

## DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA

*Approved Rate list for the supply of Lab.  
Equipments / Instruments upto  
31-03-2017 finalized by Central  
Purchase Committee, Dr. PDKV, Akola.*

- Read:** 1) Univ. Order No. GAD/CPC/15-16/1789/2015 dated 02/09/2015.  
2) Office Order No. Asso. Dean/CPC/1191/2015 dated 06/11/2015.  
3) Univ. Order No. GAD/CPC/16-17/1877/2016 dated 15/09/2016.  
4) e-Tender No.ADPGI/CPC/e-tender/1577/2016 Dated 27.01.2016  
(Tender ID 2016\_PDKVA\_94010\_1)

### CIRCULAR

No. ADPGI/CPC/Equip/1689 /2016-17

Dated 01 / 02 / 2017

Consequent upon the constitution of Central Purchase Committee for Akola zone vide University Order dated 02/09/2015, the Central Purchase Committee headed by Associate Dean, Post Graduate Institute, Akola undertook e-tender process for the Equipments / Instruments for which indents were received. Considering the wide range of items, the committee confined etender procedure to the items of common requirement for the supply of Lab. Equipments / Instruments.

The rates are duly approved by the University on recommendation of the Central Purchase Committee, Dr.PDKV, Akola in r/o of the Lab. Equipments / Instruments as per list enclosed which are valid upto 31.03.2017.

The concerned officers intending to purchase any of the Equipments / Instruments from the approved rate list, will have to follow purchase procedure as per the financial rules of the University & availability of fund.

The rates mentioned in the rate list include ST, VAT, Special Excise, Cess and F.O.R. destination.

The concerned officers intending to purchase any Equipment / Instrument should take security deposit @3% of total cost from the supplier as per rule and procedure. If the job is completed by the party satisfactorily then the amount of Security deposit thereon will be returned after 12 months or the expiry of warrantee period whichever is later from the date of supply.

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The purchaser must provide a copy of supply order to the Tender Coordinator (Equipments / Instruments), Agril. Biotechnology Centre, Dr. PDKV, Akola.

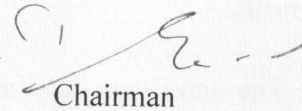
The surprise inspections may be carried out by the Chairman/Tender Coordinator to check quality, quantity and specification of the purchased material.

The details regarding specification should invariably be got mentioned in the supply order and the same should be got entered in the bill so that responsibility of supplier can be fixed in respect of items supplied by them. The purchaser should check the Equipment / Instrument as per specification at the time of putting supply order & delivery. The purchaser should verify whether the specification meets their complete requirement or not, then only supply order should be placed.

The approved rate list for supply of Equipments/instruments is available on University website [www.pdkv.ac.in](http://www.pdkv.ac.in).

The circular is issued with the concurrence of the Comptroller and approval of Hon'ble Vice Chancellor.

**Encls:** Approved rate list of  
Lab. Equipments / Instruments.



Chairman  
Central Purchase Committee &  
Associate Dean, Post Graduate Institute,  
Dr. PDKV, Akola

Copy submitted to:

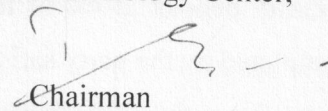
The Dean(Agri.), Dr. PDKV, Akola, for information.

Copy f.w.c.s. to:

1. The Controlling Officers (All) \_\_\_\_\_ Dr. PDKV, Akola.
2. The Registrar, Dr. PDKV, Akola, for information.
3. The Comptroller, Dr. PDKV, Akola, for information.
4. The T.S. to Vice Chancellor, Dr. PDKV, Akola for information of Hon'ble Vice Chancellor, Dr. PDKV, Akola.

Copy for information and necessary action to:

- 1) The Implementing Officers (All) \_\_\_\_\_
- 2) The Pay and Accounts officer, Akola/Nagpur.
- 3) The Tender Coordinator (Equipments / Instruments), Agril. Biotechnology Center, Dr. PDKV, Akola



Chairman  
Central Purchase Committee &  
Associate Dean, PGI, Dr. PDKV, Akola.



**Dr Panjabrao Deshmukh Krishi Vidyapeeth, Akola**  
**Approved rate list of Lab. Equipments / Instruments valid till 31.03.2017**

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
1.	Water Still- Manesty	Complete S.S. body, electrically operated, easily replaceable immersion type heaters and along with wall mounting arrangements. Output 3-4 lit/hr.	5977.00	M/s. <b>Aakanksha Chemicals</b> , Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001.
2.	Weighing Balance	Top loading precise balance. Read out range - 0.1 gm. Weighing range-up to 1kg.	6311.00	
3.	Water Distillation Unit/ Purification Unit	Capacity : 1 lit/hr or 2 lit/hr. Distillate Temperature : 60°C - 75°C + 5°C. Stages : Double Stage.	21057.00	
4.	Weighing Balance	Capacity : 500 gm Display : Digital display Accuracy : 0.001 gm	28940.00	Phone: 9823230623
5.	Soilrite	It should be a mixture of horticultural grade perlite and Irish Pear Moss specially made for tissue culture applications in laboratories and green houses for vegetative multiplication under disease free conditions. Per 1000 kg	40992.00	Email : aakankshachem @rediffmail.com
6.	Double Distillation Unit (Water Distillation)	Quartz distiller, 2 litre/hr capacity, Dismountable boiler, Compact design, Dual safety cutout, High purity, low conductivity, Pyrogen free distillate, Easy service and maintenance.	98711.00	
7.	Hot Air Oven	Double walled construction of inner chamber made up of stainless steel. Interior SS 304 Q and exterior made up of GI. GI sheet powder coated. Gap between two wall filled with glass wool for insulation. Heater made up of nicrome wire fitted at the bottom. Temperature range - 50 to 250 degree celcius. Chamber size 14"x14"x14", 1250W, two shelves.	11754.00	
8.	Electronic Balance	Compact digital balance, Pan Size 100mm dia, capacity 200 to 220 gm, accuracy .001 gm, external calibration, with cabinet i.e. wind shield, resolution 0.001 gm	20258.00	

Tender Coordinator  
Equipments/ Instruments

Member Secretary  
Central Purchase Committee

Chairman  
Central Purchase Committee

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
9.	Ice Flaking Machine	<ul style="list-style-type: none"> <li>• Capacity – 30kg/24hrs.</li> <li>• CFC free refrigeration.</li> <li>• Stainless steel construction.</li> <li>• Continuous Ice Flakes output.</li> <li>• Fully automatic microprocessor control.</li> <li>• Noiseless operation.</li> <li>• Overload protection.</li> <li>• Low water level indication.</li> </ul>	97650.00	<b>M/s. Aakanksha Chemicals,</b> Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com
10.	Culture Racks For Tissue Culture	<ul style="list-style-type: none"> <li>• Executive: For producing Circadian rhythms tissue culture, biotechnology &amp; allied works, with latest Electronic Ballast to produce excellent simulated natural light.</li> <li>• Size of Racks: Height of rack 152 cm (5'). Width 127cm (4'.2")</li> <li>• Shelve dimension: 122 × 45 cm (50"×18")</li> <li>• Shelf to shelf distance: 35 cm (15")</li> <li>• Shelf Color: Square M.S. pipe white shade powder coating finish with anti-corrosive and humidity resistant</li> <li>• Shelf Material: 3mm Hylem sheet.</li> <li>• Shelves: illuminated shelves in one rack are: 04nos.</li> <li>• Total no. of shelves (including top) in one rack: 05 nos.</li> <li>• Fluorescent Tube lights: Four 40W tube lights (Philips) in each shelf of each rack, with 2 nos. of electronic ballast chokes; one is for operating two tubes. Total no. of tube lights in one rack: 16 nos. with electronic ballasts= 8 nos.</li> <li>• One mains switch for each castor rack.</li> <li>• One separate switch is provided for every 2 tubes.</li> <li>• One fuse for one rack.</li> <li>• Four castor wheels in a rack for easy movability.</li> <li>• Timer for each rack.</li> <li>• Side holder rods, on each shelf prevent the bottles etc. from falling from the three sides of a shelf, i.e. On the left, back &amp; right.</li> <li>• Front side is used for keeping or removing the bottles etc.</li> </ul>	35228.00	



Tender Coordinator  
Equipments/ Instruments



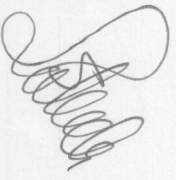
Member Secretary  
Central Purchase Committee



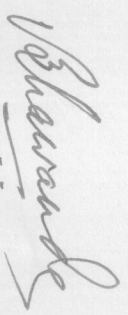
Chairman  
Central Purchase Committee



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11.	GREEN HOUSE	<ul style="list-style-type: none"> <li>• Size: 50 ft x 20 ft x 11 ft : 8" ( L x W x H height at the center: on sides)</li> <li>• Roof : Hut shape/Dome with Buffer room – 5" x 6" x 8"</li> <li>• Sketch drawing and design should be attached.</li> <li>• Civil Works : CC foundation, Brick wall 2 feet below and 2 feet above ground level, duly plastered.</li> <li>• Base PCC 3" thick 18" wide , 13" wide 4" high first base line , then 9" wide second base line, Frame base block height 3" x 9" x 9"</li> <li>• CC block at equal distance.</li> <li>• Floor: Out Side of green house made of crushed bricks with graded stone ( Rodi ) which is further flushed with 4:3:1 (Rodi:sand:cement) &amp; Inner side floor is natural.</li> <li>• Single central path way is required inside. Infra structure : GI (47 mm x 47mm ± 2mm) ISI standard IS 1239</li> <li>• class B Super Structure: GI (47 mm x 47mm ± 2mm ) ISI standard IS 1239 class B anti-corrosive, humidity resistant square pipe.</li> <li>• Pipe to pipe distance 3"</li> <li>• 2" for maximum wind load conditions with Anodised Aluminium strips, duly treated with necessary fastening accessories and bolts.</li> <li>• Glazing / Cladding : High quality UV stabilized 50 % Polycarbonate sheet (Luxan) 6mm thick.</li> </ul>	926790.00	<p><b>M/s. Aakanksha Chemicals,</b>  Shriraj Complex,  Opp. Khandelwal Bhavan, Nehru Park Square,  Akola. 444001.</p> <p>Phone:  9823230623</p> <p>Email :  aakankshachem@rediffmail.com</p>



Tender Coordinator  
Equipments/ Instruments



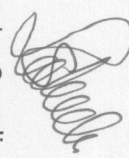
Member Secretary  
Central Purchase Committee

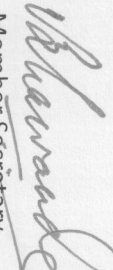


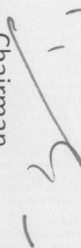
Chairman  
Central Purchase Committee

Sr. No.	Name of Equipment	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
12.	<p><b>Poly House</b></p> <p>• Poly House Specification (Fan &amp; Pad system) Size: 50" x 20" x 11" : 10" ( L x W x H height at the center: on sides) with opening for release of hot air at centre top with operable window system. • Model : Hut shape/Dome with Buffer room – 5" x 6" x 8" • Civil Works : CC foundation (1:3:6), Brick wall 2 feet below and 2 feet above ground level. Base PCC 3" thick 18" 10 wide, then 13" wide 4" high first base line, then 9" wide second base line, Frame base block height 3" x 9" x 9" CC block at equal distance. • Floor: Out Side of green house Made of crushed bricks with graded stone ( Rodi ) which is further flushed with 4:3:1 (Rodi:sand:cement) &amp; Inner side floor is natural. • Path way is 47 minimize inside centrally. Super Structure: GI (60 mm, 48 mm ± 2mm round pipes ) ISI standard IS 1239 class B anti-corrosive, humidity resistant square pipe. • Pipe Anodised Aluminium strips, duly treated with necessary fastening accessories and bolts, along with Silicon (translucent) treatment for additional holding and thermal safety. • Glazing / Cladding : High quality UV stabilized Poly film 200 micron, Multivalled. • The poly film will be fixed to Aluminium profile with zikzak spring. • Doors: flush door opening ( Door size : 6"3" x 3" ) of Anodised Aluminium section with Polycarbonate sheet 6mm thick as cladding material with lock and pinion system. • Cooling System Evaporative Cooling System (ECS) : Fan &amp; Pad system with Cellulose Pads 100 mm thick. • Pad Size : 20" x 5" . • Along with water softner and filtration unit to prolong the life of the pad. • On opposite wall heavy duty Slow Speed Axial Flow Fans 48" Single phase (with GE/CG motor) with aluminium louvered covering. The internal &amp; external surface area of the Fan and pad are covered with filter screen of 40 x 40 mesh Nylon mesh covering cooling pads. • Cement underground water storage tank of 10000 liter capacity with metal door opening with lock and key arrangement, 1 HP Submersible Texmo / Cromption greaves pump ( ISI make ), GI Tray, Filter, water Distribution system and other accessories. • Lighting System Lighting System: Four tube lights on two walls inside and four tube lights on four corner of greenhouse on outside required. • Humidity System Humidification: Through DAN (Israel) micro misting system with Leakage Prevention Device ( LPD ) with capacity to maintain RH :- upto 90%-95%, ± 4% in side the whole Green House, provide micro filter unit, return gutter, control valve assembly, pressure gauge " fitted with 1 H.P. Texmo/ Cromption greaves submersible pump set. • Control Panel for Green House 1. Microclimatic Temperature Controller Specifications: Real time microprocessor based user programmable PID Controller. • 4 digit LED display for displaying measured values and another 4-digit LED display for displaying Set point lock within the setting panel to protect setting 11 changes. • Level lock to ensure that the parameter can be read but cannot be changed. Sensor failure indication. • Display resolution 0.1 .Accuracy 0.1 C. Wide selectable temperature range, ranges from 0 to 1000C. • Microclimatic Humidity Controller Specification: Real Time microprocessor based On / Off control for Humidifying / Dehumidifying. Display Accuracy – indicating value 0.2% 1 digit. • Electrical Wiring Electrical Device: High quality ISI approved fittings with copper multi strand twisted FR Grade with proper M.C.B. with appropriate electrical points of 5 Amp &amp; 15 Amps ( Anchor make ) Plumbing Water Connection: Water connection with one tap in Poly House with elbow operated tap, distributed through corrosion free pre coated GI pipe of appropriate diameter (3/4" or 1/2" ) Stainless Wash Basin (1 No.), Drainage Points should also be provided. AMC of two years should be included in prize beyond warranty period and also mention the warranty period</p>	716869.00	<p><b>M/s.</b>  <b>Akanksha</b>  <b>Chemicals,</b>          Shriraj          Complex, Opp.          Khandelwal          Bhavan, Nehru          Park Square,          Akola. 444001.          Phone:          9823230623          Email :          aakankshachem          (@)          rediffmail.com</p>

Detail specifications of Equipment / Instrument

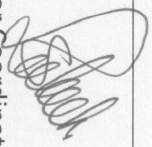
Tender Coordinator  
  
 Equipments/ Instruments

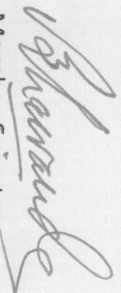
Member Secretary  
  
 Central Purchase Committee


Chairman  
  
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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
13.	TLC Photo documentation	<ul style="list-style-type: none"> <li>• White light EPI, EPI UV 254 nm and 365 nm, 20x20 cm TLC plates, computer based system. 16-bit CCD (65,536 grey levels resolution) camera.</li> <li>• Camera chip quality: Grade 0, zero defect, 6 position filter wheel, F-590 emission filter, Auto exposure, Progressive Scan, Dynamic range 4.0 OD.</li> <li>• USB super-fast connection.</li> <li>• UV timer, security switch, GLP compliance.</li> <li>• 1D software: Fully automated image acquisition program.</li> <li>• Image comparison (compare two or several image in a single view)</li> <li>• Image enhancement, annotation, 3-D image view</li> <li>• Quantification, Automatic exposure, RF, IEF calculation.</li> <li>• Lifetime unlimited License Freeware.</li> </ul>	1395000.00	<b>M/s. Aakanksha Chemicals,</b> Shirraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com
14.	Tissue Lyser	<ul style="list-style-type: none"> <li>• Should be useful for mixing, disrupting small amounts of biological samples, for Molecular biology analysis.</li> <li>• Should be able to pulverize two samples from 0.2 to 20 ml at the same time.</li> <li>• For cell disruption should have a capacity to process 20 Samples at a time.</li> <li>• Should be able to process hard, semi hard, soft, elastic, fibrous material.</li> <li>• Feed size – up to 8 mm, sample volume 2 x 20 ml</li> <li>• Mean grinding time – 2 to 3 mins</li> <li>• Should be able to do dry grinding, wet grinding and cryogenic grinding</li> <li>• Digital pre-selection of vibrant frequency, digital time 0.2 min to 99 mins</li> </ul>	418500.00	
15.	Semi Dry Transfer Unit With Built In Power Supply	<ul style="list-style-type: none"> <li>• System should include In-built Power supply which should automatically monitors the transfer status and stopping the transfer before the stack overheated.</li> <li>• Semi Dry transfer Unit should support as many as two layers of gels.</li> <li>• System must have power setting of 30 V, 500 mA, 15 W.</li> <li>• System must have a capacity for 14 X 16 cm transfer area which can handle up to 4 mini gels by stacking it.</li> <li>• Unit must use minimum quantity of buffer to transfer proteins and nucleic acids in less than an hour.</li> <li>• System must have molded base w/platinum coated Titanium anode and high voltage leads.</li> <li>• Safety circuit breaker should be included.</li> <li>• Electrode should be vented for preventing bubble formation during transfer.</li> </ul>	206928.00	

  
 Tender Coordinator  
 Equipments/ Instruments

  
 Member Secretary  
 Central Purchase Committee

  
 Chairman  
 Central Purchase Committee

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
16. ✓	Digital Moisture Meter/ Balance	<ul style="list-style-type: none"> <li>• Capacity – 50 gm, Readability – 0.001 g, Pan Size – 100 mm.</li> <li>• Easy &amp; Fast Moisture Determination. 3 types of Testing Methods:- Manual, Time Programmable, Automatic. Weighing based on EMFC technique. Heating by infrared halogen tube heater. Temperature range upto 2000C(1°C). Moisture range: 0.05% to 100%. • Moisture measurement: Unit- % wet base; % dry base; dry weight, dry to wet weight.</li> <li>• Display of time, temperature, weight &amp; percentage moisture.</li> <li>• Graphical backlight LCD for displaying setup parameters, testing parameters &amp; results. Interface For Connecting to a computer / printer. Data storage upto 50 tests. 10 programmable memory. Time based moisture loss on the graphical display. Study of Pattern of Moisture loss by printing/ Display on computer screen of online dataelapsed time, present sample weight and percentage moisture loss. Elapsed time interval can be programmed -10,20,30,60 &amp; 120 Seconds • Moisture Content : Accuracy : 0.1% for sample above 5g (std. dev.) 0.5% for sample below 5g</li> <li>Resolution : 0.1% Specifications Taring Range : Up to full capacity</li> <li>Power Req : 90-250V, 50/60Hz, 550 Watt</li> <li>Operating Temperature : 15 to 45 deg C</li> </ul>	66831.00	<b>M/s. Aakanksha Chemicals,</b> Shriraj Complex, Opp. Khandelwal Bhavan, Nehru Park Square, Akola. 444001. Phone: 9823230623 Email : aakankshachem@rediffmail.com
17. ✓	Water Bath	Thermostatic circulatory water bath with temperature range 5-100 °C with resolution upto 0.1° C; Temperature Accuracy : +/- 0.02°C at 25°C; Heater of at least 2kW for quick heating; Over temperature protection; Pressure pump: more than 10 liters /minute; Display : LED Display; Power Requirement: 220-240 VAC, 50Hz. Size : 17x13x4”	29842.00	
18. ✓	Drought & Salt Screening Hydroponics Chamber	Should have a) Temperature control b) Humidity control c) Nutrient (salt concentration display) d) Light arrangement with at least 300 lux in the intervenal chamber e) All display of nutrient status (salt), light intensity, humidity, temperature should be on exterior side. f) Flexibility in setting all parameters needed	3545455.00	

18 out of 23

Tender Coordinator  
 Equipments/ Instruments

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Chairman  
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19.	Magnetic Stirrer with Hot Plate	Top Plate Size - 10-20cm X 10-20cm Top material - Ceramic/ Metal ,Capacity - up to 5 lit Should consist of temperature controller & speed regulator	5775.00	M/s. Alka Trading Corporation, Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037.
20.	Orbital Shaker	Bench-top model ,Speed range up to 20-300 RPM.Should have clamps of assorted sizes for holding different capacity glass flasks. With Timer, speed regulator & touch type on/off switches	26932.00	M/s. Alka Trading Corporation, Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037.
21.	Hot Air Oven	Size 60 cm x 60 cm x 90 cm with 2 stainless steel trays with holes, operated on 230V, 50Hz single phase AC supply and having temperature ranging between 50 - 150°C with least count 1°C, double walled chamber -Inner made of stainless steel SS 304 grade and powder coated outer surface, provide with three heating elements on three sides of the equipment for uniform temperature on all shelves, be provided with air circulating fan and with air ventilations and a variable microprocessor based digital temperature controller with digital display and thermometer should be provided separate.	47932.00	M/s. Alka Trading Corporation, Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037. Phone:7769004111 Email : atco.mindray@gmail.com bisen.atulsingh@gmail.com

Tender Coordinator  
Equipments/ Instruments

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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
22.	Binocular Microscope	<p>• Ergonomically designed rugged stand for longtime comfortable usage.</p> <p>• Carrying handle should be built-into the stand. • Microscope should be with infinity optics with anti-fungus treatment. • Built-in Transmitted light illumination with 6V 30W halogen lamp with easy lamp changing module and should have provision to replace the same with white light long lasting LED illumination by the user. • External main power supply with electronic main control from 110V to 240V. • Back tilted Quadruple revolving nosepiece with precision click stops confirming paracentric field of view for all objectives. • ABBE Condenser with numerical aperture 1.25 with built-in aperture diaphragm. • Slide Stage should have ball bearing specimen holder and should have right handed coaxial X and Y movement. • The travelling range of the stage should be 75 x 30mm with vernier • Interpupillary distance should be variable between 50 mm to 75mm or better. • Binocular tube should be fully made of metallic and should not have any plastic covers. • Paired Eyepieces with 10x magnification, field of view 18mm and should be suitable for spectacle wearers. • Both eyepieces should be with front focusable eye lenses with +5 dioptre correction. • High contrast Fully Plan Achromatic objectives, 4x/0.10, 10x/0.25, 40x/0.65 and 100x/1.25 oil. 40x and 100x front optics are spring loaded.</p> <p>• All the objectives should be of parafocal corrected for easy specimen focusing in various magnifications. • Microscope should be upgradeable for Dark field, Phase contrast and incident light LED fluorescence techniques. • Microscope should include daylight and green filters, immersion oil and dust cover marking. • The stage focus movement range should be 15mm or more with coaxial coarse and fine focus knobs on either side of the stand.</p> <p>• The minimum step size of the fine focus should be 2 micron or better.</p> <p>• Focus stop mechanism to protect slide damage should be available.</p> <p>• Inclined Binocular tube with 30deg swiveling eyepiece tube and adjustable viewing height of atleast 40mm (Siedentopf tube, viewing heights 385 to 425mm).</p>	48720.00	<p><b>M/s. Ailka Trading Corporation,</b> Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037.</p> <p>Phone: 7769004111</p> <p>Email : atco.mindray @gmail.com bisen.atulsingh @gmail.com</p>

Tender Coordinator  
Equipments/ Instruments

Member Secretary  
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Central Purchase Committee



Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
23	Trinocular Research Microscope	<p>• Epi-fluorescence with LED Illuminator and Transmitted Light, Bright field, Dark field and Phase contrast studies with Universal Condenser and dedicated Digital Camera with Imaging Software. • High stability stand with rust proof and acid proof painting. • High quality optics with latest Infinity Colour Corrected System (ICCS) for high brightness, rich contrast and superb colour correction. All optics coated with anti-reflection / anti-fungal treatment. • Quintuple revolving reverse looking nosepiece should accommodate at least 5 objectives with precision click stops, with ribbed grip for easy rotation. • Modular Illumination of minimum 12V/35W Halogen illumination with "pre-centered" lamp mount for easy lamp changing (should be capable of LED illuminator) • Built-in "variable" field diaphragm with full Koehler-illumination setting and filter clamping device to mount filters on the field diaphragm. • Special white balance filter to provide white light for visual observation available as an option. • Abbe Condenser with aspherical lens, N.A. 0.9/1.25, with focussing and centering provisions. • Mechanical stage, hard coat anodized surface for scratch free movement, with right handed co-axial low positioned X-Y scanning control knobs with scanning range 75x30 mm, vernier graduation, with right handed spring loaded specimen holder. • 30° inclined ICS optics Trinocular tube, 360° rotatable, suitable for eyepieces upto field of view 20 mm /22mm. I.P.D. range 55-75mm and eyepiece tubes can be swivelled either way for comfortable viewing angle of the operator. • 100% perfect "Koehler illumination" setting is possible due to focussable &amp; centering condenser and variable field diaphragm • Eyepieces with 10x magnification, field of view min 20mm suitable for spectacle wearers with front soft rubber cup. Focussable eyepieces are with ± 5 diopter adjustment. • High contrast Plan-achromatic ICS objectives "A-Plan", 10x/0.25, 20x/0.45, 40x/0.65 and 100x/1.25 oil. 40x and 100x front optics are spring loaded for BF, DF, Phase and Fluorescence application. • LED illumination for Fluorescence with 4-position reflector turret and easy exchange of fluorescence filters by Push &amp; Click method. Fluorescence filters for FITC and DAPI with appropriate LED modules. • Dedicated micro-imaging CCD camera with min 5 Mega Pixel resolution for brightfield, darkfield, phase and fluorescence imaging with appropriate adaptor and PC/Laptop. • Digital Microscopy Camera including Software driver, FireWire interface, interface cable. Number of Pixels should be minimum 2452 (H) x 2056 (V) = 5.0 Mega pixel color. Pixel size not less than 3.45 µm x 3.45 µm. Chip size not less than 2/3". Frame rate should be minimum 9 fps at maximum resolution. • Camera software should be useful with following features • Graphical user interface can be switched between bright or dark design to adapt to ambient brightness. User interface offers stepless scaling and zooming for optimal adjustment to the screen size. Interactive measurement of length, contour-based • measurement data (area, box perimeter, gray values), angle. Management, visualization and printing of data and images.</p>	505892.00	<p><b>M/s. Alka Trading Corporation,</b> Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037. Phone: 7769004111 Email : atco.mindray@gmail.com bisen.atulsingh@gmail.com</p>

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24. ✓	Rotary Shaker	<ul style="list-style-type: none"> <li>• The unit should have variable speed from 20RPM to 300 RPM, Digital speed display, shaking amplitude should be 40mm.</li> <li>• Should have universal platform to accommodate interchangeable clamps, automatic restart at preset. • Platform size should be 24"x24". • Clamps should be quoted with the equipment.</li> </ul>	68932.00	<b>M/s. Alka Trading Corporation</b> Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Beltarodi, Nagpur. 440037. Phone: 7769004111 Email : atco.minidray@gmail.com bisen.atulsingh@gmail.com
25. ✓	BOD Incubator	<ul style="list-style-type: none"> <li>• The construction should be double walled with PUF insulation provided with door having locking arrangement and inner glass door.</li> <li>• Temperature range : 5.0 °C to 60.0 °C • Temperature resolution: 0.1 °C Temperature accuracy +0.2° C. • Temperature uniformity: +1°C.</li> <li>• Temperature Control : Microprocessor based PID Control. With Auto Tune CE Marked. • Temperature sensor accuracy :+0.25 °C. • Temperature Display : Digital LED 3½ digit. • Air circulation : Flange motor with impeller / blower. • Heating : 'U' Shaped Nichrome Wire heater in SS Sheathing.</li> <li>• Cooling: CFC Free Copeland Make compressor utilizing R 134A eco friendly refrigerant, with condenser, motor, relay complete unit Copeland Make. • Chamber illumination: Fluorescent light with door switch. • Feet : Castor wheels. • Trays : SS wire mesh heavy duty.</li> <li>• Electrical: 230V / 15A / 50 Hz. • Volume more than 300 Liters.</li> </ul>	89932.00	Filters: Aluminum framed High Efficiency Particulate Air (HEPA) filter, with a minimum efficiency of 99.99% at 0.3 micron. <ul style="list-style-type: none"> <li>• Pre filter: Washable type Pleated pre-filter FRP Body frame PU coated</li> <li>• Construction should be of GI Powder coater or SS with SS working top</li> <li>• Air flow: 90 FPM (0.45 m/s) +/- 10 FPM (0.05 m/s) average velocity measured 6 in (152.4 mm) from the diffuser screen, uniformity +/- 20% of average or better • Noise Level: &lt; 65 DB measured at 1 mtr from filter face</li> <li>• Work Area – 6' x 2' • Voltage: 230V, 50Hz • Power Consumption: 300 Watts • Fluorescent Lights: 2 x 40 Watts • Ultra Violet Lights: 18 Watts</li> <li>• Power socket: 5 A • Should be with glass bed Sterilizer • Material of construction should SS 304, at least 1 mm thick • Crucible size should be 150 x 50 mm • Crucible should be 16 gauge brass tube • Main body should be mirror finished • Controller should be electronic</li> </ul>
26. ✓	Laminar Air Flow With Sterilizer		131932.00	

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27. ✓	Horizontal Cylindrical Autoclave	<ul style="list-style-type: none"> <li>• Working temperature should be 121 0C</li> <li>• Mode of heating Electrically heated Chamber, back plate, door plate, jacket, steam generator SS 304 grade Steam generator Stainless steel 304 quality. • Door gasket should be of Neo-prene rubber gasket.</li> <li>• Insulation should be of fibre glass wool. Should have multiport valve for the process of sterilization cycle Door should be pressed by M. S. radial arms duly plated.</li> <li>• The door shall be fitted with an automatic self pressure locking device Should have a safety device "Accidental Vacuum breaker".</li> <li>• Electrically operated steam generator attached to the jacket. It shall be fitted with water immersion type heating elements</li> <li>• Water level indicating gauge with guard Should have pressure control switch to control the boiler/jacket pressure.</li> <li>• Electrical control box; equipped with contactor, indicating lamps, toggle switch etc. (Volume 200 Liters)</li> <li>• Loading trolley with wheel should be quoted separately</li> </ul>	147525.00	<b>M/s. Alka Trading Corporation,</b> Om Shri Sai Villa, B. No. : G-15, Shri Sai Shradha Park, Near MBA College, Pruthviraj Nagar, Belarodi, Nagpur. 440037.
28. ✓	Digital Water Bath Circulator	<ul style="list-style-type: none"> <li>• PID Controller with timer, control accuracy +/- 0.10C for water and +/- 0.20C for oil, high temperature safety alarm, built in circulating pump for external devices, CE certified, temperature range - -10 to 1200C</li> <li>• Capacity 20 liters</li> </ul>	72082.00	Phone: 7769004111 Email : atco.mindray@gmail.com bisen.atulsingh@gmail.com
29. ✓	Hot Air Oven	<p>Inner Chamber Size: 60x60x60cm; Temperature Range: PID Control with timer, Ambient to 250°C ± 1°C; Electronics: Micro controller based digital display of temperature; Alarm: audiovisual alarm for temperature deviation; Display: 2x16 character alphanumeric LCD display with backlight; * PT 100 Temp. Sensor; Reduced overshoots across set point; Energy efficient control of temperature; Fast response/correction rate to the changes in the temperature. across set point.</p>	47932.00	
30. ✓	Pipette Set	0.2ul -5000ul of different ranges	2743.00	
31. ✓	Mechanical Shaker	Orbital shaker with 16 clamps of 250ml capacity; Shaking speed 20-200 orbital strokes/min with digital speed indicator; Tray size : 425x425mm	26932.00	

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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
32.	MICROWAVE DIGESTER	<p>• System should be advanced, based on continuous microwave heating technology and should have provision to control temperature and pressure simultaneously inside the vessel. • The chamber should be made of extra thick and special corrosion resistant material for physical protection as well as chemical resistance. • Microwave digestion system must have a delivered power output with a range of 1800-2400 Watts with dual magnetron system. • Vessels should be fully closed, corrosion resistant of any acid and alkali liquids and gases; shouldn't crack or break upon explosion. • System must have a built in pressure sensor with a computer software &amp; LCD screen to display and record different parameters, samples, temperature, pressure and power variation curves in real time, and should have capacity of storing reaction schemes indefinitely. • System should have inbuilt programs &amp; methods as well as facility of creating the new user defined program. • System must have operating system with touch screen display for entry of operating parameters and sample. The system should also display the microwave output into the cavity to be able to see if there was an exothermic reaction especially in case of organic samples. • System software must automatically adjust the power delivery based upon sample load and pre-programmed control settings.</p> <p>• System must have a device to protect them against neutron from back-reflected energy. Preferably through an Isolator. • System should have capability to accommodate 15 - 20 high pressure vessels and 30-40 medium pressure vessels of capacity 100ml, at a time. • All sensors, including pressure and temperature sensing devices located within the microwave cavity, are microwave-transparent or shielded to ensure accurate readings and to eliminate arcing (ignition) hazards. • System must be equipped with an advanced temperature sensor (optical fiber or Pt thermowell) monitor and can control temperature upto 300°C in all the vessels. • Pressure sensor should be piezo crystal with a pressure range upto 15MPa. • System should have capability of accommodating samples vessels of varying capacity.</p> <p>• System should have good microwave penetrating property and heat conductivity with quickly heating and cooling property. • System should have electronic as well as mechanical dual control door lock. • There should be many layered intensified steel structure which can withstand glass explosion and with an automatic pop up buffer structure. • Material of inner vessel should be made up of PTFE/ TFM. • System should contain sample stirring provision inside the vessel. • All accessories must be provided along with instrument for installation, operation and maintenance. • The system should be able to digest soil, plant, manures and animal samples. Technical Training • Warranty will start from the date of installation.</p> <p>• 3 years free AMC should be provided after completion of warranty period.</p> <p><b>Note:</b> Breakup price of all the parts should be given separately.</p>	1557200.00	<b>M/s. Analytical Instruments Consortium,</b> 78, Nagen dranath Road, Dumdum, Kolkata Pin-700028 (WB)  Phone: 033-25510554 25798910 Email: <a href="mailto:sales@analytical.in">sales@analytical.in</a>

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33. ✓	Integrated HP TLC System For Quantification, Identification, Finger Printing And Micro-Preparative Separations.	<ul style="list-style-type: none"> <li>• High Performance Thin Layer Chromatography</li> <li>• HP TLC SYSTEM MANAGER software to control, document and manage all the instrumental steps of</li> <li>• HP TLC analysis incl. application, development, scanning and photorecording. Communicates in both directions with all connected instruments. 32 bit analysis.</li> <li>• Upgradable periodically. • Methods can be created and stored. • Single report per analysis.</li> <li>• Enables analysis report to include all related data such as time, date, name of the analyst / sample / place etc.</li> <li>• Random report no. – to be prevent mix-up of two prints of same analysis.</li> <li>• GLP compliant. 3rd generation.</li> <li>SAMPLE APPLICATION</li> <li>• SEMI AUTOMATIC SPOT / BAND APPLICATOR</li> <li>• Sample spot / band applicator :</li> <li>• Fifth generation sprays sample to plate.</li> <li>4 mode Applicator --- 1) Quantitative analysis, 2) Micro-preparative isolation, 3) In-situ addition of internal std. or reagents 4) Superimpose. 10-method memory storage, standalone or System Manager control.</li> <li>• Sample positioning on X &amp; Y axis freely selectable, variable automatic rate of delivery, 100 µl syringe for analytical work &amp; 500 µl syringes for micro-preparative work. • Self diagnostic + software link to System Manager built-in. CHROMATOGRAM DEVELOPMENT</li> <li>• CHROMATOGRAM DEVELOPMENT CHAMBERS</li> <li>• All glass, moulded, one piece, bubble free chamber for TLC/ HP TLC. Bottom divided into two equal halves with a sloping divider.</li> <li>• Chamber top and bottoms (both outside the chamber and inside the two troughs) should be perfectly parallel to each other.</li> <li>• Chamber ground finish on top for good seal and at bottom for perfect level.</li> <li>• Heavy chamber to minimize effects of vibration.</li> <li>• One piece joint less moulded chambers prevent leakage and tough to handle</li> </ul>	4100000.00	<p>M/s. Anchrom Enterprises (I) Pvt. Ltd., 101, A Wing, Aniket Apartment, Navghar Road, Mulund (E), Mumbai. 400081.</p> <p>Phone: 022 21639928 .29.30</p> <p>Email : hptll@anchrom.in</p>

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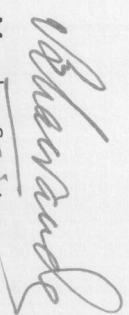
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	<p>while cleaning. • Stainless steel rust proof lid with overhang to completely seal the chamber.</p> <ul style="list-style-type: none"> <li>• Appropriate sizes for 20x20 cm, 20x10 cm and 10x10 cm plates.</li> <li>• UV Cabinet</li> <li>• TLC SCANNER WITH DATA EVALUATION :</li> <li>• Computer controlled Scanner / Densitometer for automatic spectrum scanning for identity check as well as purity check; Automatic quantitative measurement by absorbance &amp; 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 optics Macro / Macro for HPTLC measurements;</li> <li>• 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 + self diagnostic + Service dialog + Universal filter for fluorescence all built-in; scan slit size variable; bandwidth selectable 5 or 20 nm.</li> <li>• Data evaluation 32 bit software (latest version), Excellent S/N ratio.</li> <li>• High reproducibility; Controlled by System Manager, Automatic / Manual data integration, Auto baseline correction. Spot check facility.</li> <li>• 3D display with data storage. Calibration – single level, multilevel, linear / non-linear. Statistics CV / CI.</li> <li>• Reproducibility check facility. Auto calculation of data from wts and dil. Factors, Computer generated random no. for each report (GLP compliance).</li> <li>• 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.</li> <li>• SOFTWARE OPTIONS FOR SCANNER</li> <li>• Option H.1:- Multi wavelength evaluation : Measures, stores and calculates automatically quantitative results from upto 31 wavelengths. All data stored &amp; 3-D displayed in 3 ways. • Colour plots of data.</li> <li>• Automatic quantification with respect to _ max of each separated fraction, in absorption &amp; fluorescence mode.</li> </ul>		
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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
34.	Gradient Thermal Cycler	<ul style="list-style-type: none"> <li>• Maximum block ramp rate :4°C/sec</li> <li>• Maximum sample ramp rate :3°C/sec</li> <li>• Temperature accuracy :±0.25°C (35 to 99.9°C)</li> <li>• Temperature range for protocol run :0°C to 100.0°C</li> <li>• Temperature non-uniformity :&lt;0.5°C</li> <li>• Dimensions • Height: 21 cm (8.27 in)</li> <li>• Width: 24.0 cm (9.45 in)</li> <li>• Depth: 46 cm (18.11 in) • Weight 8.5 kg (18.3 lb)</li> <li>• PCR volume range</li> <li>• Supported: 10 - 100 µL • Settable: 1 - 100 µL</li> <li>• Instrument memory USB, on-board</li> <li>• Display interface: 8" color TFT LCD</li> <li>• Power :100-240 V, 50-60 Hz Max: 600 W • VeriFlex™ blocks</li> <li>• 3 VeriFlex™ zones with better than gradient feature</li> <li>• Supported 10°C (5°C zone-to-zone)</li> <li>• Settable :20°C (10°C zone-to-zone) • Simulation mode availability to replicate other PCR brand thermal and ramping conditions. • Ambient humidity 15% - 80% Relative Humidity, non-condensing (acceptable range) with Preloaded Protocols</li> <li>• Electro-blotting system which can transfer protein as well as Nucleic acid from 10x10 cm gel.</li> <li>• Electro-blotting system which can accommodate at least 4 gels cassettes simultaneously.</li> <li>• System must come with asymmetric color –coded cassettes so that they cannot be inserted in wrong direction in any case.</li> <li>• Fibre pads should come with the system so that they can compress the gel against the nitrocellulose membrane for uniform transfer.</li> <li>• System should be having plate-electrodes 12.8cm apart so allows the rapid transfer of gels. • System can be connected to external chiller for cooling by snap-lock connectors which should be provided with the system.</li> <li>• System external dimension should not be more than 20 x22.5x 18.5 cm (WxDxH).</li> </ul>	285000.00	<b>M/s. Biolinx Labystems Pvt. Ltd.</b> 203, Technocity, Plot No x-5/3, Opp. Millennium Park, Mahape, Navi Mumbai-400710 Phone : 022 27786081,82 Email: info@biolinx.net sales@biolinx.net
35.	Western Blotting System	<ul style="list-style-type: none"> <li>• Electro-blotting system which can accommodate at least 4 gels cassettes simultaneously.</li> <li>• System must come with asymmetric color –coded cassettes so that they cannot be inserted in wrong direction in any case.</li> <li>• Fibre pads should come with the system so that they can compress the gel against the nitrocellulose membrane for uniform transfer.</li> <li>• System should be having plate-electrodes 12.8cm apart so allows the rapid transfer of gels. • System can be connected to external chiller for cooling by snap-lock connectors which should be provided with the system.</li> <li>• System external dimension should not be more than 20 x22.5x 18.5 cm (WxDxH).</li> </ul>	120000.00	sales@biolinx.net

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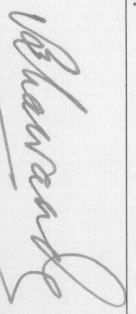
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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
36.	Water Purification System	<ul style="list-style-type: none"> <li>• Tap to ultra pure water system – UV/UF minimum 3 LPH.</li> <li>• Three stage pretreatment system with 10, 5 and 1 micron spun filters with activated carbon prefilter 5 micron.</li> <li>• Should produce pure and ultra pure water from tap water for analytical applications.</li> <li>• Should be able to dispense Type I water from tap and Type II water from tank.</li> <li>• It should be single stage system to produce bacteria free ultrapure water.</li> <li>• Should have RO, DI, UV and Ultra filter in single unit.</li> <li>• It should have a integrated 6L polyethylene food grade, opaque conical bottom tank with sterile vent filter to prevent contamination by microorganisms in the environment.</li> <li>• It should have recirculation facility to maintain consistent peak water purity.</li> <li>• It should have cartridge change indicator.</li> <li>• The production rate of the unit should be 3 L/Hr and should have provision for upgradation to higher volumes.</li> <li>• The dispense rate should be 1 L/min.</li> <li>• Output water quality should be: <ul style="list-style-type: none"> <li>• Flow rate – 3 Ltrs./Hr. @ 250C</li> <li>• Dispensing rate – 1.0 L/min.</li> <li>• Type 1 water quality – 18.2 M<sub>1</sub> – cm @ 250C</li> <li>• Type 2 water quality – 10 – 15 M<sub>1</sub> – cm @ 250C</li> <li>• TOC – 1-5 ppb</li> <li>• Bacteria - &lt; 1 CFU/ml</li> <li>• Endotoxin - &lt; 0.005 EU/ml.</li> <li>• pH – Effectively neutral.</li> </ul> </li> </ul>	14625.00	<p><b>M/s. Chetan Refrigeration,</b>  Shyam Nagar,  Congress Nagar  Road, Amravati-  444606.  Phone :  9226701235  7507214411</p> <p>Email:  chetan.refrigeration  @yahoo.com</p>

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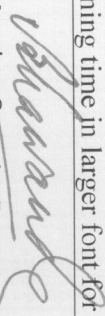
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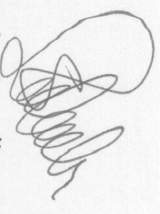
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37.	CO2 Module	Module for attachment to minus 80 degree celsius freeze to keep it cool during power failure	126000.00	
38.	PCR System With Flexibility, PCR Setup And Post PCR Analysis	<ul style="list-style-type: none"> <li>• PCR system with flexibility to use 0.1 mL / 0.2 mL / 0.5 mL PCR tubes / 96-well PCR plate in the same block with no requirement to swap or change the block. • Preprogrammed PCR templates in addition to conventional protocol should include touchdown PCR, long range PCR, low volume PCR, nested PCR, Reverse transcription, etc.</li> <li>• Peltier technology based heating and cooling with patented Triple Circuit Technology, to ensure precise control of temperature</li> <li>• Temperature control range: from 4 °C to 99°C, with ramp rates of 3°C/s (heating) &amp; 2°C/s (cooling)</li> <li>• Temperature Control Mode: Fast, Standard and Safe • Lid Temperature range: 37 - 110 °C</li> <li>• Block Temperature Accuracy: ± 0.2°C</li> <li>• Block Homogeneity: ± 0.3° C (20° C to 72° C); ± 0.4° C (95° C) • Lid descent and closing pressure - Flexlid technology with Thermal sample Protection</li> <li>• Intuitive Graphic programming with larger display</li> <li>• Administrator and user login with or without PIN for enhanced security • Booking schedule allow users to reserve the instrument in advance</li> <li>• Time or Temperature increment with cycles in PCR program • Adjustable ramp rate from 0.1° C to 3.0° C to meet critical amplification conditions</li> <li>• Customized programming allows a maximum of 20 steps and 99 cycles • Auto Restart facility with user defined time interval when power fails and resumes • Instrument status indicates the step, cycle and remaining runtime during the run</li> <li>• Runtime display shows remaining time in larger font for better view</li> </ul>	580000.00	<p><b>M/s. Eppendorf India Ltd.</b>  Plot No. 18,19,20 (Part), Ambit Park Road, Sidco Industrial Estate (South Phase), Ambattur, Chennai. 600058.  Phone: 9372421680  Email: info@eppendorf.co.in</p>

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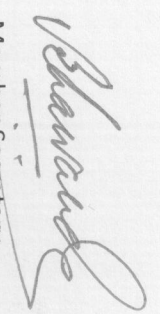
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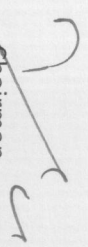
	<p>from distance</p> <ul style="list-style-type: none"> <li>• Two USB ports: for Protocol transfer, Self-test, USB, printer / mouse</li> <li>• Log book function for error messages and new calibration • E-mail Notification</li> <li>• Power save Standby function • Cooling vents at bottom and rear allow placing other instruments in limited bench space • Option to connect up to any of TWO Mastercycler nexus eco variants in future for ultimate throughput • Optional Self-test dongle to check functionality of all 6 pettier elements</li> <li>• Interface: USB, Ethernet, CAN in, CAN out</li> <li>• Calibration of PCR machine is to be according to NIST (USA), DKD/PTB (Germany) UKAS/NPL (UK), UL/cUL listed</li> <li>• Compact centrifuge with rotor to handle 1.5 mL tubes and adapters for 0.2 mL PCR tubes to use in the same rotor, which can go up to 13,400 rpm or 12,000 g.</li> <li>• Should include PCR reaction preparatory consumables such as 1.5 mL Safe-lock tubes and 0.2 mL PCR tubes • Should include pipette one each to handle volume ranges, 2 – 20 µL and 20 - 200µL along with appropriate &amp; compatible tips.</li> <li>• Supplied pipettes should have spring loaded tip cone technology for perfect fit of the tips to ensure volume accuracy even if used by different users • Should supply IsoTherm system to place 1.5 mL tubes and PCR cooler to hold 0.2 mL PCR tubes in order to prevent PCR reagents from temperature influence</li> <li>• Must provide compact electrophoresis unit along with power</li> <li>• Should supply UV-transilluminator for viewing agarose gel and a camera to capture the gel profile</li> <li>• Should supply reagents for 50 PCR reactions</li> </ul>		
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39.	Liquid Handling System	<p>• System should be suitable for applications like making serial dilutions; plate reformating from 96 well to 384 well &amp; vice versa. plate replication in 24 well, 96 well or 384 well formats; concentration normalization; • Hit-picking; reagent transfer from reservoirs; low volume assay set-up (like PCR, Real Time PCR and sequencing set-up); pooling of samples from plates to tubes, media change for cell culture; compound testing; magnetic bead set up; cell assays and immunoassays; cell seeding; cell aliquoting; apoptosis tests; cyto-toxicity tests; cell viability tests and soft agar test. • Should have features such as pipetting pattern recognition for fast and easy programming. • Should have Contamination free Air cushion pipetting Technology with disposable tips.</p> <ul style="list-style-type: none"> <li>• Should have pipetting range from 1 µl to 1,000 µl.</li> <li>• Should be an open system for Labwares of various vendors.</li> <li>• Should have pipetting tools with single- and eight-channel heads. • Should be able to pipette, multi dispense and carry out serial dilutions. • Should be capable of handling liquids with different physical properties like density, viscosity and vapor pressure. • Free jet dispensing, while dispensing tips are not allowed to dip in to liquid, to minimize cross-contamination.</li> <li>• Typical pipetting precision should be &lt; 2% CV at 1 µl.</li> <li>• Should be compatible with 0.2 ml PCR to 50 ml blue-cap tubes; 6 to 96 and 384 well plates. • Should be able to use filter and non-filter tips, should be able to discard tips as per the need. • Should have a separate container for tip disposal. • Should be possible to integrate the same in common laminar flow . • Should have optical infrared detector for contact-free detection of labwares, tips, and liquid levels. • Should have easy to use software with pre-loaded labware files. • Should be capable of validating the program and check for required labware, reagent levels and their positions before commencing the work. • Should have 4-position deck and all routine pipetting capability. • The system should provide an option to control automated pipetting by either the PC or the control panel.</li> </ul>	1950000.00	<p><b>M/s. Eppendorf India Ltd.</b>  Plot No. 18, 19, 20 (Part), Ambit Park Road, Sidco Industrial Estate (South Phase), Ambattur, Chennai. 600058.  Phone: 9372421680  Email: info@eppendorf.co.in</p>

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40.	Nanophotometer	<ul style="list-style-type: none"> <li>• Quantification of sample volumes from 'Microlitres to Millilitres'.</li> <li>• Optics must have the combination of xenon flash lamp with holographic aberration-corrected concave grating and receiver as CMOS photodiode.</li> <li>• Operating principle must be with two beams: Absorption single-beam spectrophotometer with the reference beam.</li> <li>• Instrument should operate moment switched on with no warming up time.</li> <li>• Should be compact &amp; stand-alone system to handle sample volume ranging from 1.5 µL to 4 mL.</li> <li>• UV/Vis wavelength range from 200 nm to 830 nm, with spectral scanning feature.</li> <li>• At least there should be 100 installations of BioSpectrometers.</li> <li>• Low volume measuring surface must be of quartz and must be hydrophobic.</li> <li>• System should also allow using conventional quartz/glass/plastic cuvettes in addition to low volume measurement.</li> <li>• Must allow rapid and reliable quantification of Nucleic acids and proteins, OD600, dye methods (to calculate the FOI (both nucleic acid &amp; protein)).</li> <li>• Should allow acquire data at user-defined wavelengths from 200 nm to 830 nm and at user preferred pathlength.</li> <li>• Detection range for dsDNA: 2.5 ng/µL – 1500 ng/µL (with defined pathlength of 1 mm).</li> <li>• Concentration via standard series must have curve fit evaluations viz., Regressions (linear, cubical, quadratic), and Interpolations (linear &amp; Spline) with curve sections in detail with view directly on the instrument display.</li> <li>• Should allow transfer of measured data to PC by connecting the device directly to PC without any additional software in addition to transfer the data via USB stick.</li> <li>• Must have evaluation methods with factor, standard or standard series.</li> <li>• Must have Multi – wavelength, Dual-wavelength applications with subtraction and division analysis.</li> <li>• Pre-programmed methods for a quick start.</li> <li>• Direct operation on the device, with no requirement for PC.</li> <li>• Measuring results (&gt;1,000) can be saved directly on the device.</li> <li>• &gt;100 method programs in memory.</li> <li>• Spectral band width: &lt; 4 nm</li> <li>• Photometric measuring range: 0 A to 3.0 A at 260 nm</li> <li>• Random error: 0.002 if A = 0, 0.005 (0.5 %) if A = 1</li> </ul>	460000.00	<b>M/s. Eppendorf India Ltd.</b> Plot No. 18, 19, 20 (Part), Ambit Park Road, Sidco Industrial Estate (South Phase), Ambattur, Chennai. 600058. Phone: 9372421680 Email: info@eppendorf.co.in

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41	Vacuum Concentrator	<ul style="list-style-type: none"> <li>• System should be a Centrifugal Vacuum Concentrator with integrated vacuum pump for biological applications</li> <li>• System and pump should be highly resistant for organic solvents like Acetonitrile, DMSO, chloroform etc</li> <li>• System should have three operational modes for Aqueous, Alcohol and Highly Volatile solvents</li> <li>• System should possess four temperature selections (room temperature, 30 °C, 45° C, and 60 °C) to allow safe and efficient concentration of biological samples</li> <li>• System should support Centrifugation and Desiccator function</li> <li>• Run time: 1 min to 9:59 hrs in increments of 1 minute or infinite</li> <li>• Centrifuge should have a fixed rotational Speed of 1,400 rpm</li> <li>• System should have imbalance detection</li> <li>• System should support multiple lab ware formats (0.2 ml, 0.5ml, 1.5ml, 2 ml, 15ml conical tubes, 50 ml conical tubes, 96 well PCR plates, MTP and Deep well plates) with different rotors</li> <li>• System should be able to concentrate samples upto a maximum capacity of 300 mL</li> <li>• Rotors and adapters must be autoclavable</li> <li>• Capacity of built-in pump: 1.7 m3/h • Max. Vacuum: &lt; 20 hPa (&lt; 20 mbar)</li> <li>• System should have an emission condenser with volume approximately 275 mL to purify outlet air. • Should be optionally supplied with a suitable cold trap</li> </ul>	485000.00	<b>M/s. Eppendorf India Ltd.</b> Plot No. 18, 19, 20 (Part), Ambit Park Road, Sidco Industrial Estate (South Phase), Ambattur, Chennai. 600058. Phone: 9372421680 Email: info@ eppendorf.co.in
42	Hemispheric Camera	Hemispheric camera with 360° all round view for seamless room surveillance 6-megapixel sensors Complete panorama view with no blind spots and additional display modes Digital, continuous panning, tilting and zooming Robust, with no moving parts Optional color sensor or with B/W sensor (0.02 lux at 1/60 sec, 0.001 lux at 1 sec exposure time) Integrated microphone, speaker and intelligent motion sensors, shock detector Integrated DVR (up to 128 GB), weeks of recording	141750.00	<b>M/s. Glorich India Pvt. Ltd., 87, DSIDC Complex, Bapu Park, Kotla Mubarakpur, New Delhi- 110003.</b> Phone: 0120-4237807 Email: manish@ glorichindia.com

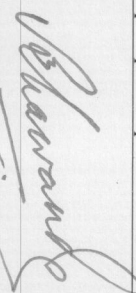
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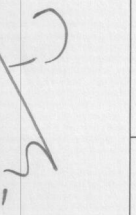
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43.	Real Time PCR System	<p>• An automated system for both real-time PCR and post-PCR (end-point) analysis using in-built Peltier based PCR machine.</p> <p>• System should support applications including absolute quantitation, simultaneous analysis data for relative quantitation, multiplex-PCR, allelic discrimination (SNP), dissociation curve analysis, HRM as well as pathogen detection and plus/minus assay using internal positive control. • The normalization of reaction due to non-PCR related fluctuations such as pipetting variations should be possible by using ROXTM or any calibrated dye. Selection or de-selection of passive reference during the run should be optional.</p> <p>• The hardware must provide Peltier thermal cycling system with a temperature range of 40C-100 oC. • System should support reaction volume 10-30 µL and 21 universal thermal cycling conditions to eliminate optimization of PCR conditions for running the templates from different sources simultaneously. • The system should be compatible with tubes and wells. • System should be able to set six different temperature profiles or exact gradient temperature during same run. • Also it should be able to run standard 96 well plate. It should be possible to alter the plate setup after run completes.</p> <p>• The data collection and instrument control software should provide multicomponenting algorithm for deconvolution of multiple dyes, enabling addition of new dyes without any hardware change. • Dedicated licensed full version software for primer and probe design must be included in the supply. • The quoted system must have full license for PCR process. A copy of the license must be attached to the offer. • The system should be able to perform high resolution melting (HRM) application. • The system should have a capability to perform fast(less than 40 minutes) and standard reactions on same block without hardware change. • The system should have all modern facilities like touch screen, USB port, stand alone operation, e mail alerts etc. • The system should be supplied with separate Lap top/computer with color printer.</p>	1290000.00	<p><b>M/s. Himedia Laboratories Pvt. Ltd.,</b>  A-516, Swastik Disha  Business Park, Via  Vadhani Industrial Estate,  L.B.S. Marg, Mumbai.  400086.</p> <p>Phone:  022-61169797  25001607  Email:  info@himedialabs.com</p>

  
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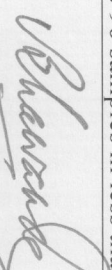
  
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44.	Automated Electrophoresis System	<ul style="list-style-type: none"> <li>• Should have chip electrophoresis system using micro fluidice based technology.</li> <li>• Should have analysis range of DNA bp up to 12000 bp. System should be fast enough to process 96 samples in within minutes.</li> <li>• Should have minimum detection limit of fragments of samples.</li> <li>• Should operate at temperature range up to 40 to -45°C as well as humidity range up to 85% RH ( noncondensing).</li> <li>• Should be provided with all installation software</li> </ul>	2490000.00	<b>Imperial Life M/s. Imperial Life Sciences (P) Ltd.,</b> 463, Pace city II, Sector 37, Gurgaon, Haryana (India). 122001. Phone: 9711098882 Email: info@imperialls.com
45.	Capillary Gel Electrophoresis System	<ul style="list-style-type: none"> <li>• On Chip capillary electrophoresis system capable of essentially size analysis and quantification of DNA and RNA • Automated from microchip preprocessing to data analysis. • System capable of analyzing 96 samples in less than 60 minutes.</li> <li>• Minimum Application volume : less than 10µl</li> <li>• Minimum Detection limit : • DNA analysis : 0.1ng/µL, • RNA analysis : 5 ng/µL (total RNA), 25 ng/µL • Sizing Accuracy: ± 5 bp (25 bp to 1000 bp), ±15%(1000 bp and above) • Sample Volume : Sample working volume of 0.150 µL</li> <li>• Data Analysis: Capable of automated data analysis, including statistical analysis, including statistical analysis such as %, CV, Mean &amp; Deviation etc., and digital data can be saved in/ exported to a database or shared, formatted result tables/ graphs exportable to reports. • Software support for RNA quality analysis • System has user independent data interpretation. • System uses internal standards to calculate results. • Additional Specifications: • Complete assessment of RNA quality for better gene expression data • Exact sizing and quantitation of DNA fragments • Extreme accuracy with resolution down to 5 bp and sensitivity of 0.1ng/µl • Flexible with 96 and 384 well compatibility • Comprehensive and quantitative analysis with LabChipGX software analyze 96 samples in less than an hour.</li> </ul>	2495000.00	



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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
46. ✓	Portable (Handled) X-Ray Fluorescence (PXRF) Spectrometry	<p><i>Excitation Range:</i> 4W Rh, Au, or Ta anode (per application) X-ray Tube  <i>Analytical exploration:</i> Dual beam fundamental parameter algorithm achieving lowest of detection for exploration samples as well as percent level grade control, Mg, Al Si, K, Ca, S, P, Cl, Ti, V, Cr, Mn, Fe, Co, Ni, Cu, W, Zn, Hg, As, Pb, Bi, Se, Th, U, Rb, Sr, Y, Zr, Mo, Ag, Cd, Sn, Sb, limit optimized for Alloy Mode (P2000A), Ti, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, W, Hf, Ta, Re, Pb, Bi, Zr, Nb, Mo, Pd, Cd, Ag, Sn, Sb  <i>Detector Large:</i> Area Silicon Drift Detector  <i>Analytical Range:</i> Alloy and Mining: Mg and up for Rh/Ag and Al and up for Ta/Au; Soil: P and higher  <i>Weight:</i> 1.5 kg (3.25 lbs) without battery  <i>Dimensions:</i> 260 x 240 x 90 mm (10.25 x 9.5 x 3.5 in.)  <i>Environmental Temperature Range:</i> 10 °C to 50 °C (14 °F to 122 °F)  <i>Processing Electronics:</i> 530 MHz CPU with integrated FPU with 128 MB RAM; Proprietary Olympus Digital Pulse Processor (DPP)  <i>Power:</i> Rechargeable Li-ion battery; Hot-swap maintains analyzer per during battery charge  <i>Data Display:</i> 32 bit Color QVGA resolution, Blankviewtransmissive backlit touch screen; 57 x 73 mm (2.25 x 2.9 in.)  <i>Data Storage:</i> 1 GB micro SD (stores ~75,000 readings)  <i>Data Transfer:</i> USB, Bluetooth®  <b>Standard Accessories</b></p> <ul style="list-style-type: none"> <li>• Carrying Case</li> <li>• Li-ion Battery</li> <li>• Electronic User Manual and User Interface Guide and Printed Quick Start Guide</li> <li>• Battery Charger</li> <li>• Mini-USB Cable</li> <li>• 3165 Stainless Steel Calibration Check Reference Coin</li> </ul>	1880000.00	<p><b>M/s. LabIndia Analytical Instruments Pvt. Ltd.,</b>  201, Nand Chambers, LBS Marg, Near Vandana Cinema, Thane. 400602.  Phone: 09773505697.  Email: kadamsp@labindia.com</p>

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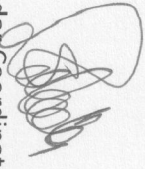
Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
47.	Atomic Absorption Spectrophotometer	<ul style="list-style-type: none"> <li>• We intend to purchase fully PC controlled Double beam Atomic Absorption Spectrometer which should have Flame with integrated graphite system having the following specifications.</li> <li>• Monochromator: Czerny-tuner Monochromator with a diffraction grating of 1800 lines/mm using a Photo multiplier tube Detector.</li> <li>• Wavelength Range: 187-910 nm. • Focal length should be 300 mm.</li> <li>• Software selectable variable Spectral bandwidth upto 2nm.</li> <li>• Deuterium Arc / Self reversal upto 2.5 Absorbance</li> <li>• Automatic 8 lamp turret to hold 8 different lamp.</li> <li>• Coded Hollow cathode Lamps Single Element.</li> <li>• Air Acetylene Burner Head (100 mm) and N2O burner head (50 mm) separately quoted in main system.</li> <li>• The instrument should have programmable and computer controlled gas controls both for Air Acetylene/Nitrous Oxide</li> <li>• All the method parameters related with lamp selection, lamp current and heating, calibration, control of flow gases should be through windows based software.</li> <li>• The system should have all safety features required for the system which includes Burner identification, Flame Sensor, Gas Leak Sensor, Low Gas Pressure Sensor, and Drain Trap Sensor &amp; Power Loss Protection. • The AAS unit will be operated with windows Software for controlling analyzer, setting-up the method parameters, analyzing the samples, performing calibrations, etc.</li> <li>• Hydride Generator (Optional) (for elements - As, Se, Hg, Bb, Bi, Sb, Sn, Te) using flow mode with heated quartz cell controllable through Computer</li> <li>• ACCESSORIES TO BE QUOTED IN MAIN SYSTEM</li> <li>• Acetylene Regulator • Nitrous Oxide Regulator Heated</li> <li>• Nitrous Oxide Burner Head • Acetylene Gas with Cylinder</li> <li>• Nitrous Gas with Cylinder • Argon Gas Cylinder with regulator</li> <li>• Air Compressor • Vent and Hood Assembly with 10ft. ducting.</li> <li>• PC and Printer</li> <li>• Standard solutions for Hollow Cathode Lamps mentioned above.</li> </ul>	1665000.00	<b>M/s. LabIndia Analytical Instruments Pvt. Ltd.,</b> 201, Nand Chambers, LBS Marg, Near Vandana Cinema, Thane. 400602. Phone: 09773505697 Email: kadamsp@labindia.com

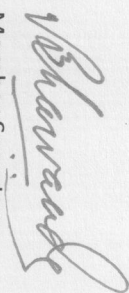
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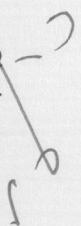
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48.	Water Bath	Signal walled S.S. chamber.S.S. top with holes & concentric rings Water over flow arrangements.Rested on an angle iron frame.Fitted with Immersion heater which will self eject on getting dry.Along with temperature controller	4520.00	<b>M/s. Labline Instruments (India) Pvt. Ltd.,</b> 2 <sup>nd</sup> Floor, Agrawal Complex, Rallies Plot, Amravati. 444601.
49.	Vortex Shaker	Vibration type, Variable speed response cup impact, Vigorous agitation to tubes, Along with touch on/off switch.	4290.00	
50.	VDRL Shaker/ Gel Rocker	Platform - 250-300 X 250-300 mm Variable speed. For staining electrophoresis gels.	17400.00	
51.	White Light Illuminator	With an optimized anti glare surface To observe PAGE gels.	9520.00	Phone: 0721-2679123 Email: labline.ip@gmail.com labline.ip@rediffmail.com
52.	Inverted Microscope Trinocular	<ul style="list-style-type: none"> <li>The model should be for bright field and phase contrast applications (300 inclined interpupillary 48mm-75mm) having 6V30W halogen light illuminator.</li> <li>Quintuple, revolving nose piece.</li> <li>Coaxial coarse stage (160x250mm) with glass insert.</li> <li>Auxiliary stage 70x180mm, condenser LWD 72mm.</li> <li>Long working distance plain infinity brightfield objectives 4X and 40X &amp; phase contrast objectives 10x and 20x with phase annulus plate and high eye point.</li> <li>extra wide field eyepiece EW10x (F.N.22).</li> <li>The unit should have long working distance plan infinity optics, pre-Centered phase annulus.</li> <li>Trinocular port and excellent field flatness.</li> </ul>	142000.00	
53.	Analytical Balance	<ul style="list-style-type: none"> <li>Readability : 0.1mg</li> <li>Capacity : 220g</li> <li>Display : LCD display for ease in reading &amp; avoid fatigue</li> <li>Repeatability (at Nominal Load) : 0.1mg</li> <li>Typical Value for Repeatability (at Nominal Load) : 0.08mg</li> <li>Linearity Deviation : 0.2mg</li> <li>Typical value for linearity deviation (sd) : 0.06mg</li> <li>Sensitivity Temperature drift : 2 ppm/deg C</li> <li>Settling time : 2 seconds</li> <li>Adjustment : Internal Calibration.</li> <li>Material of Constructions : Material die cast body reinforced with ABS Plastics.</li> </ul>	53000.00	
54.	Electrophoresis Vertical Indian With Power Supplies	<ul style="list-style-type: none"> <li>Student Electrophoresis with power supply Vertical models Mini, Midi and Maxi.</li> </ul>	12950.00	

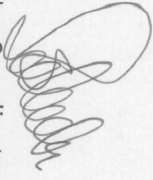
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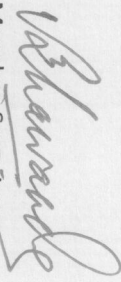
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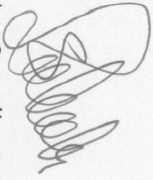
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55.	UV Spectrophotometer	<p>True Double beam spectrophotometer with following specification.            Operation: Instrument with capabilities like multi wavelength photometric, spectrum, time scan, kinetics, multi component quantitation, DNA and protein quantitation.  <b>Hardware:</b> 1. Range: 190nm to 1100nm 2. Monochromator: Blazed holographic grating with Crenzy Turner Mountings. 3. Spectral Bandwidth: 1nm 4. Wavelength accuracy: +/-0.3nm over entire range 5. Wavelength repeatability: +/-0.1nm 6. Wavelength scanning rate: from 2nm/min to 3000nm/min            7. Lamp Changeover: Automatic and user selectable lamp changeover between UV to visible Range. 8. Light source: Separate Deuterium and tungsten lamp for UV and VIS range. 9. Stray Light: less than 0.02% 10. Photometric accuracy: Minimum +/-0.002 Abs 11. Photometric repeatability: +/-0.001Abs.            12. Baseline Stability: Less than 0.0003Abs/hr after one hour of light source turn ON. 13. Baseline Flatness: less than +/-0.0006 Abs after one hour after light source turn ON. 14. Noise level: less than 0.00005Abs. 15. Detector: Silicon Photodiode. 16. Validation: Instrument should have in built validation tests. Instrument should be provided with at least 4 USB port for data storage on thumb drive, connectivity to computer and printer directly to instrument. Data stored in thumb drive should be at least in text format and transferable to MS Excel. Instrument should have facility to take print outs from instrument on printers directly  <b>Software :</b>Software should be able to perform spectrum, kinetics and quantitation with normalization, peak pick, point peak, area calculation, derivatives, smoothing, reciprocal, square root, log, Abs to %T, averaging, interpolation, data set and constant arithmetic, multiple factors and user design equation, display of standard and sample table simultaneously with calibration and sample curve. Software should be GLM and GMP compliant with multilevel security and history. Software should have user design report formatting with various type of pre defined formatting included including multi page layout.</p>	279000.00	<p><b>M/s. Motras Scientific Instruments Pvt. Ltd.,</b>            EA-146,            Inderpuri, New Delhi. 110012.            Phone: 011-25835821            9810018049            Email: info@motras.in</p>

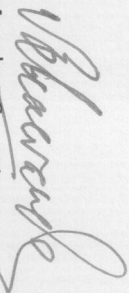
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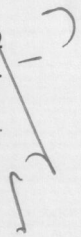
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56. ✓	Chlorophyll Content Meter	<ul style="list-style-type: none"> <li>• Should measures chlorophyll content of plants to reduce the risk of yield-limiting deficiencies or costly overfertilizing.</li> <li>• Should quantify subtle changes or trends in plant health long before they're visible to the human eye.</li> <li>• Non-invasive measurement; simply clamp the meter over leafy tissue, and receive an indexed chlorophyll content reading in less than 5 seconds.</li> </ul>	180000.00	<b>M/s. Nu-Tech International,</b> UG-2, 77-80 Shiv Vihar (West), Vikas Nagar, New Delhi. 110059. Phone: 011-32919226 9310009222 Email: info@nutechintl.com
57. ✓	Pulp Packaging Machine	<ol style="list-style-type: none"> <li>1. PSCV 7209 VERTICAL CONTINUOUS POUCH SEALER               <ul style="list-style-type: none"> <li>• SPEED 9 Meter/Minute</li> <li>• Sealing Width 12 mm</li> <li>• Conveyor Belt Width 200mm</li> <li>• Power Single Phase 50 Hz,</li> <li>• M/C.DIM. 1540 x 525 x 1515 mm</li> </ul> </li> <li>2. PSCV 7205 VERTICAL CONTINUOUS POUCH SEALER               <ul style="list-style-type: none"> <li>• SPEED 4 Meter/Minute</li> <li>• Sealing Width 12 mm</li> <li>• Conveyor Belt Width 125 mm</li> <li>• Power Single Phase 50 Hz,</li> <li>• M/C.DIM. 800 x 440 x 380 mm</li> <li>• Variable drive (PMDC MOTOR) extra.</li> </ul> </li> </ol>	80073.00	<b>M/s. PSH Sales and Services,</b> Mangaldas Market, Tiak Road, Akola. Phone: 0724-2436597 Email: psh_aki@rediffmail.com pshakola@gmail.com
58. ✓	Cocopit	for hardening of of tissue culture plants in greenhouse per 1000 kg	17000.00	

  
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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
59.	Podium With Projector And Screen	<p>Instructor Stand</p> <p>Body :It should be in Mild Steel with dimension 39.37" x 29.13"x41.54" or bigger . The Foldable Tray meant for Keyboard and it should open up in front of the Interactive Monitor . Should have built-in Visualizer and 19" Interactive Panel .It should also have the flexible options in sizes for the 17" , 19" or 21.5" Interactive Panel to fit in. Interactive Panel positioning motorized up and down as per the user convenience . Should have single Sliding tray to Protect the Interactive panel and for foldable Key board tray. The metal edges at the top should be covered by flat wood panels with smooth round edges. Should have a Independent space for the Desktop along with the 19" rack having for the equipments to fit in as per the International standards. It should have Sliding Shelf / Tray with Locks for placement of extra laptop or Documents and for the Visual presenter with Internal Lock.</p> <p>Central Control System : Should be able to control from the Controller with easy identified keys - Projector On Off, Motorised Screen Up &amp; Down , Switching between PC, Visual Presenter and laptop, Front Panel should have a VGA Port , 3.5mm Audio Input Port and a Power Plug , Should have 1 RS 232 Computer Interface , 1 RS 232 Projector Control ; 3 x 2 VGA matrix , 2x 1 audio Matrix , 1 Projector Power , Electric Screen Power, Power Input:</p> <p>AC 100-240V auto-switching power, Remote Control of the Central Control System should have a LCD Screen , and which should also act as a Mike , should have a laser Pointer , PPT slides/pages up and down , Projection Screen Up and Down , Mic Volume High and Low , Central Control System Power on/off . Projector Signal/Source Changing.</p> <p>Audio Built-in : 1 x Gooseneck Mike , 1 x Handheld Cordless mike, 1 x Cordless Collar Mike. Amplifier:120 watt ; Wall Mount Per Speaker Power (02 No.s ) 20 Watt each. Extension Board for more Connection : Inputs - Should have Built-in RGB, USB, LAN Port. Audio in, Audio Out,</p> <p>Power Plug etc.; RGB Input for Extra PC-1 External RGB Input apart from the input</p>	366400.00	<p><b>M/s. PSH Sales and Services,</b> Mangaldas Market, Tilak Road, Akola.</p> <p>Phone: 0724-2436597</p> <p>Email : psh_aki@rediff mail.com pshakola@gmail .com</p>

Tender Coordinator  
Equipments/ Instruments

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<p>of the PC in the lectern to facilitate another PC / Laptop / Visualizer . Document camera; USB - 2 USB Ports on the control panel to facilitate inputs directly from Pen Drives / USB based hard disk Drive; LAN Port - LAN Port to be available at the panel to connect the extra PC directly to the internet; Power Plug - Yes to give Power to any external equipment;</p> <p>Video Input- Video Input to facilitate any Video Source for Presentation ; Mic. Input- Wired Mic. Input Din Jack ( Stereo), Audio In- To Facilitate any external Audio. Interactive Panel - Panel Type: Active Matrix Color TFT, Display Size: 19" , Resolution: 1280 x 1024 pixels, Colors: 16.7 M, Brightness: 250cd/m2 or higher, Contrast: 800:1, Technology: Electromagnetic, Pen: Electromagnetic pen, Interface :USB, Input: 1 x VGA , Output: 2x VGA, 2 Speakers Built-in, Data Report:1024 levels, Data Report: 125 reports/per second, Accuracy: ±0.5mm , Max Reach Height: 8mm, OS: Windows / Vista / Mac / Linux, Software Feature: Should be able to Annotate on Blank and Power Point application with other application of Windows too. Should have the recording feature of text , audio and the Teacher Photo simultaneously and playing back.</p> <p>Visual Presenter: Pick-up Device:3 Mega Pixel 1/3" CMOS, Effective Pixels:1280(H) X 1024(V), Frame Rate:15 frames/sec., Image Mode</p> <p>:Normal/Photo/Text/Slide/Film/Gray, Zooming:9 X Optical Zoom, Lamp :Top Light:LED on the Arm, Image Capture :400 Built In Storage .,External Storage :USB based Pen Drive and PC, TV Lines:750 TV Lines, Image Rotation:0, 90, 180, 270 degree :Image Split :Yes, Built-in LCD:7" or bigger Touch LCD to Annotate on the live images, Menu : On Screen Menu at the Touch LCD and should be controlled by Finger Touch, Focusing and White Balance :Auto / Manual, Video Recording with Sound :Yes, Inputs :VGA Input HD-SUB 15 Pins Female x 1, Audio In x 1, Outputs :VGA Output HD-SUB 15 Pins Female x 2, DV Ix 1,Audio out x 1,USB x1,Computer Controllable :Yes, Weight :Portable. Not more than 3.0 Kg. Software :Should be provided free of cost for still image, video, capture to PC. Projector with Ceiling Mount Brightness:3500 ANSI Lumens and Above ;Technology :DLP;Resolution :XGA ( 1204 x 768 ) ;Contrast Ratio:17000: 1 and above ;Lens:X 1.1 or higher manual zoom;Inputs /Output:-Input :HDMI x1,VGA x1,S-Video x1,Composite Video x 1,Audio In x 2; Output:-VGA x 1 ,Audio Out x 1 ,9-pin D-sub x 1 ( RS-232 Control ),USB Mini B x 1;Lamp Life :Minimum 5000 Hrs Standard and 6000 Hrs ( Eco Mode ) Motorised Screen Size: 8 Ft x 6 Ft;Material :High gain;Remote Control :With Remote Control and Switch</p>		
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Equipments/ Instruments

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Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
60.	Net House	<p>• Size: 50" x 20" x 11" : 8" ( L x W x H height at the center: on sides)</p> <p>• Roof : Hut shape with Buffer room – 5" x 6" x 8"</p> <p>• Civil Works : CC foundation, Brick wall 2 feet below and 2 feet above ground level to duly plastered.</p> <p>• Base PCC 3" thick 18" wide , 13" wide 4" high first base line , then 9" wide second base line. Frame base block height 3" x 9" x 9" CC block at equal distance.</p> <p>• Floor: Out Side of green house made of crushed bricks with graded stone ( Rodi ) which is further flushed with 4:3:1 (Rodi:sand:cement) &amp; Inner side floor is natural.</p> <p>• Central pathway is required inside. Infra structure : GI (47 mm x 47mm ± 2mm) ISI standard IS 1239 class B</p> <p>Super Structure: GI (47 mm x 47mm ± 2mm ) ISI standard IS 1239 class B anti-corrosive, humidity resistant square pipe.</p> <p>• Pipe to pipe distance 3" 2" for maximum wind load conditions with Anodised Aluminium strips &amp; PCH , duly treated with necessary fastening accessories and bolts, along with Silicon (translucent) treatment for additional holding and thermal safety.</p> <p>• Shading: 75 % UV stabilized Agro shading net, Green color shading net.</p> <p>• Cement underground water storage tank of 10000 liter capacity with metal door opening with lock and key arrangement, 1 HP Submersible Texmo / Crompton greaves pump ( ISI make ), GI Tray, Filter, water Distribution system and other accessories.</p> <p>• Lighting System Lighting System: Four tube lights on two walls inside and four tubelights on four corner of nethouse on outside required.</p> <p>• Plumbing Water Connection: Water connection with one tap in net House with elbow operated tap, distributed through corrosion free pre coated GI pipe of appropriate diameter (3/4" or 1/2") Stainless Wash Basin (1 No.), Drainage Points should also be provided.</p> <p>• AMC of two years should be included in prize beyond warranty period and also mention the warranty period.</p>	258000.00	<p><b>M/s. Rajdeep Agri Products Pvt. Ltd.,</b> 3279/1, Ranjit Nagar, New Delhi- 110008.</p> <p>Phone: 011-25847771, 72 Email: rajdeepagri@yahoo.com</p>

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Equipments/ Instruments

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Central Purchase Committee

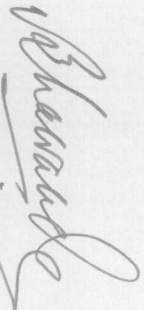
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Central Purchase Committee

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
61.	SEED GERMINATOR (DUAL CHAMBER)	<ul style="list-style-type: none"> <li>• Capacity (Cubic Feet): 20 Cu. Ft</li> <li>• Temperature Range: 5°C to 50°C</li> <li>• No. of Chambers: Double Chamber</li> <li>• Relative Humidity Range: 10% RH to 95% RH</li> <li>• Lighting: Fluorescent Lamps</li> <li>• No. of Trays: 2, 3 or 5 as required</li> <li>• Compressor: Branded Compressor</li> <li>• Timer: Automatic</li> <li>• Alarm : Audio / Visual Alarm for temp &amp; humidity deviations</li> <li>• Display: LED / LCD Display w/ Backlit</li> <li>• Wheels: Caster Wheels</li> </ul>	224991.00	<b>M/s. Scientific Corporation,</b> 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012  Phone: 0712-2443431 Email: scientific_corp@bsnl.in
62.	pH Meter	<ul style="list-style-type: none"> <li>• Display: LCD display</li> <li>• Range pH mV: 0 to 14.00 / 0 to + 1999</li> <li>• Temperature Compensation :Manual 0 to 100°C</li> </ul>	9311.00	scientific112@gmail.com
63.	pH Meter	<ul style="list-style-type: none"> <li>• pH Range : 0 to 14.00 pH</li> <li>• Millivolt Range : 0 to +- 1999 mV</li> <li>• Slope Correction : 80% to 110%</li> <li>• Resolution : +-0.01 pH ;1mV in mV mode</li> <li>• Repeatability : + -0.01 pH +-1 digit for pH, +-1mV +-1 digit for mV</li> <li>• Standardization Range : +-2pH (approx)</li> <li>• Temp. Compensation : 0 to 100C • Digital Display:</li> <li>• Power : 230V +- 10% 50Hz ,10VA (approx)</li> <li>• Accessories : Instruction Manual combine Electrode stand &amp; Clamp • Optional Accessories : Pt. Electrode &amp; Calomel Electrode for Potentiometric Titration temp. Sensor pt 100</li> </ul>	10555.00	

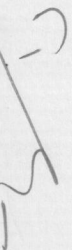
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Equipments/ Instruments



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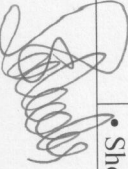


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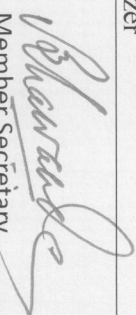





Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs.(inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
64.	Bacteriological Incubator	<ul style="list-style-type: none"> <li>• Digital PID temperature controller with timer, Alarm &amp; auto tuning. • Controller: Digital PID Control</li> <li>• Over temperature safety protection.</li> <li>• Internal Circulating fan for better control</li> <li>• Internal chamber of SS, Outer MS- Epoxy Coated</li> <li>• Round cornered chamber</li> <li>• Transparent tempered safety inner glass door</li> <li>• Shelf height adjustable in 25mm increments</li> <li>• Seamless round cornered edge of internal chamber ensures easy cleaning &amp; prevents any leakage.</li> <li>• Features: • Temp range: Ambient + 50C to 700C</li> <li>• Accuracy: ±0.2°C • Capacity : 90 lit</li> </ul>	34679.00	<b>M/s. Scientific Corporation,</b> 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in
65.	Rocking Shaker	<ul style="list-style-type: none"> <li>• Rocking shaker is used for staining and destaining gels, hybridization procedures and blotting techniques.</li> <li>• All the moving parts are fitted with bearings for quiet, trouble free and smooth operation. • Speed – 10-50RPM • Time – 99 hrs 99 mins</li> <li>• Maximum load – 10kgs • Power – AC 230V, 50Hz</li> </ul>	14681.00	scientific 112@gmail.com
66.	Motorless Magnetic Stirrer	<ul style="list-style-type: none"> <li>• It should have electromagnetic drive which has no moving parts, thus no maintenance. • Speed should be controlled from 100 to 1000 RPM and can the stirring capacity should be up to 3 liters.</li> </ul>	5900.00	scientific 112@gmail.com
67.	Seed Germinator	<ul style="list-style-type: none"> <li>• Temp range 100C to 600C, • humidity range 40% to 95% RH, • Should have precise monitoring of temperature and humidity conditions, with long life SS tubular heaters, microprocessor controlled,</li> <li>• LCD display, auto tuning of controller, self diagnosis of errors, PUF insulation, low water level alarm, high temp. safety cut off. Time delay, overload cutoff, adjustable trays: • Internal Volume 260 Liters</li> <li>• Internal body SS 304 grade, outer MS powder coated</li> <li>• Should be supplied with voltage stabilizer</li> </ul>	193545.00	



Tender Coordinator  
Equipments/ Instruments



Member Secretary  
Central Purchase Committee



Chairman  
Central Purchase Committee

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
68	Automated Fermentor	<ul style="list-style-type: none"> <li>• The system should be a compact autoclavable benchtop fermentor available in 7 L total volumes (Working Volume: 2.0L to 5.6 L) which can be controlled by single Master controller and designed for Microbial culture and provision to upgrade it for mammalian cell culture.</li> <li>• The vessels should be interchangeable Borosilicate glass, autoclavable with dished – bottom vessels with integrated water/gas manifolds with quick connect fittings for simplified setup, vessels available in waterjacketed and heat blanketed versions and made of borosilicate glass, autoclavable with dished-bottom.</li> <li>• Controllers should be capable of running either fermentation or cell culture mode.</li> <li>• System should be available with a variety of gas mix options ranging from 1 – 4 rotameters.</li> <li>• The Master Control Station should be capable of controlling up to 3 vessels simultaneously.</li> <li>• USB ports for Firmware update which are available on the company website on the controller.</li> <li>• The system should be suitable for both research and production purposes.</li> <li>• The system should be equipped with a bright color touch-screen interface about 8.4 inch/ 21.3cm touch-screen display.</li> <li>• The system should be supplied with at least 3 fixed speed peristaltic pumps, 12 RPM variable duty cycle or optional up to three variable speed pumps, up to at least three pumps integrated in controller console.</li> <li>• The system should use Platinum RTD probe for temperature sensing.</li> <li>• The system should use PID Control for heating and cooling, PID, link to pumps or gasses, adjustable deadband,</li> </ul>	199995.00	<b>M/s. Scientific Corporation,</b> 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012 Phone: 0712-2443431 Email: scientific_corp@bsnl.in scientific112@gmail.com

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Equipments/ Instruments

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Central Purchase Committee

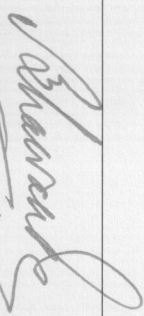
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69. ✓	Magnetic Stirrer	3425.00	<b>M/s. Scientific Corporation,</b> 112, First Floor, Ganesh Chambers, Mehadia Square, Dhantoli, Nagpur 440012
	<p>ADJUSTABLE DEAD BAND allows user to define upper and lower limits of pH. This upper and lower limit of pH will tune the bioprocess in a way that excess acid and base is not added into the broth causing acidic damage to cells.</p> <ul style="list-style-type: none"> <li>• The system agitation should be through direct-drive mechanism.</li> <li>• The agitation range and control should be from 50 - 1,200 RPM for fermentation and 25 – 400 RPM for cell culture. The control should be PID with manual, automatic or cascade settings.</li> <li>• The system should be supplied with 2 six bladed Impellers along with 316 L removable stainless steel baffles for fermentation system.</li> <li>• The system should be supplied with Ring sparger for aeration. Inlet filter should be 0.2µ.</li> <li>• Should have PH and DO Probes</li> <li>• The system should be supplied with one pH probe. The pH control range should be from 2 - 14, via PID links to pumps or gases and adjustable dead band.</li> <li>• The system should be provided with one DO probe. The DO probe range and control should be from 0 - 200%, via PID. The system should have a built-in cascade feature to automatically maintain DO set point.</li> <li>• The system should be supplied with one Foam / level sensor.</li> <li>• Software for data logging should be provided along with system.</li> <li>• The supplier must have good support for immediate service and application.</li> </ul> <p>Electromagnetic (motorless) stirrer ideally suitable for titration &amp; general lab. mixing of solution ; incorporate superior stepless speed controller to control the speed from 100 to 650 RPM; Stirring capacity upto 1000 ml.</p>		



Tender Coordinator  
Equipments/ Instruments



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Central Purchase Committee



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Central Purchase Committee

Sr. No.	Name of Equipment / Instrument	Detail specifications of Equipment / Instrument	Unit Rate in Rs. (inclusive of all taxes)	Name of Firm/ Agency/ Supplier with address
70.	Liquid Nitrogen Cans	<ul style="list-style-type: none"> <li>• Capacity: 1-2 lit, 10 lit, 20 lit, 30 lit.</li> <li>• Configuration Vertical</li> <li>• Inner Vessel Material: Stainless steel</li> <li>• Insulation: Vacuum + Multi layers super insulation.</li> <li>• Durable, tamper-proof lid design</li> <li>• Narrow-mouth</li> <li>• Low Level alarm system</li> </ul>	18369.00	<b>M/s. Varad Enterprises,</b> Aryabhata Colony, Gorakshan Road, Akola. 444004.
71.	Multi Wavelength Scan ELISA Reader	<ul style="list-style-type: none"> <li>• A spectral scanning unit for UV-visible- Near IR wavelength range, able to measure cuvette, 96 &amp; 384 microwell plate format and for low volume sample plate.</li> <li>• A monochromator based wavelength selection using Xenon Flash lamp as light source for better performance.</li> <li>• Instrument is able to provide the wavelength range from 200nm to 1000nm with 1 nm steps.</li> <li>• Spectral scanning speed: 10 sec from 200 to 1000 nm with 1 nm steps per sample.</li> <li>• Performance Specifications : <ul style="list-style-type: none"> <li>• Wavelength accuracy: 2 nm</li> <li>• Wavelength repeatability: 0.2 nm</li> <li>• Bandwidth: &lt; 2.5 nm</li> <li>• Read-out range: Up to 4 Abs</li> <li>• Stray Light: 0.05% @ 230nm</li> </ul> </li> <li>• The instrument should have inbuilt incubation and linear shaking options for bio assays etc.</li> <li>• Incubation temperature: from ambient +2 0C to +45 0C.</li> <li>• Measurement speed should be 6 sec. for 96 well and 10 sec. for 384 well plate.</li> <li>• System should be able to run in stand-alone mode using 4.5 inch color display and keypad.</li> <li>• System should be able to run with computer &amp; software controlled mode.</li> </ul>	203576.00	Phone: 0724-2458885 Email: varadentp@rediffmail.com

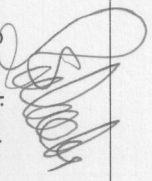
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Equiptments/ Instruments

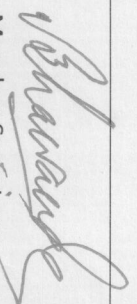
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	<ul style="list-style-type: none"> <li>• The instrument should have a memory of 99 inbuilt protocols in stand-alone mode.</li> <li>• The instrument should have 2 USB ports, one for the easy data transfer and another to connect printer directly to the unit.</li> <li>• System should have Power Save function for reduced energy consumption when the instrument is 'on' but not in use.</li> <li>• Instrument should have upgradation option for measuring accessory plate used for 16 low volume samples of 2µl-10µl, in case of DNA/RNA estimation.</li> <li>• Multiple Software language versions.</li> <li>• Data Analysis Software should be supplied with the instrument and has unlimited user system license.</li> <li>• Software should have option for area selection. i. e different protocols at different area of the same plate.</li> <li>• Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).</li> <li>• Spectral scanning of all 96 samples or 384 samples should be able to view in single graph plot.</li> <li>• Single software program should allow any number of measurement steps within the program.</li> <li>• Software feature should include, calibration curve fit, parallel line analysis, user defined equations etc.</li> </ul>	34814.00	<b>M/s. Varad Enterprises,</b> Aryabhata Colony, Gorakshan Road, Akola. 444004. Phone: 0724-2458885 Email: varadentp@rediffmail.com
72. Vacuum Pump	<ul style="list-style-type: none"> <li>• Compact, light, aluminium die cast construction, oil free, piston powered</li> <li>• Power 220V/50Hz,</li> <li>• Max Power – 375W, • Max Current – 3 Amp</li> <li>• Max Vacuum – 0.1 Torr • Motor Rotation – 1450 RPM • Max Flow – 127L/min, ½ HP • Noise level 52 dB</li> </ul>		

  
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Equipments/ Instruments

  
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