 | Change parts for MCS 100- Size 2 | 1 |
| 15 | Empty Capsule Sorter ECS 100 | 1 |

**16. SCOPE-SUPPLY ,INSTALLATION AND COMMISSIONING OF MULTI
PURPOSE EQUIPMENT FOR FORMULATION DEVELOPMENT -01 SET.**

**SPECIFICATION FOR MULTI PURPOSE EQUIPMENT FOR FORMULATION
DEVELOPMENT**

| | | |
|---|---|--|
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Process/Functional/operational requirement-

Mixing, blending, milling and granulation

1. Planetary Mixer
2. Double cone blender
3. Peletizer
4. Wet granulator
5. conta blender
6. sieve shaker

Capability requirement-

1. Planetary mixer 20 Hs
2. Doulbe cone blender 20Hs
3. Conta Blender 20 Hs
4. wet granulator 20Hs
5. Sieve from dia 6"
6. Peletizer 5 kg/hr

Contact parts- S.S. 316/304

Non-Contact parts -S.S. 304

Mirror Polished