

Marathwada Krishi Vidyapeeth

Parbhani – 431 402 [Maharashtra State] India

TENDER NOTICE

Marathwada Krishi Vidyapeeth, Parbhani intends to purchase various equipments under State-of-Art grants to support P.G. research in basic and frontier science subject for different faculties in the university. The details of equipment along with specifications, terms and conditions of purchase are available in the Tender form. The Blank Tender will be available from **25.01.2012** in the office of the Director of Instruction and Dean, F/A, MKV, Parbhani during office hours by paying Rs. 3000.00 in the form of D.D. (only nationalized bank) drawn in favour of Comptroller, MKV, Parbhani. Also forms are available on University website and additional Rs. 500/- will be charged for downloaded application form from university website <http://mkv2.mah.nic.in>. The last date of submission of filled tender form is **08/02/2012 upto 16.45 hrs.**

The tenders will be opened on **10.02.2012 at 15.00 hrs.**

Place: Parbhani

Date : 25.01.2012

**Director of Instruction and Dean, F/A,
Marathwada Krishi Vidyapeeth, Parbhani**

**MARATHWADA KRISHI VIDYAPEETH
PARBHANI-43402 (M.S.)**

No. GGK/

Dt: 25.01.2012

Tender form No.	
FDR/CDR/TDR	
Amount	Rs.3000/-

To
M/s -----

Sub: Blank Tender Form
Ref: Your letter No.

Dt:

Sir,

This office is in receipt of Rs.-----by Demand Draft/Banker's cheque towards the blank tender form for the laboratory equipments/instruments required for various faculties of MKV, Parbhani. I am enclosing herewith the set of tender form as desired by you.

The earnest money deposit prescribed for the above mentioned quotations is @1% of the value of the equipments/instruments quoted by the tenderer.

You are requested to go through the terms and conditions of the tender before filling the tender form. The following points may be noted while submitting the tender form.

The EMD as prescribed above should be submitted in the shape of TDR/CDR/FDR of Nationalized Bank only drawn in favour of Comptroller, MKV, Parbhani and should be enclosed with the tender form.

The tender form should be submitted in the two **envelops A and B** both the envelopes should be super scribed as Envelop A and B.

Envelop A

- a. EMD for Rs._____in shape of TDR/CDR/FDR of Nationalized Bank only drawn in favour of **Comptroller, MKV, Parbhani as prescribed.**
- b. EMD exemption will be given if the valid certificate is enclosed
- c. Copy of valid VAT / certificate.
- d. Copy of firm registration certificate
- e. Copy of Partnership deed if any along with the general power of attorney.

Envelop B

Envelop B containing

- a. Rates of the equipments/instruments quoted on the tender form
- b. Undertaking in the prescribed form for supply of instruments/equipments.

Both the envelopes are to be enclosed in a large envelope addressed to the Director of Instruction and Dean, Marathwada Krishi Vidyapeeth, Parbhani and submitted on or before **08.02.2012 up to 15.00 hrs.**

Director of Instruction and

TERMS AND CONDITIONS

1. The tender should be accompanied with the **EMD** at the rate of **1%** for the value of the item(s) quoted by the tenderer. The **EMD** will have to be deposited in the form of TDR/CDR/FDR for one year of **Nationalized Bank** only drawn in favour of **Comptroller, MKV, Parbhani**. If the EMD is not enclosed, the tender will be rejected. The Earnest Money deposited by a firm or a person whose tender is accepted will be returned after six months of successful demonstration of equipment.
2. All the items will have to be supplied at **FOR Parbhani / constituent college under Marathwada jurisdiction**.
3. The equipments should be of the approved quality **ISI mark** or as per the sample called for in a specific case or the specifications given by this office in the tender. The item which do not confirm to approved specification(s) and consequently rejected will have to be replaced at the cost of the firm or supplier. In the absence or unsatisfactory supply, the items will be rejected and corresponding cost will be deducted from the suppliers bill.
4. The details with all specifications, make of equipments and also authorized dealer certificate from company should be accompanied with tender.
5. It is within the discretions of the **Chairman, Purchasing Committee** to increase or decrease the quantity of purchase and/or to relax the conditions in exceptional circumstances.
6. The items should be supplied within a period of **90 days** time limit from the date of issue of the orders for supply. In case of failure the Chairman shall have the right to purchase the article from the open market and to make good loss from the firm or supplier from his EMD or to impose a penalty @ Rs 50/- per item per day for the period for delay in supply. The decision of the **Chairman, Purchasing Committee, MKV, Parbhani** in the matter will be final.
7. It is open to accept even higher rates or to reject or to recall the tender without assigning any reasons thereof is reserved. Discretionary power of University authority to reject/accept tender without scrutiny and any prior reason is with **Chairman, Purchase Committee MKV, Parbhani**.
8. The rates of each item be stated separately. The rates should be quoted in the space provided in the tender form only. Each paper should be signed by the Tenderer.
9. The rates should be quoted as per tender specifications only, rates without the specifications will not be considered.
10. The tender should indicate the rates in metric system of weights and measures thereof showing conversion rate, it should be allotted in the unit shown in the tender form only.

11. The purchasing officer will not pay octroi, taxes or demurrage of the Municipal Corporation. The supplier will be responsible for this payment.

12. The supplier should note that the rates quoted should be inclusive of all admissible taxes.

13. Installation and demonstration of equipments with satisfactory performance should be given before the payment is made to the supplier. Payment will be made after satisfactory report is received from the concerned Intender /Scientists/Officer In charge / ADP.

14. The tender cover must bear the statement as **“Tender for supply of equipments (State-of-Art)”** and should be addressed to the **Director of Instruction and Dean, Faculty of Agril., Marathwada Krishi Vidyapeeth, Parbhani (M.S.)**.

15. The goods should be dispatched at suppliers risk, however, the supplier will be responsible until the entire items are supplied in good condition at the destination.

16. The material should have to guarantee/warranty of one year from the date of installation / demonstration. The material should be replaced within 15 days at the cost of supplier, if necessary.

17. The **tenderer must be registered under CST and MST etc.** Attested copy of such certificate must be enclosed in Envelop ‘A’ of the tender

18. The prescribed tender forms will be available in office of the **Director of Instruction and Dean, Faculty of Agril., Marathwada Krishi Vidyapeeth, Parbhani (M.S.)** and can be purchased on payment of **Rs. 3000/- in the form of DD/Banker’s cheque (nationalized bank only)** payable in the name of **Comptroller, MKV, Parbhani** up to **25.01.2012 and on the website of university by paying additional Rs. 500/-**. Website of the university is **<http://mkv2.mah.nic.in>**

19. The rate should be **valid up to one year** from the date of opening the tenders.

20. If the firm is under partnership, in that case attested copies of partnership deed certificate and power of attorney should be attached in the **Envelop A**.

21. Failure to observe any of the conditions mentioned above will result in the cancellation of the tender.

22. The **security deposit @ 4%** be deposited in the form of **TDR/CDR/FDR of Nationalized Bank only in favour of Comptroller, MKV, Parbhani**, a firm whose tender is accepted. The said amount will be returned after 6 months of successful demonstration with EMD.

23. The supplier should give assurance of maintenance support for further period of five years after guarantee period. In such case University will enter into AMC contract, if required.

24. For imported equipments, the original proforma invoices from principal manufacturer should be sent within a period of fortnight. Moreover, the suppliers / tender should complete the clearance of the imported equipments.

List of equipments to be purchase under State of Arts Funds (ICAR : 2011-12)

Sr. No.	Name of the items	Details of specifications	Cost
1	Laminar Air Flow	Working size 3'x2'x2' Size of HEPA filter 3'x2'x6'	
2	Autoclave	Digital model size 250x450 mm capacity 22 litre load 3.00 kw	
3	Automatic Milk Analyser	Size 250 x 450 mm capacity 22 litre load 3.00 KW	
4	Hot air oven	Size 455x455x455 mm capacity 95 liters, model 5.5, (304 grade) with air circulating fan	
5	BOD incubator	Suitable for BOD, enzyme and bacterial analysis μ P controlled with simultaneous display of set point and measured value Precise adjustable temp. control 4-40°C/5-50°C High performance twin blowers PUF insulation In-built power supply for stirrer Forced air circulation for uniform temperature capacity 360 lit.	
6	Horizontal Steam sterilizer	Horizontal Steam sterilizer (PH3) Cycle 50	
7	Microscope	Stereoscopic Trinocular Research Microscope with Digital Camera and Computer Attachment	
8	Nitrogen analyzer	A. Microprocessor based automatic macro block digestion system Twenty place macro block digestion system. Accessories for digestion system. B. Automatic Distillation system (Microprocessor based automatic simple distillation system with LED indication (auto alkali addition, auto steam generation auto water level monitoring and feather touch keys) C. VAC Acid Neutralizer scrubber	
9	Wet Sieve Shaker	Wet Sieve Shaker (Yoders type) with a set of sieves. Test sieves size 2mm – 2 number 1mm-2, 5mm-2, 212 mm-2 1mm	
10	Editing table with accessories	Core i5, 4 GB DDR 3 RAM, 1000 GB HDD DVD R/W. Keyboard, Card Reader, LED monitor 23", Graphic card 1 GB, Pinnacle studio plus software.	
11	Laptop	Intel core I-5, 4 GB DDR 3, 640/500 GB HDD, Win 7 Professional,	
12	Split Air conditioner	Capacity 2 ton, three star	
13	UPS Battery	12 Volt 100 AMP Dry battery	

Sr. No.	Name of the items	Details of specifications	Cost
14	Real PCR	<p>Ultra fast Realtime PCR with Ramp rate of 6°C., Simulated tube control for precise control of the sample temperature., Impulse PCR features to speed up reaction. Device driven hot start facility with fast ramp in the initial step which helps in faster PCR protocol and no side products ,Standard 96 well format.</p> <p>Individual tubes and plates can be used. Standard format useful for using standard consumables and sample preparation instruments, TSP (Temperature Safety Protection) technology to ensure absolute sample integrity and no possibility of evaporation, Temperature gradient feature to optimize SYBR assays., Gradient optimization at all 3 steps of PCR should be possible, Triple Circuit Technology for precise control of temperature Gradient, Excitation source is an array of 96 Blue LED. Detector as Channel Photomultiplier Tubes (CPM) with minimum magnetic interference and dark current., Option to switch off detection system to use the system as regular PCR, Should be a Chemically open system:</p> <p>supports SYBR Green dye, Taqman, Molecular Beacons, scorpions, Detection of most common fluorescent dyes [SYBR, FAM, VIC, JOE, TET, HEX, TAMRA , ROX], 4 colour Multiplexing possible, with or without ROX., Should Supports reaction volumes of 10 -100µl, Sensitivity _ 50 fM fluorescein, Melting curve analysis for SYBR Green Assays, Online monitoring , Fully licensed for diagnostic real-time PCR, HRM (High Resolution Melt) : Conventional DNA Melt/Anneal analysis and auto-call genotyping capability is standard on all models. New HRM capability is optional and</p> <p>comprises a dedicated high-performance optical subsystem, additional hardware and specific HRM analysis software. (fully integrated).</p> <p>OTV (optical temperature verification) Kit For automated thermal performance verification and calibration of Rotor-Gene systems to ensure thermal accuracy and rotor thermal and optical performance Includes a Disc pre-loaded with sets of thermochromic liquid crystals (TLCs), fluorescent inserts and a CD with service note and experiment profiles Centrifugal Format</p>	
15	National Solar Radiation Recorder (Pyranometer)	<p>Technical specification for Data logger : Display : 16 characters x 2 Lines LCD Sensor inputs : Solar Radiation Real Time Clock : RTC with programmeable Alarm Data Storage : 512 K EEPROM Power supply : 12 V / 14 AMP SMF Battery Battery charging : Solar Panel or Battery Charger Sampling Rate : Programmeable from 1 min to 24 hours Operation Temperature : -20 to 55°C Operating Humidity : 0 to 100 non condensing Data retrieval : On Computer & Data Shuttle</p> <p>Technical Specification for Sensor : Calibration : 0.25 Mv per Wm² Range : 0 to 1000 Wm² Operating Temperature : -40 to 55°C Sensor Housing : Weatherproof anodized aluminium case with acrylic diffuser and stainless steel hardware. Size : 24 mm dia, 25 mm tall Albedo measurement : Provided as per requirement</p>	

Sr. No.	Name of the items	Details of specifications	Cost
16	Flame photometer	Sensitivity range Na, Li & K (1-100 ppm), Calcium (15-100 ppm), Boron (50-1000ppm), accuracy 2%. Flame system LPG & Oil free dry air	
17	Digital pH meter	Range 0 to 14, Resolution 0.001 accuracy + -0.002 with micro processor base	
18	Ec meter	Digital Electricity conductivity meter with cell.	
19	Analytical balance	Weighing capacity : 200 gm, Readability : 0.001 g, Readability : <0.001 g, Response time : 1/3 sec avg, Linearity : < 0.002g, Pan size : 115 mm Dia Calibration : Built in motorized calibration	
20	U.V. visible spectrophotometer	<ul style="list-style-type: none"> ▪ UV/V is spectral range 220 nm to 830 nm with 1 nm increment. ▪ Xeon flash lamp with very long service life. ▪ Preprogrammed methods for a quick start ▪ Guided software process to minimize errors ▪ Operation directly on the device, no PC necessary ▪ Large, easy to read 5.7 inch color display ▪ Storage of measuring results (>1,000) right in the device ▪ Integrated data processing option for specific methods ▪ Optical system : Absorption single-beam spectral photometer with reference beam ▪ Curvette shaft; 12.5 mm x 12.5 mm ▪ Light source Xenon flash lamp with height of 8.5 mm ▪ Spectral bandwidth ≤ 4 nm ▪ Photometric measuring range; 0 A to 3.0 A at 260 nm ▪ Random error of the photometer ≤ 0.002 at A = 0 and ≤ 0.005 (0.5%) at A=1 ▪ Systematic error of the photometer $\pm 1\%$ at A=1 ▪ Measuring value memory and calibration memory : Memory for > 1000 results with all data from the result and standard evaluation, sample number, sample name, date and used parameter set of the method program (The number of stored results depends on the number of stored methods). ▪ Methods : Preprogrammed and freely programmable methods for all measurement and evaluation procedures. ▪ Absorbance measurements for one or more wavelengths, scans ▪ Nucleic acids and proteins OD600, dye methods (simultaneous measurement of biomolecule and dye labeling) ▪ Evaluation methods via factor, standard and standard series. Two wavelength procedure with subtraction and division evaluation. 	
21	Bomb calorimeter digital with safety device	Bomb capacity – 300 ml Oxygen cylinder – 10 lit capacity Complete pipe fitting key and regulator	
22	Kjeldahli distillation and digestion combined unit MGC with unit of 6 test	Mantle type heating system Supplied with complete condenser rack, fume UVC and pair of hangers Supplied with glass part To work on 220/230 AC	

tubes	supply	
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Sr. No.	Name of the items	Details of specifications	Cost
23	Homoginizer (Hobart mixer)	¼ HP heavy duty motar having speed regulator with performed stainless dish. Unit is provided with arrangement of vertical and horizontal direction.	
24	Ethylene Analyser	Range 0-100 ppm Ethylene Resolution : 0.1 ppm Temp. range 0-35 deg c. Pump flow : Typically 0.7 l/min	
25	Hydraulic Juice Press	Hand operated with SS. Tray a wooden crates, a thick mild steel base tray	
26	Hunter lab – Colour Flex EZ	Measurement Principle: Port up or Port forward dual-beam spectrophotometer Geometry: Annular 45° illumination and 0° viewing Spectrophotometer: Sealed optics; 256-element diode array; high resolution concave holographic grating Port Diameter/View Diameter: 31.8 mm (1.25 in) / 25.4 mm (1.00 in) Specular Component: Excluded Spectral Range: 400 nm - 700 nm Spectral Resolution: < 3 nm Effective Bandwidth: < 12 nm equivalent triangular Reporting Interval: 10 nm Photometric Range: 0 to 150% Light Source: Pulsed Xenon Lamp Number of Flashes per Measurement: 1 flash Lamp Life: > 1 million flashes Measurement Time: < 1 second from button push to measurement 2 seconds from button push to data display Minimum Interval Between Measurements: 3 seconds Inter-Instrument Agreement: $\Delta E^* < 0.15$ CIE L*a*b* (Avg) on BCRA II Tile Set $\Delta E^* < 0.25$ CIE L*a*b* (Max) on BCRA II Tile Set Colorimetric Repeatability: $\Delta E^* < 0.05$ CIE L*a*b* on White Tile (20 Readings) Data Views: Color Data, Color Difference Data, Tristimulus Color Plot, Spectral Data, Spectral Difference Data, Spectral Plot, Spectral Difference Plot USB Flash Drive Features: Backup of Setups and Data, Setup Transfer to Multiple Units, Data Export to Excel Other Features: Pass/Fail, Average Multiple Readings, Search for Closest Standard Illuminants: A, C, D50, D55, D65, D75, F2, F7, F11 Observers: 2° and 10° Color Scales: CIE L*a*b*, Hunter Lab, CIE L*C*h, CIE Yxy, CIE XYZ Color Difference Scales: $\Delta L^*a^*b^*$, ΔLab , ΔL^*C^*H , ΔL^*C^*h , ΔYxy , ΔXYZ Color Difference Indices: ΔE^* , ΔE , ΔC^* , ΔC and ΔE CMC Dimensions: Height: 16 cm (6.3 in) Width: 13 cm (5.1 in) Depth: 36 cm (14.2 in) Weight: 4.5 kg (9.9 lb) Display: 7.1 cm x 5.4 cm (2.8 in x 2.1 in) backlit color LCD Interface: 3 USB 2.0 ports Power: 100 to 240 VAC 47 to 63 Hz Operating Environment: 10° to 40°C (50° to 104° F), 10% to 90% RH, noncondensing Storage Environment: -20° to 65°C (-5° to o 150° F), 10% to 90% RH, noncondensing Standard Accessories: Users Guide, Calibrated Instrument White Tile, Certificate of Traceability, Green Diagnostic Tile, Black Glass, Universal AC Adaptor, Computer Interface Cable, PC Utilities Disk and Interface Drivers.	

Sr. No.	Name of the items	Details of specifications	Cost
27	Rapid Nitrogen/ Protein analyzer unit	<p>A) Digestion block : Kjeldhal model 100 ml tube, Block made up of Al with holes for digestion tubes, Energy efficient heating and insulation to retain heat with block, insert rack, exhaust manifold and water jet pump two tire console, 12 tubes, temp 750 °C Power : 1500 watts</p> <p>B) Distillation : Automatic addition of H₃BO₃, H₂O, NaOH, Programmable reaction, distillation time, automatic steam generator, Automatic suction of sample waste, Automatic titration etc.</p>	
28	Total organic carbon analyzer	Oxidation process – Parented photocataly, oxidation using titanium dioxide, Detection Non dispersive Infra red detector, Manual injector, analysis range 0.05-5000 ppm, Control ANATOC reactive software, Voltage 100 to 250 VAC Dimensions 285 (W) x 350 mm (D) x 410 (H)	
29	Body Stat 1500 MDD	Dual frequency (adults and children)	
30	Pressure chamber instrument	Maximum operating pressure : 70 bar Chamber construction. Stainless steel Read out : Bourdon tube gauge size (LxWxH) 13x11x10 inches -33 x 28 x 24 centimeter Weight : 21 lbs – 9.5 kg Gauge : 6” diameter gauge ½ of 1% accuracy, 70 bar (7 Mpa) range.	
31	TDR Soil Moisture Meter	An internal data logger and RS-232 port allow for use with a DGPS for geo-referenced soil moisture measurements. Includes software and PC cable	
32	Seed Germinator	<p>Int. Dimension (mm) – 500x410x840, Ext. Dimension on (mm) – 620x67x0x1380’ Temp. Range – 10-60°C Humidity range – 40-95% Electrical – 220-240 Volt, 50HZ Single phase</p>	
33	Automatic refractometer	Touch screen with LCD facility	
34	Cabinet Tray Dryer	Size 600x600x300 mm 18 tray	
35	Deep Freezer	Cap. 400l with digital indicator cum controller double walled construction and audio-visual alarm temperature range -18°C	
36	Peristaltic pump	<p>With programmable timer, variable speed, auto/manual switch, ON/OFF time (with min/sec OR hr/min), Body made of S.S.</p> <ul style="list-style-type: none"> ▪ Pump Head : Made of engineering plastic (Supec) ▪ Head Type : Spring loaded track – dual roller ▪ Motor : Stepper motor ▪ Torque of the Motor : 10 kg/cm ▪ RPM : 1 to 200 ▪ Tube size : Min 2 mm to Max 8mm ID (1.5 mm wall thickness) ▪ Flow Rates : 0.8 to 1800 ml/min (Depending upon the tube sizes) ▪ Direction : Bi-directional (Clockwise & anti clockwise) ▪ Input power : 230 V AC/50 Hz ▪ Operation : 100% duty cycle <p>Discharge Pressure : 2 bar at maximum rpm. Instant start / stop and reverse facility, No. contamination of the fluid or pump, No valves/seals / glands to leak or fail, Self priming and can safely run dry, Positive displacement, no back flow, ideal for sheer sensitive, viscous boiling agar based media, aggressive & corrosive liquids, (With Standard Accessories)</p>	

Sr. No.	Name of the items	Details of specifications	Cost
37	Server	<ol style="list-style-type: none"> 1. Server, two processor Intel xeon quad core, configuration : tower, RAM – 8 GB expandable upto 32 GB 2. Latest version of Red hat Linux server OS 3. Windows Part Number – P73-04966 Win SvrStd 2008R2SNGL OLP NL Acadmc (Windows Server standard) 4. WinSvrCAL 2008 SNGL OLP NL. Acadmc DvcCAL (Windows Server CAL) 	
38	Desktop operating system	<p>Part No. GIC-00378 WinStrtr7SNGL OLP NL Acadmc Legalization GetGenuine (Win Starter)</p> <p>Part No. FQC-02312 WinPro7SNGL Upgrd OLP NL Acadmc (Win Pro)</p>	
39	MS Office	Part No. 79P-03527 Office ProlPlus 2010 SNGL OLP NL Acadmc (Office Professional Plus)	
40	Thin client	<ol style="list-style-type: none"> 1) Latest window based with brower (IE8) support, open office preloaded, 1 GB RAM, 4GB flash 2) Latest Linux based with brower support, open office preloaded, 1GB RAM, 4GB flash 3) 3 years on site warrenty 4) Buy Back for old thin client with VDU 	
41	Orbital shaker	<p>Laboratory type</p> <p>Mode of heating – installed with forced air circulation, Digital temp. controller electrical Temp. range – 5 C above ambient (room temp) to 60 C Voltage – 230 Volts AC</p>	
42	Turbidity meter	<p>Measurement cycle – approx. 9 seconds LCD display Optics – temperature compensated LED and photo sensor amplifier in water proof sample chamber, infrared light Keypad-3 key polycarbonate membrane, splash proof Power – 9 V power pack, Auto-Off, Ranges – 0.1 – 2000 NTU Dimensions – 190x110x55mm (LxBxH) Approx conditions – temperature 0-40°C Rel humidity 30-90°C</p>	
43	Centrifuge (Low temperature)	<p>Maximum speed 15000 rpm Temperature setting – 20 to 40°C</p> <p>Angle rotary (upto 45 degree with different adaptor size (0.2-100 mL)</p>	
44	Nano photometer	<p>Wavelength range-200-830 nm with 1 nm increment. Wavelength scan range 200-830 nm,, photometric range 0-3.0A at 260 nm, spectral band width ≤ 4 nm, light source Xenon flash lamp.</p>	
45	LCD Projector	LCD DLP projector with 7'x5' motorized rolling screen (Detailed specification as per Govt. of Mah. Rc)	
46	Xerox machine	Digital copier with printer with network print connectivity and colour scanning minimum speed 20 ppm 64 MB RAM, Monocomponent, original size A3, paper capacity 250, 80 sheet bypass zoom 25% - 400%, display self guided backlit 4 lining with stabilizer (2KVA) and trolley.	

Sr. No.	Name of the items	Details of specifications	Cost
47	Atomic Absorption spectrometer	<p>AAS with true double beam echelle optics combined with solid state detector, fully atomized gas controls and integrated safety checks, new touch screen interface with color LCD display, leveraging the power of Microsoft windows, with 8 calibration standards, built in EDL power supply, quick lock design automatically connects and disconnects gas lines, the entire optical digit is housed in a shield to protect from corrosive lab environments and also can be purged for optimum performance in a extremely dirty environments. All parameters includes burner, flame ignition, gas pressure, flow rates, 5 and 10 cm burner head auto alignment turret with self optimization with self optimization and memory</p> <p>Accessories : Nitrous oxide cyclinder with heater and regulator Acetylene gas cylinder with regulator Hallow cathode lamps i) Fe-Mn-Cu-Zn ii) Pb, iii) B, Vent hood assembly and Air compressor, Filter 5KVA voltage stabilizer installation and training.</p>	
48	Seed counter	<ul style="list-style-type: none"> ▪ For fast and accurate counting of seeds. ▪ 16x2 line alphanumeric LCD display ▪ Micro controller based ▪ Computer / printer attachment ▪ Membrane keyboard ▪ Count maximum upto 999999 seeds in lot ▪ Range of seed size 0.3 to 15 mm ▪ Separate pans for seed size below 1 mm ▪ Knob provided for removing pan easily. ▪ Adjustable knob provided to ensure that the seed moves in a single row ▪ Slow start and slow stop provided for better accuracy ▪ Soft touch speed control, no knob required ▪ Programmable seed size and speed, memory for 99 commodities with seed name 	
49	LED / Plazma Television set	140 cm size 3 D 1920 x 1080 pixels : with SVGA, HDMI interface Wifi, USB support (mention rates separately for 1) LED 2) Plazma 3) installation with wall mounted stand)	
50	Interactive white board	Large screen for high impact lesson, suppressed light reflection for easier viewing, highly durable surface, built in stereo fi\or effective lesson, optional wireless kit, optional plug and go install free kit, easy to wire USB bus powered model	
51	Automatic scrubber driers / Multi clean machine for intensive wet cleaning of hard floors.	Compact, maneuverable easy to operate, Battery or main operated working width 350 mm or 430 mm with area performance up to 1.700m ² /hour.	
52	Nitrogen generator	5 HP motor driven	
53	Air compressor	5 HP motor driven	