

CORRIGENDUM

With reference to MES College, Marampally tender notice vide no MES/01-22/2015-16 dated 14.11.2015 published in news/website, the last date of selling the tenders for the purchase of instruments mentioned above may be read as 29.12.2015 upto 3.30 pm. Please note that the specifications of some instruments are changed and tenders can be submitted irrespective of the company brands. Last date of receiving application for issuing tender 29.12.2015, 3.30 pm.

Last date of submission 29.12.2015, 4.30 pm

Opening date Sl. No. 1-6 05.01.2016, 2 pm

Sl. No. 7-12 06.01.2016, 2 pm

Sl. No. 13-22 07.01.2016, 2 pm

The tenders who have already submitted is requested to change their offer within the extended period if they desire. The corrigendum is available in college website www.mesmarampally.org.

NEWS

Sealed tenders are invited for the supply and installation of laboratory equipments, computers, network equipments, UPS and equipments to setup an e-learning room under the FIST scheme of DST (Govt. of India). Include Technical/Consumer Bid and Price Bid in separate sealed covers in the Tender. Technical specifications, past installations with contact details, Manufacturers Authorization Letters, a copy of price bid without price, etc. can be included in the Technical/Consumer Bid.

Tender notice and tender form can be downloaded from the website. The cost of tender form may be remitted along with submission of tender in the office.

MES College Marampally

Phone: 0484 2677104

www.mesmarampally.org

Tender Notice

Sealed tenders are invited for the supply and installation of laboratory equipments, computers, network equipments, UPS and equipments to setup an e-learning room under the FIST scheme of DST (Govt. of India). Separate tenders are invited for the following items with the price of tender form and EMD shown against them.

Sl. No.	Tender No	Item	Cost of Tender Form (Rs.)	EMD (Rs.)
1	MES01/2015-16	Personal Computers- (i) Dell Optiplex 3020 MT – 46 Nos (ii) Acer Veriton IC6146 Desktop – 31 Nos	4710	30160
2	MES/02/2015-16	HP Proliant ML10 Server Part No: 757643-375	400	1500
3	MES/03/2015-16	IBMX3100 M4 Server Part No: 2582IKA	400	1500
4	MES/04/2015-16	UPS 6KVA	400	1500
5	MES/05/2015-16	Networking (Including installation charges)	400	1500
6	MES/06/2015-16	Equipments for e-learning room (Except computer)	880	4380
7	MES/07/2015-16	Power Supplies, Meters, Oscillators and Oscilloscope	1960	9395
8	MES/08/2015-16	Microcontroller & Microprocessor Kits	400	1500
9	MES/09/2015-16	Interferometric Instruments	400	1500
10	MES/10/2015-16	Nuclear Physics Instruments	400	1500
11	MES/11/2015-16	Optics/Lasers/Acoustic- Optics/Fiber Optics/Diffraction Apparatus	830	3990
12	MES/12/2015-16	Electricity & Magnetic Measurements Apparatus	1490	7130
13	MES/13/2015-16	UV-VIS Spectrophotometer	600	2850
14	MES/14/2015-16	HPLC—SHIMADZU, Prominence, Binary Gradient. LC 20 AD, Solvent Delivery Unit—1 Nos.	1880	12660
15	MES/15/2015-16	Electronic Weighing Balance—SHIMADZU, 0.0001g specification—1 Nos.	400	1500

16	MES/16/2015-16	PCR - BIORAD, Gradient Upgradable to RT-PCR, Touch Thermal Cycler with fast reaction mode, Power code. —1 Nos.	1400	6749
17	MES/17/2015-16	Gel Documentation System-BIO RAD, UV and White sample tray suitable for PC—1 Nos.	1190	5700
18	MES/18/2015-16	Environmental Shaker —1 Nos.	400	1750
19	MES/19/2015-16	Cold Room- 6.79' x 10. 54' x 8.16 feet external, split type Air cooled, R 22 gas—1 Nos.	530	2535
20	MES/20/2015-16	BOD incubator: Safety thermostat, Digital temperature indicator cum controller, REMI—1 Nos.	400	1500
21	MES/21/2015-16	Microscope-Monocular/ Binocular LED—10 Nos.	450	2120
22	MES/22/2015-16	Trinocular microscope with camera and analysis software—1 Nos.	400	1500

Due date and time for receipt of tender	29.12.2015, 4.30 pm (revised date)
Date and time for opening the tender	SI N0 1-6 05.01.2016, 2 pm (revised date) SI N0 7-12 06.01.2016, 2 pm (revised date) SI N0 13-22 07.01.2016, 2 pm (revised date)
Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent	Principal, M.E.S College, Marampally, Aluva, Ernakulam, Kerala - 683107

DD for EMD in favour of Principal – FIST Programme 2014, payable at
Bank of India, Marampally.

(Tender Cost - as per Govt. rules. The bidders are required to furnish EMD along with their bids. The amount of EMD shall be one percent (rounded to the nearest rupees) of the total cost of the articles tendered for; subject to a minimum of 1,500/-.)

Further Details:

www.mesmarampally.org e mail : mescollegemarampally@gmail.com

0484 2677104, 2677109, 9446078587

Terms and Conditions

1. The prices quoted should include taxes, transportation and installation charges.
2. The supplier has the responsibility to deliver and install the equipment at our institution.
3. The institution shall make arrangements for customs duty exemption certificate for equipments to be imported and the supplier on their part shall make arrangements for clearance at the airport and transportation to the institution.
4. Incomplete and defective tenders will be rejected.
5. The general terms and conditions of the tender will be the same as that specified in Kerala Store Purchase manual.
6. The suppliers participating in the tender have to produce bid agreement in stamped paper (Proforma given as Annexure)

Detailed specifications are attached:

Marampally

14-11-2015

Principal

Detailed Specifications for the items

Tender No. MES/01/2015-16 - Personal Computers

Dell Optiplex 3020 MT

- Intel core i5-4590 4th generation processor(3.50 GHz)
- 4 GB DDR3 1600 MHz Ram
- 500 GB 7200 RPM SATA HDD
- DVD Writer
- Internal Intel HD Integrated Graphics 4400
- MT based chassis
- VGA Display port
- USB Ports: Front USB - 2 × USB 2.0, 4 × USB 2.0, 4 × USB 2.0 port(1)
- Tower Cabinet with SMPS
- Dell wired keyboard & optical mouse
- Dell 18.5'' LED Monitor
- 3 years of onsite warranty
- DOS

Estimated Amount: Rs. 19,50,000

Acer Veriton IC6146 Desktop

- Intel Core i5-4460S 4th Generation Processor (3.1GHz, 3 MB)
- Intel H81 chipset
- 4 GB DDR3 1600 MHz RAM
- 500 GB 7200RPM SATA HDD
- DVD Writer

- Acer 18.5'' LED Monitor
- MT Based Chassis
- USB Keyboard & PS2 Optical mouse
- 3 years onsite warranty
- DOS

Estimated Amount: Rs. 11,00,000

Tender No. MES/02/2015-16 - HP Proliant ML10 Server, Part No: 757643-375

- Intel Xeon E3- 1220v2 (3.1GHz/4-core/8MB/69W)
- 8 GB PC3-12800E(DDR3-1600)-4 DiMMs Slots
- HP 1 TB 3.5'' Non hot plug LEF SATA
- HP Smart Array B110i SATA RAID Controller
- 1-port Ethernet Server Adapter(X1)
- 1 x 300 Watts Non- Hot plug Supply
- Expansion Slots: PCIe G2 Full length, full height (x4)
- DVD Writer
- 3-3-3 NBD Support

Estimated Amount: Rs. 60,000

Tender No. MES/03/2015-16 - IBMX3100 M4 Server, Part No: 2582IKA

- Intel Xeon E 1220v2 Quad Core 8 MB Cache 3.1 GHZ
- 4 GB DDR3 ECC memory, upto 1600 MHz 4 DIMMs2
- 500 GB SATA 3.5'' Simple Swap HDD
- RAID 01 inbuilt (SR C100)
- One fixed 350 W AC or 300 W AC 80 plus Bronze power supply
- Expansion slots: Slot 1- PCIe 3.0 x8, full-height,half-length (PCIe 2.0 in models with processors, Slot 2 – PCIe 3.0 X16(x8 wired), full- height, half- length(PCIe 2.0 in models with processors announced September 2011) Slot3- PCIe 2.0x4, full-height, half -length, Slot4-PCIe 2.0x1, full-height, half- length
- 3 years onsite Hardware warranty

Estimated Amount: Rs. 53,000

Tender No. MES/04/2015-16 - UPS 6KVA

- Capacity 6 KVA
- Backup time: 30 Minutes

- Pure Sine Wave

Estimated Amount: Rs. 1,25,000

Tender No. MES/05/2015-16 - Networking (Including installation charges)

- AMP Cat 64 pair UTP cable (Qty subject to actual usage)
- AMP NetConnect Cat 6 UTP Jack with strain relief and bend limiting boot
- AMP Netconnect British type Single port Shuttered face plate
- AMP Netconnect British type Dual port shuttered face plate
- Surface mount box
- AMP netconnect Cat 6 SL series Patch cord 7 ft
- AMP RJ 45 Jack
- D-link DGS1024 24 port 10/100/1000 Mbps Switch
- APW Presidents 9U wall mount Rack and accessories

Installation charges

- CAT 6 Cable laying with PVC conduits/suitable accessories
- Fixing of Mount Box and face plate
- Rack fixing charges

Estimated Amount: Rs. 45,000

Tender No. MES/06/2015-16 - Equipments for e-learning room

- Logitech C920 USB Camera with 1080 P Wide Screen, Video Calling 20 Step auto focus, Premium auto light Correction 6 Feet Cable Length
- Epson EB- 1945W Projector with 4200 im, native resolution with WXGA, minimum of 2500 hours lamp life, with HDMI and VGA in
- Motorised Projection Screen (133 " Diagonal 16:10 Aspect Ratio)
- Clearone Coverage SR1212 12channel Digital Signal Processor. HD Conference
- EV R300-HD-A UHF Handheld wireless microphone
- ARC 40 Studio Master Wide dispersion speakers
- DJA 800 Studio Master 2 channel power amplifier, 2 x250 W
- Nuteric and beldon Connectors and cables

Estimated Amount: Rs. 4, 38,000

Tender No. MES/07/2015-16 - Power Supplies, Meters, Oscillators and Oscilloscope

Cathode Ray Oscilloscope – 25 Nos

- 30 MHz Dual Trace Analog Oscilloscope

- Make : GW INSTRON
- Model : GOS 630FC
- 1mV/div high vertical sensitivity
- 5 digit Real Time Frequency Counter
- With switchable 10:1/1:1 passive probe

DC Variable Power Supply – 19 Nos

- DC output: 0-30V
- Dual output power supply
- Digital displays for voltage and current in each track
- Make : Scientific Tech
- Model : STVD 3002

DC Fixed Power Supply – 19 Nos

- Dual Fixed $\pm 15V/2A$ supply
- Make: Scientific Tech
- Model : STFD 1502

Universal Digital IC Tester – 2 Nos

- Make: Scientific Tech
- 16*2 LCD
- Model: STDG350
- Auto search mode to find unknown ICs

Audio Frequency Oscillator – 30 Nos

- Sine, Square, Triangle, Pulse and TTL
- Frequency range: 0.1 Hz to 2 MHz
- Make: Scientific Tech
- Model : FG2000

LCR Meter – 1 No

- AC/Dc current, Resistance, Capacitance, Inductance, Frequency, Temperature, diode, Transistor and Continuity Test
- Model: Metravi 451

DC Power Supplies

DC Fixed Power Supply – 4 Nos

- Voltage Range: 5V
- Current: 1 Amp

DC Fixed Power Supply – 4 Nos

- Voltage Range: 12V
- Current: 1 Amp

DC Variable Power Supply – 4 Nos

- Voltage Range: 0-30 Volts
- Current Capacity: 0-2 Amps
- With digital display

Estimated Amount: Rs. 9,39,500

Tender No. MES/08/2015-16 for Microcontroller & Microprocessor Kits

Microcontroller Kit – 10 Nos

- 8051 trainer kit with 16*2 LCD display
- IBM key board
- Make: Scientific Tech
- Model: STS8051 LCS
- Power supply: +5V/1 A & +/- 12V 250 mA

Microprocessor Kit – 10 Nos

- Make: Scientific Tech
- Microprocessor Training Kit
- 16*2 LCD display
- Power supply: +5V/1 A & +/- 12V 250 mA
- Model: STS 8085

Estimated Amount: Rs. 93,500

Tender No. MES/09/2015-16 - Interferometric Equipments

1. Michelson Interferometer-Standard model (1 No)

Experiment Examples:

- Determination of wavelength of laser beam.
- To find refractive index and thickness of transparent material.

Should satisfy the following requirements.

- Optical Breadboard with Support
- Kinematic Laser Mount
- Beam Splitter Mount
- Mirror Mount with Translation
- Mirror Mount with Precision Translation
- Rotation Stage
- Screen with Mount
- Pressure Cell
- Mirror with Cell
- Beam Splitter
- Glass Slide
- Diode Laser with Power supply (Red)
- Diode Laser with Power supply (Green)
- Accessories

2. Cornu's Interference Appartus (1 No)

Experiment Examples:

- Study of the elastic constants of glass by Cornu's interference methods.

a. Hyperbolic fringes

b. Elliptical fringes

Should satisfy following requirements

- Travelling Microscope with Rigid Base
- Knife Edges with Rigid Base
- LED Mount with Rigid Base
- Weight Hanger Clamp
- Weight Hangers with Weights
- Plano Convex Lens
- Plano Convex Lens
- Optical Flat
- Beam Splitter Plate
- Sodium vapor lamp with Power Supply
- LED's with Power supply
- Test Samples

- Accessories

Estimated Amount: Rs. 1,30,000

Tender No. MES/10/2015-16 Nuclear Physics Instruments

1. GM Counter- beta decay (1 No)

Experiment Examples:

- ▶ To determine the efficiency of GM Counter
- ▶ To verify the inverse square relationship between the distance and intensity of radiation
- ▶ To find the absorption coefficient of beta rays in materials

Should have the following requirements

- Set up for Counter
- GM Tube and stand
- Radioactive source
- Shield
- Accessories

Estimated Amount: Rs. 1,20,000

Tender No. MES/11/2015-16 - OPTICS/LASERS/ACOUSTIC-OPTIC/FIBER OPTICS/DIFFRACTION Apparatus

1. Malus law apparatus (1Nos)

Experiment Examples:

- Observation of the polarization properties of light and to verify Malus law.

Should satisfy following requirements

- Optical Rail
- Kinematic Laser Mount
- Polarizer Rotator with Mount
- Detector Mount
- Diode Laser with Power supply (Red)
- Detector Output Measurement Unit
- Accessories

2. Brewster's angle measurement apparatus (1Nos)

Experiment Examples:

- To measure and plot the graph-reflectivity versus angle of incidence.

- To find the Brewster's angle (also known as the polarization angle) of glass plate and determine its refractive index.

Should satisfy following requirements

- Goniometer with Detector Mount
- Optical Rail
- Kinematic Laser Mount
- Polarizer Rotator with Mount
- Glass Slide
- Diode Laser with Power supply (Red)
- Detector Output Measurement Unit
- Accessories

3. He-Ne laser Unit –Beam profile set up. (2 Nos)

Experiment Examples:

- To study the beam profile of laser

4. Acousto-optic effect measuring apparatus-Ultrasonic Diffraction (1Nos)

Experiment Examples:

- To find the elastic property of liquid.
- To find the velocity of ultrasonic wave in liquids.
- To find the bulk modulus of the given liquid.
- To find the compressibility of the liquid

Should satisfy following requirements

- Optical Rail
- Kinematic Laser Mount
- Glass tank Mount with Crystal Holder
- Detector Mount with X- Translation
- Glass Tank
- Piezo Electric Crystals
- RF Oscillator
- Diode Laser with Power supply (Red)
- Detector Output Measurement Unit
- Accessories

5. Optical fiber Characterization Apparatus (Breadboard Based) (1Nos).

Experiment Examples:

- Numerical Aperture Measurement of single/multi mode fiber
- Measurement of Bending loss in Multi-Mode fiber
- Calculation of normalized frequency or V-number of single mode fiber.
- Calculation of mode field diameter of single mode fiber.

Should satisfy following requirements

- Optical Breadboard with Support
- Kinematic Laser Mount
- Detector Mount
- XYZ Translation stage
- Laser Fiber Coupler
- Fiber Holder with Angular Tilt
- Fiber Chuck Holder
- PMMA Mount
- PMMA Rod
- Bending Loss Apparatus
- Fiber Chuck
- Single Mode Optical Fiber
- Multi Mode Optical Fiber
- Diode Laser with Power supply (Red)
- Detector Output Measurement Unit
- Accessories

6. Diode laser(4 Nos)

Experiment Examples:

- To determine the track width of a CD.
- To study the beam profile of laser.

7. Detector Based Apparatus for Diffraction Experiments (1Nos)

Experiment Examples:

- Diffraction of light by single/double slit
- Diffraction of light by single/cross wire
- Diffraction of light by transmission grating
- Diffraction of light by circular aperture (Pinhole)

Should satisfy following requirements

- Optical Rail
- Kinematic Laser Mount
- Cell Mount
- Diffraction Cells
- Detector Mount with X- Translation
- Diode Laser with Power supply (Red)
- Detector Output Measurement Unit
- Accessories

Estimated Amount: Rs. 4, 00,000

Tender No. MES/12/2015-16 - ELECTRICITY AND MAGNETIC Measurements Apparatus

1. Dielectric constant measurement apparatus(4 Nos)

Experiment Examples:

- Di-electric constant in solids-Preferably Barium Titanate
- Determine the Curie Temperature.

2. Stefan's constant measurement apparatus(2 Nos)

Experiment Examples:

- Determine Stefan's constant of radiation law.
- Verification of Stefan's law.

Specifications

▶ Set up

- Power supply 1V- 6V variable
- Volt meter 0-20V DC, Preferably LED display
- Current meter 0 – 2A DC, Preferably LED display

▶ Digital temperature indicator

- LED display
- Resolution 0.10C
- Range : 200C – 2000C

▶ Radiator

- Preferably copper black body fitted with heater and temperature sensor

3. Hall Effect Apparatus (1Nos)

Experiment Examples:

▶ Measurement of Hall voltage as a function of

- a. Magnetic flux density (B)
- b. Sample temperature (T)
- c. Sample current (I)

for n and p-doped germanium/silicon crystals.

▶ Determination of the carrier concentration and mobility of charge carriers.

▶ Determination of Hall coefficient of semiconductor crystals.

Should satisfy the following requirements.

- Hall Effect Control Unit
- Sample control Holder with Rigid Base
- Gauss Probe Holder with Mount
- Digital Gauss Meter
- Hall Effect Catridge
- Electromagnet
- Constant Current Power Supply

4. **Four Probe Method (2 Nos)**

Experiment Examples:

- ▶ Determination of resistivity of a given semiconducting material

Specifications

- Four probe arrangement
- Oven (upto 2000 Celsius)
- Sample (Ge- n type)
- Thermometer (0-1500 Celsius)
- Four Probe set up

- ▶ Multirange digital millivoltmeter

Range : (0-200 mV) & (0-2V)

Accuracy : $\pm 0.1\%$ of reading ± 1 digit

Display : 7 segment LED display

- ▶ Constant current generator

Open circuit : 18V

Current range : 0-20mA

Load regulation : $\pm 0.1\%$ for no load to full load

Line regulation : $\pm 0.1\%$ for 10% changes

- ▶ Oven power supply

5. **Characteristic of thermistor. (1Nos)**

Experiment Examples:

- ▶ Determination of relevant parameters

6. **Si-diode temperature sensor. (1Nos)**

Experiment Examples:

- ▶ Determination of relevant parameters

7. **Ge-diode -bandgag measurement (1Nos)**

Experiment Examples:

- ▶ Determination of relevant parameters

8. e/m ratio of the electron-Thomson's method (1Nos)

Experiment Examples:

- ▶ To measure the Charge to Mass ratio of Electron (e/m)
- ▶ For demonstration of electron beam deflection using the deflection plates.

Specifications

Accelerating voltage	:	0 - 250 V dc
Coil current	:	0.5 - 2.5A
Deflection plate voltage:		50 - 250V
Display	:	Preferably LCD display
Power input	:	230V AC 50Hz .

9. Photo electric effect measurement apparatus. (1Nos)

Experiment Examples:

- ▶ To determine the value of Planck's constant.
- ▶ Determination of work function of a material

Should satisfy the following requirements

- Rail Based Platform
- Filter Wheel with Interference Filters
- Tungsten Halogen Lamp with Mount
- Photosensitive Device with Mount
- Photo Electric Effect Control Unit
- Accessories

10. Dipole-moment measurement apparatus(1Nos)

Experiment Examples:

- ▶ To find dipole moment of an organic molecule-preferably acetone

11. Franck Hertz effect apparatus (2 Nos)

Experiment Examples:

- ▶ To measure the excitation potential of Argon using the Franck- Hertz method.

Specifications

- Franck-Hertz Tube : Argon Filled Tetrode
 - Power Supply Unit
- VG1K : 1.20 - 5.00 V (continuously variable)
- VG2K : 0.00 - 95.00 V (continuously variable)
- VG2A : 1.30 - 14.50 V (continuously variable)
- Filament Voltage : 2.8 - 3.40 V (continuously variable)
 - Saw tooth waveform for CRO display
 - Scanning Voltage : 0 - 90 V
 - Scanning Frequency : 18 ± 2 Hz
 - Input Power : 230 V / 50 Hz

12. Electron Spin resonance spectrometer. (1Nos)

Experiment Examples:

- ▶ Determine the g factor.

13. Electrical and Thermal conductivity of copper-Set up (1Nos)

Experiment Examples:

- ▶ Determine the electrical and thermal conductivity of copper
- ▶ To find the Lorentz number.

14. B-H Curve Set-Up (1Nos).

Experiment Examples:

- ▶ To study the Hysterisis

Estimated Amount: Rs. 7,13,000

Tender No. MES/13/2015-16 – UV-VIS Spectrophotometer

Pc BASED High Resolution UV-Visible Double beam Spectrophotometer capable of measuring transmittance of liquid and diffuse reflectance solids samples.

- Stray light-Max 0.005%.
- Wavelength range 180- to near IR upto 1400nm.
- Wavelength accuracy-- \pm 1nm.
- Detector-photomultiplier.
- Scanning speed: wavelength scan rate 4000 to 0.5 nm/min.
- Wavelength slew rate : 14,000 nm/min.

- Photometric mode : Absorbance (Abs.), Transmittance (%T), Reflectance (%R.).
- Variable spectral band width selection from 0.1 nm to 5nm and L2/L5 for slow stray light mode for critical samples.
- 1 ml quartz cuvette

Note:- Desktop computer and Printer with proper configuration required for the functioning device should be included. Software for graph and calculation also to be included.

Estimated Amount: Rs. 2,84,000

Tender No. MES/14/2015-16 - HPLC—SHIMADZU, Prominence, Binary Gradient. LC 20 AD, Solvent Delivery Unit

Shimadzu Prominence Binary Gradient HPLC system.

LC-20AD, Solvent delivery unit

Binary gradient pumps

Solvent delivery method : Parallel-type double plunger

Plunger capacity : 10 μ L

Maximum discharge pressure : 40MPa

Flow-rate setting range : 0.0001 to 10.0000 mL/min.

Flow-rate accuracy : 1%

Flow-rate precision : 0.06% RSD

Pulsation : 0.1 MPa

Constant-pressure solvent delivery

Plunger rinsing mechanism : Manual rinsing or automatic rinsing using optional product

Safety measures :

Liquid-leakage sensor, high-pressure/low-pressure limits

Automatic rinsing kit for LC-20AD

Solvent Rack

Manual Injection Valve Kit, analytical

Variable Wavelength Detector(UV-Vis)

Sample collection rack

C-18 column 250mm x4.6mm x5 micron with Guard Column- 1 No

Preparative protein column with Guard Column-1

Software and Computer with Printer

3 KVA online UPS with 1 hour back up

Estimated Amount: Rs. 12,66,000

Tender No. MES/15/2015-16 - Electronic Weighing Balance—SHIMADZU, 0.0001g

Specification:

Minimum Display	0.1mg
Repeatability (Standard Deviation)	≤0.1mg
Linearity	±0.2mg.
Response Time:	Approx. 3.0 seconds
Operating Ambient Temperature:	5-40°C 20-85%.
Temperature Coefficient Sensitivity (ppm/°C):	±2ppm/°C(no condensation).
Pan Size (mm) approx.:	Φ91.
Main Body Dimensions (mm) approx.:	213(W)×356(D)×338(H).
Weight (kg) approx.:	6.2.
Power requirement:	12V, 1A
Internal Calibration:	required

Estimated Amount: Rs. 84,500

Tender No. MES/16/2015-16 - PCR - BIORAD, Gradient Upgradable to RT-PCR, Touch Thermal Cycler with fast reaction mode, Power code.

Specifications

- Gradient Thermal Cycler with Peltier heating and cooling based system.
- Block of 96 x 0.2ml capacity
- Have a maximum ramp rate of 5 degC/second and average ramp rate of 3.3 degC/sec
- Have adjustable heated lid
- Have block and calculated temperature control modes.
- Have Protocol Auto Writer for easier programming to run a standard, fast or ultrafast protocol.
- Have a temperature range of 0-100 deg C
- Have a temperature accuracy of ± 0.2 deg C
- Have a temperature uniformity of ± 0.4 deg C well to well within 10 seconds of arrival at 90 degC and have 6 Thermoelectric modules.
- Have a gradient range of 30-100 deg C and use dynamic ramping for gradient.
- Have a high resolution color display and have 6 USB ports
- Have a memory of >1000 programs with further expansion through a USB Flash drive for transfer of files.
- Option to protect files with optional log-in, restricted user privileges and secured mode for controlled environment should be there.
- Have automatic option for graphical or text based programming
- The software should have exportable Run logs and system error logs
- Option of using the instrument through a PC is there
- Possible to control additional 3 cyclers through one instrument.
- Upgradeable to 5 Target Real Time PCR

- Have O-ring seal to protect thermal electric modules.
- Licensed for PCR

Estimated Amount: Rs. 6,75,000

Tender No. MES/17/2015-16 - Gel Documentation System-BIO RAD, UV and White sample tray suitable for PC.

Gel Doc EZ Imaging System with Image Lab 5.1 Software with Stain Free Tray

Featues

Gel Doc EZ System Hardware

Image resolution >4 megapixels for resolving closely spaced bands on a gel or blot.

Pixel size 4.6 x 4.6 µm.

Linear dynamic range >3.0 orders for all samples

UV for trans-UV illumination and protein detection via colorimetric and fluorescent stains

White for trans-white illumination

Blue for trans-blue illumination

Stain-Free for Bio-Rad stain-free gels and blots

Sample trays are customizable per user and recognized automatically to Facilitates multi-user and multi-lab instruments.

Emission filter is needed to accommodate a large portfolio of detection methods: ethidium bromide, SYBR® Green, SYBR® Safe, SYBR® Gold, GelGreen, GelRed, Fast Blast™, SYPRO Ruby, Flamingo™, Oriole™, CY3, rhodamine, green fluorescent protein, Hoechst, Krypton, silver stain, copper stain, zinc stain, Coomassie Brilliant Blue, Coomassie Fluor Orange, and other spectrally similar stains, labels, and dyes

Compact size/footprint (W x L x H): 27 x 44 x 38 cm; Weight: 9 kg (20 lb)

Stain-free technology with the use of Stain-Free sample tray

Has lens flat-fielding calibration for each sample tray to delivers image data that are always optimized and reproducible without imaging artifacts, providing superior image uniformity and quantitation.

Gel Doc EZ System Software-

Image Lab 5.1 software:- Features and Benefits

True Multi Platform file - save on one computer and analyse on another without loss of work

Volume Analysis : Quantitate areas quickly.

Image Rotation : Allows for fine tuning image orientation in degrees and radians.

3-D Viewer for critical analysis of closely spaced bands.

Annotation Tools : Allows users to do prepublication work with one software package.

Filter Wizard : Helps user choose right imaging filter to improve image.

Flexible Array Tools : Provides ability to quantitate medium to high density arrays.

Drives multiple Imaging platforms : Eliminates learning curve for multiple device laboratories.

On Screen Context Sensitive Help : Makes software easier to use.

Transform Images : Provide complete tools to quickly visualize even the faintest bands.

Automatic band and Lane detection.

Lane based Analysis : Gets results quickly and allows for overlaying quantitation on top of image, lane to lane profile analysis, Gaussian analysis

Band Detection : Highly flexible band detection eliminates user to user variability.

Report Data : Provides all the data a user needs.

Calculate Molecular Weights : Quickly determines Mol. Wt. and displays info with band.

Estimated Amount: Rs. 5,70,000

Tender No. MES/18/2015-16 - Environmental Shaker

Microcontroller based orbital shaking incubator audio visual along, interior illumination for working area, 30-350 rpm and brushless induction motor.

- Heavy Duty Stackable Environmental Shaker with in-built refrigeration.
- Shaking based on Magnetic Direct Drive based without any Motor/ Belt or any other moving parts should be there.
- Throw diameters : Variable of 12.5 mm / 25 mm / 50 mm
- Incubator inside chamber to be of stainless steel.
- Speed Range : 20 – 500 rpm with an accuracy of ± 0.1 rpm

- Temperature range : 15° C below ambient to 80° C ; accuracy : +/- 0.3° C.
- Size of the shaking tray: To hold minimum 24 flasks of 250 ml.
- To have facility of Interfacing the system to a PC for Programming, error Diagnostics and Calibration to meet GLP standards.
- Should be stackable and each machine to run independently at full rpm.
- The shaker to be provided with a stationary tray for static incubation.
- Facility of slow start / stop to avoid splashing, along with standard fast start / stop (Interchangeable).
- Auto stop on Door opening as safety measure – which can be activated or Deactivated as and when desired.
- The incubator shaker must be upgradable for online DO and pH measurement in flasks during shaking and humidity control (Humidity maximum : 85% R.H.)
- Machine to have ISO 9001 manufacturer certificate to be enclosed with the offer.
- Clamps for 250 ml flasks - 12 Nos. and Clamps for 500 ml flasks - 8 Nos. should be supplied with the machine.
- One year warranty should be given on the machine.

Estimated Amount: Rs. 1,75,000

Tender No. MES/19/2015-16 - Cold Room- 6.79' x 10. 54' x 8.16 feet external, split type Air cooled, R 22 gas.

Lamination (For Wall & Ceiling)

Insulation

Thickness of Insulation	PPGI on Outside/ Inside Pre-Fab Modular PUF Panels 60mm
Type of Insulation for Floor*	Factory made readymade floor aluminum chequered plate
Door Size & Type	PUF –Flush in type with accessories: Anti-condensation Door Heater, Pad Lock System, Posi seal Closure, Human Safety release knob.
Max. Product Incoming temperature	+ 12 degC
Temperature required in cold room	+4 Deg C to +8 Deg C
Pull Down Time	12 hrs
Door openings	10 times in a day for 3 min each time
Refrigeration units & Models	Refrigeration Capacity Offered:

	+4 to + 8 Deg C Room temp. & 35 Deg C ambient.
	Blue star indoor and out door units
	Split type - Air-cooled R 22 Gas
Digital Temperature indicator cum controller	Provided
Internal – Lighting	1 No. Vapor-Proof interior light
Max. Ambient Conditions	+35Deg C
Power Requirement	240 volts, 1-phase, 50hz
Electric power Consumption	(1.5 Kw). (1-8 kw)

Estimated Amount: Rs. 2,53,000

Tender No. MES20/2015-16 - BOD incubator: Safety thermostat, Digital temperature indicator cum controller, REMI.

- Safety thermostat to prevent over heating
- Plexi glass inner door to inspect specimens
- Digital temperature indicator-cum controller
- Audio visual alarm warning of temperature variation.

Approx.Working Space(cm)W x D x H	50 x 41 x 84
Approx.External Dimension(cm)W x D x H	62 x 67 x 138
No of Shelves	2
Temperature Range and Accuracy	5°C to 60°C±0. 5°C
Recommended Voltage stabilizer	VS-02

Estimated Amount: Rs. 84,000

Tender No. MES21/2015-16 -Microscope-Monocular/ Binocular

Monocular

Standard set complete with built-in LED light illuminator, quadruple ball bearing nosepiece, focusing by co-axial coarse and fine focusing controls ,high resolution long barrel achromatic objectives 4x,10x, 40x (spring) and 100x (spring ,oil immersion),with an inclined monocular observation tube rotatable through 360 degree fitted with fungus resistant ,anti-reflected coated prism ,compensating widefield paired eyepiece WF10x(F.N.18)and with right hand co-axial low

drive mechanical stage ,substage Abbe condenser 1.25 N.A with iris diaphragm focusable with rack & pinion.

Binocular:

Optical System	Semi-Plan achromatic optics with anti-fungal treatment. Uniformly centered, Interchangeable & Parfocal, Anti-Fungus treated															
Body	Aluminium die cast body with all critical movements based on ball bearing and wire guides, thereby ensuring smooth and precise manipulation.															
Inclined Observation Head	Binocular 45 degree inclined, rotatable through 360 degrees															
Eyepieces(wide field) for observation	WF10x(FN 18mm)paired eyepiece. The unique optical design of the compensating eyepiece provides relief from eye fatigue and renders color-compensated wide-field images of utmost clarity.															
Nosepiece	Quadruple revolving nosepiece based on precision ball-bearing mechanism with positive stop click															
Objectives	<p>Semi-Plan achromatic objectives, antifungal</p> <table border="1"> <thead> <tr> <th></th> <th>N.A.</th> <th>W.D</th> </tr> </thead> <tbody> <tr> <td>4X</td> <td>0.10</td> <td>29.0mm</td> </tr> <tr> <td>10X</td> <td>0.25</td> <td>6.3mm</td> </tr> <tr> <td>40X</td> <td>0.65</td> <td>0.6mm</td> </tr> <tr> <td>100X(oil/spring)</td> <td>1.25</td> <td>0.15mm</td> </tr> </tbody> </table>		N.A.	W.D	4X	0.10	29.0mm	10X	0.25	6.3mm	40X	0.65	0.6mm	100X(oil/spring)	1.25	0.15mm
	N.A.	W.D														
4X	0.10	29.0mm														
10X	0.25	6.3mm														
40X	0.65	0.6mm														
100X(oil/spring)	1.25	0.15mm														
Mechanical Stage	Co-axial low drive mechanical stage(125mm x 145mm) (± 5 mm)with traverse area of 50mm x 76mm(± 5 mm)															
Condenser	Abbe condenser with aperture iris diaphragm(N.A.1.25) focusable with rack & pinion through 20mm and a continuously variable iris diaphragm with a removable blue filter for daylight observation. Rack & pinion mounted condenser holder.															
Focusing	Co-axial coarse&fine controls with focus adjustment and fine adjustment knobs. Coarse Focus range 25mm.															
Illumination	Built-in-illumination base with pre-centered 6V20W halogen light source coupled with an efficient collector lens system. Universal Power supply 100V~240V AC 50Hz(SMPS). Supplied with one spare bulb&spare fuse. Easily replaceable lamp from front.															

Estimated Amount: Rs. 2,12,500

Tender No. MES22/2015-16 - Trinocular microscope with camera and analysis software:

Magnus CMOS 3MP (for Bi) C—Mount camera with USB connectivity (for any Binocular Microscope)supplied with C-mount eyepiece adapter.

IMAGE ANALYSIS SOFTWARE

Image editing

View :	Zoom preview, image information, slide show etc.
Image processing	Contrast enhancement, arithmetic image functions
Special filters	For various image contrast
Morphometry	Roundness, shape, orientation, image addition, subtraction, multiplication etc.
Count & classification	Identification of objects in an image, count them, obtain several features measurements, objects identification by user or automatically user defined classification on basis of size or intensity.
Measurement	<ul style="list-style-type: none">• (a) spartial calibration,• (b) line measurements for distance, length, width, perimeter, angle, three point radius• (c) area by enclosed line controlled by four arrow keys available on keyboard arrows with zoomed preview.
Segmentation	Measure area fraction & volume fraction. Identify multiple phases within microstructure.
Report	<ul style="list-style-type: none">• (a) three options : direct printout with original image, processed image & tabular results• (b) export to ms office or excel for further modification.

Estimated Amount: Rs. 69,000

M.E.S.COLLEGE MARAMPALLY

TENDER

GENERAL CONDITIONS OF CONTRACT AND SCHEDULE FOR THE SUPPLY OF

LAB EQUIPMENTS, COMPUTERS AND OTHER ITEMS

NAME OF TENDERER :

ADDRESS :

Signature of Tenderer :

Last date and time of the receipt of tender: **12.12.2015, 4.00 PM**

APPENDIX VI
FORM OF TENDER

From

To

Sir,

I/We hereby tender to supply, under the annexed general conditions of contract; the whole of the articles referred to and described in the attached specification and schedule, or any portion thereof, as, may be decided by Principal M.E.S. College Marampally, at the rates quoted against each item. The articles will be delivered within the time and at the places specified in the schedule.

*I/We am/ are remitting/have separately remitted the required amount of

Rs. as earnest money.

Yours faithfully,

Signature

Address

Date:

*To be scored in cases where no earnest money deposits is furnished.

GENERAL CONDITIONS

Sealed tenders are invited for the supply of the equipments and other items as specified in the schedule below/attached.

1. The tenders should be addressed to the officer mentioned below in a sealed cover with the tender number and name shown below duly super scribed on the cover.
2. The tenders should be in the prescribed form which can be obtained from the officer mentioned below on payment of the price which is also noted below. Duplicate copies of tender for ms will also be issued at the rate specified below. The cost of tender forms once paid will not be refunded. Tenders which are not in the prescribed form are liable to be rejected. The rates quoted should be only in Indian currency. Tenders iii any other currency are liable to rejection.
3. Intending tenders should send their tenders so as to reach the Officer mentioned below, on due date and time (noted below). No tender received after the specified date and time will be accepted on any account. The rates will be considered firm for acceptance till the date mentioned below. Tenders not stipulating period of firmness and tenders with price variation clause and/or subject to prior sale' condition are liable to be rejected.
4. (a) Every tenderer who has not registered his name with the State Government (Stores Purchase Department), should send along with his tender, an earnest money of one per cent of the total cost of the articles tendered for (rounded to the nearest rupee) subject to a minimum of Rs.30, if the amount calculated at one per cent of the value of the articles tendered for falls below Rs.30. The amount may be paid either by remittance into any Government Treasury chalans in duplicate, duly countersigned by the officer mentioned below or by Demand Drafts (crossed) on the local branch of Union Bank of India/State Bank of India drawn in favour of the Officer mentioned below. In the case of remittance into the treasury, chalan receipt should be forwarded along with the tender. Cheques will not be accepted. The earnest money of the unsuccessful tenderers will be returned within a period of one month after the tenders are settled; but that of the successful tenderer will be adjusted towards the security that will have to be deposited for the satisfactory fulfillment of the contract. "If the Earnest Money Deposit of the successful tenderer is not refunded within three months of finalization of the contract interest at the rate of interest paid for S.B. Accounts by nationalized banks will be paid on the Earnest Money Deposit."
- (b) Tenderers whose names are registered with Governments (Stores Purchase Department) are generally exempted from furnishing earnest money for such articles for which they have registered their names. If they tender for stores other than those for which they have registered their names, they will have to furnish earnest money as in the case of unregistered firms. Registered firms will have to quote invariably in every tender they submit the registration number assigned to them by the Stores Purchase Department.
- (c) (i) Small Scale Industries and Cottage Industries and Industrial Co-operatives within the State which are certified as such by the Director of Industries and Commerce or by the Regional Joint Directors of Industries and Commerce will be exempted from furnishing earnest money deposits in support of tender submitted by them to Government Departments. The Khadi and Village Industries Co-operative Societies and the institutions registered under the Literary, Scientific and Charitable Societies Act and financed by the Kerala Khadi and Village Industries Board within

that State which are certified as such by the Secretary, Kerala Khadi and Village Industries Board will be exempted from furnishing earnest money deposits in support of tenders submitted by them to Government Departments. Government Institutions/State Public Sector Industries which manufacture and supply stores will also be exempted from furnishing earnest money for tenders submitted by them.

(ii) Small Scale Industries, Cottage Industries and Industrial Co-operatives within the State which have been registered as such with the Industries Department (Department under the control of the Director of Industries and Commerce) on furnishing proof of such registration will be exempted from furnishing security deposit against contracts for supply of stores manufactured by them provided that an officer of and above the rank of Deputy Director of Industries and Commerce having jurisdiction over the area also certifies to the soundness and reliability of the concerns to undertake the contracts. The Khadi and Village Industries Co-operative Societies within the State which have been registered as such with the Kerala Khadi and Village Industries Board and the institutions registered under the Literary, Scientific and Charitable Societies Act and which are financed by the Board within the State on furnishing proof of such registration will be exempted from furnishing security deposits against contracts for supply of stores manufactured by them provided that the Secretary, Kerala Khadi and Village Industries Board also certifies to the soundness and reliability of the concerns to undertake the contracts. Government Institutions or any institutions listed in Appendix XVI which supplies stores, and Government of India undertakings will also be exempted from furnishing security in respect of contracts for supply of stores.

(d) In the matter of purchase of Stores by the State Government Departments, Small Scale Industrial Units sponsored by the National Small Scale Industries Corporation Limited, New Delhi and in respect of which competency certificates are issued by the Corporation will be exempted from payment of Earnest Money Deposits and Security Deposits.

(e) The exemption stipulated in clauses (b),(c) and (d), above will not however, apply to tenders for the supply of raw materials or dietary articles or supply of stores on rate or running contract basis.

5. The tenders will be opened on the appointed day and time in the office of the undersigned, in the presence of such of those tenderers on their nominees who may be present at that time.
6. If any tenderer withdraws from his tender before the expiry of the period fixed for keeping the rates firm for acceptance, the earnest money if any, deposited by him will be forfeited to the Principal.
7. Tenderers shall invariably specify in their tenders the delivery conditions including the time required for the supply of articles tendered for.

8. (a) The tenders shall clearly specify whether the articles offered bear Indian Standards Institution Certification Mark or not. In such cases, they shall produce copies of certification mark along with their tender in support of it.

(b) Tenderers shall clearly specify whether the goods are offered from indigenous sources, from imported stocks in India or from foreign sources to be imported under a license. Government reserves the right to reject offers for import of goods if the Import Trade Control Policy in force at the time of award of the contract prohibits or restricts such imports.

9. The final acceptance of the tenders rests entirely with the Principal who do not bind themselves to accept the lowest or any tender. But the tenders on their part should be prepared to carry out such portion of the supplies included in their tenders as may be allotted to them.

10. In the case of materials of technical nature the successful tenders should be prepared to guarantee satisfactory performance for a definite period under a definite penalty.

11. Communication of acceptance of the tender normally constitutes a concluded contract.

Nevertheless; the successful tenders shall also execute an agreement for the due fulfillment of the contract within the period to be specified in the letter of acceptance. The contractor shall have to pay all stamp duty, lawyer's charges and other expenses incidental to the execution of the agreement. Failure to execute the agreement within the period specified will entail the penalties set out in para 12 below.

12. (a) The successful tenders shall, before signing the agreement within the period specified in the letter of acceptance of his tender, deposit a sum equivalent to 5 per cent of the value of the contract as security for the satisfactory fulfillment of the contract less the amount of money deposited by him along with his tender. The amount of security may be deposited in the manner prescribed in clause 4 supra or in Government Treasury Saving Bank and the Pass Book pledged to Purchasing Officer or in Fixed Deposit Receipts of State Bank of Travancore/State Bank of India endorsed in favor of the above officer. Letters of guarantee in the prescribed form for the amount of security from an approved Bank will also be considered though at the discretion of Principal. If the successful tenderer fails to deposit the security and execute the agreement as stated above, the earnest money deposited by him will be forfeited to Principal and contract arranged elsewhere at the defaulter's risk and any loss incurred by Principal on account of the purchase will be recovered from the defaulter who will, however, not be entitled to any gain accruing thereby. If the defaulting firm is a registered firm their registration is liable to be cancelled.

(b) In cases where a successful tenderer, after having made partial supplies fails to fulfill the contracts in full, all or any of the materials not supplied may at the discretion of the Purchasing Officer, be purchased by means of another tender/quotation or by negotiation or from the next higher tenderer who had offered to supply already and the loss, if any, caused to the Principal shall thereby together with such sums as may be fixed by the Principal towards damages be recovered from the defaulting tenderer.

(c) Even in cases where no alternate purchases are arranged for the materials not supplied, the proportionate portion of the security deposit based on the cost of the materials not supplied at the rate shown in the tender of the defaulter shall be forfeited and balance alone shall be refunded.

- (d) If the contractor fails to deliver all or any of the stores or person the service within the time/period(s) specified remedies under the purchaser shall without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damages, a sum equivalent to 0.5% or 1% of the delivered price of the delayed stores or unperformed services for each week of delay until actual deliver or performance, up to a maximum deduction of 10% of the contract prices of the delayed stores or services. Once the maximum is reached, the purchaser may consider termination of the contract at the risk and cost of the contractor.
13. The security deposit shall, subject to the conditions specified herein, be returned to the contractor within three months after the expiration of the contract, but in the event of any dispute-arising between the Department concerned and the contractor, the Department shall be entitled to deduct out of the deposits or the balance thereof, until such dispute is determined the amount of such damages, costs, charges and expenses as may be claimed. The same may also be deducted from any other sum which may be due at any time from Government to the contractor. In all cases where there are guarantee for the goods supplied the security deposit will be released only after the expiry of the guarantee period. "If the Security Deposit is not released even after the completion of one year , from the date of expiry of the period of contract provided there are no complaints against the contractor, interest at the rate of paid for S.B. Accounts by nationalized banks will be paid on the Security Deposit".
- (a) "If the Earnest Money Deposit/Security Deposit is not released within the period specified for no fault of the Contractor, the loss incurred to Principal shall be made good from the Officer responsible for the belated release of the Earnest Money Deposit/Security Deposit."
14. (a) All payments to the contractors will be made by the Purchasing Officer in due course:
- (i) either by Departmental cheques payable at the Union Bank of India; or
- (ii) in the case of supplies from abroad by drafts as may be arranged between the contracting parties.
- (b) All incidental expenses incurred by the Government for making payments outside the district in which the claim arises shall be borne by the contractor.
15. The tenders shall quote also the percentage of rebate(discount) offered by them in case the payment is made promptly within fifteen days/within one month of taking delivery of stores.
16. Ordinarily payments will be made only after the supplies are actually verified and taken to stock but in exceptional case; payments against satisfactory shipping documents including certificates of Insurance will be made up to 90 per cent of the value of the materials at the discretion of Government. Bank charges incurred in connection with payment against documents through bank will be to the account of the contractor. The firms will produce stamped pre-receipted invoices in all cases where payments (advance/final) for release, of railway receipts/shipping documents are made through banks. In exceptional cases where the stamped receipts of the firms are not received for the payments (in advance) the unstamped receipt of the Bank (i.e., counterfoils of pay-in slips issued by the Bank) along may be accepted as a valid proof for the payment made.

17. The contractor shall not assign or make over the contract on the benefits or burdens thereof to any other person or body corporate. The contractor shall not underlet or sublet to any person or persons or body corporate in writing of the purchasing officer who shall have absolute power to refuse such consent or to rescind such consent (if given) at any time if he is not satisfied with the manner in which the contract is being executed and no allowance or compensation shall be, made to the contractor or the sub-contractor upon such rescission. Provided always that such consent be given at any time, the contractor shall not be relieved from any obligation, duty or responsibility under this contract.

18. (a) In case the contractor becomes insolvent or goes into liquidation, or makes or proposes to make any assignment for the benefit of his creditors or proposes any composition with his creditors for the settlement of his debts, carries on his business or the contract under inspection on behalf of or his creditors, or in case any receiving order or orders, for the administration of his estate are made against him or in case the contractor shall commit any act of insolvency or in case in which under any clause or clauses of this contract the contractor shall have rendered himself liable to damages amounting to the whole of his security deposits, the contract shall, thereupon, after notice given by the Purchasing Officer to the contractor, be determined and the Principal may complete the contract in such time manner and by such persons as the Department/Government shall think fit. But such determination of the contract shall be without any prejudice to any right or remedy of the Government against the contractor or his sureties in respect of any breach of contract therefore committed by the contractor. All expenses and damages caused to Principal by any breach of contract by the contractor shall be paid by the contractor to Principal, and may be recovered from him under the provisions of the Revenue Recovery Act in force in the State.

(b) The persons/contractors submitting tenders should produce a solvency certificate, clearly indicating to what extent they are solvent from the Tahsilder of the Taluk where they reside along with their tenders.

Note: The solvency certificate referred to above will apply only in the case of supply of the following articles viz., dietary articles, fuels, raw materials like roots, creepers, flowers etc., and provisions to hospitals and hostels, sundry articles etc.,

19. (a) In case the contractor fails to supply and deliver any of the said articles and things within the time provided for delivery of the same, or in case the contractor commits any breach of any of the covenants, stipulations and agreements herein contained, and on his part to be observed and performed, then and in any such case, it shall be lawful for Principal (if they shall think fit to do so) to arrange for the purchase of the said articles and things from elsewhere or on behalf of the Principal by an order in writing under the hand of the Purchasing Officer put an end to this contract and in case the Principal shall have incurred, sustained or been put to any costs, damages or expenses by reason of such purchase or by reason of this contract having been so put an end to or in case any difference in price, compensation, loss, costs, damages, expenses or other moneys shall then or any time during the continuance of this contract be payable by the contractor to the Principal under and by virtue of this contract, it shall be lawful for the Principal from and out of any moneys for the time being payable or owing to the contractor from the Principal under or by virtue of this contract or otherwise to pay and reimburse to the government all such costs, damages and expenses they may have sustained, incurred or been put to by reason of the purchase made elsewhere or by reason of this contract having been so put an end to as aforesaid and also all such difference in price, compensation, loss, costs, damages, expenses and other moneys as shall for the time being be payable by the contractor aforesaid.

- (b) In case any difference or dispute arises in connection with the contract, all legal proceedings relating to the matter shall be instituted in the Court within whose jurisdiction the Purchasing Officer voluntarily resides, namely, Aluva
20. Any sum of money due and payable to the contractor (including security deposit returnable to him) under this contract may be appropriated by the Purchasing Officer or any other person authorized by Principal and set off against any claim of the Principal for the payment of a sum of money arising out of or under any other contract made by the contractor with the Principal or any other person authorized by the Principal. Any sum of money due and payable to the successful tenderer or contractor from Principal shall be adjusted against any sum of money due to Government from him under any other contracts.
21. Every notice hereby required or authorized to be given may be either given to the contractor personally or left at his residence or last known place of abode or business, or may be handed over to his agent personally, or may be addressed to the contractor by post at his usual or last known place of abode or business and if so addressed and posted, shall be deemed to have been served on the contractor on the date on which, in the ordinary course of post, a letter so addressed and posted would reach his place abode or business.
22. The tenderer shall undertake to supply materials according to the standard sample and /or specifications.
23. (a) No representation for enhancement of rates once accepted will be considered. However, in exceptional cases if Principal is convinced of any compelling need for enhancement of rate, it may do so.
- (b) In the case of imported goods, when the price accepted is the ex-site price quoted by the tenderer, the benefit of any reduction in the mc. of price should accrue to the purchasing department of Government.
24. Any attempt on the part of the tenderers or their agents to influence the Department/Stores Purchase Department in their favour by personal canvassing with the Officers concerned will disqualify the tenderers.
25. Tenderers should be prepared to accept orders subject to the penalty clause for forfeiture of security in the event of default in supplies or failure to supply within the stipulated period.
26. Samples should be forwarded if called for and unapproved samples got back by the tenderers at their own cost. Samples sent by V.P. Post or 'freight to pay' will not be accepted. The approved samples may or may not be returned at the discretion of the undersigned. Sample sent by post, railway or plane should be so dispatched as to reach the Purchasing Officer not later than the date on which the tenders are due. In the case of samples sent by railway the receipt should be sent separately and not along with the tender since the tender will be opened only on the appointed day and demurrage will have to be paid if the railway parcels are not cleared in time. Principal will not be responsible if any sample is found missing at any time due to the non-observance of the provisions of this clause. Tenderers whose samples are received late will not be considered. Samples should be forwarded under separate cover duly listed and the corresponding number of the item in the tender schedule should also be noted in the list of

samples. Tenders for the supply of materials are liable to be rejected unless samples, if called for, of the materials tendered for are forwarded.

27. Telegraphic quotations will not be considered unless they give details of prices and are immediately followed by confirmation with full relevant details posted before the due date of the tender.

28. (a) The prices quoted should be inclusive of all taxes, duties, cesses, etc. which are or may become payable by the contractor under existing or future laws or rules of the country of origin/supply or delivery during the course of execution of the contract.

(b) In case payment of customs/excise duty is to be made by the Principal, the Purchasing Officer will pay the duty on the 'unloaded invoice' price' only in the first instance, any difference being paid when the tenderer produces, the final assessment orders later.

29. The tenderer will invariably furnish the following certificate with their bills for payment.

“Certified that the goods on which sales tax has been charged have not been exempted under the Central Sales Tax Act or the State Sales Tax Act or the Rules made there under and the charges on account of sales tax on these goods are correct under the provisions of the relevant Act or the rules made there under. Certified further that we (or our Branch or Agent)

(Address)

Are registered as dealers in the State of

.....

Under Registration No.....

For purpose of sales tax”.

30. Special conditions, if any, of the tenderers attached with the tenders will not be applicable to the contract unless they are expressly accepted in writing by the purchaser.

31. (This applies only to the case of supply contracts where works such as erection and construction have also to be done. This may be scored out when not applicable). In the event of any question or dispute arising under these conditions or any special conditions of this contract or in connection with this contract the same shall be referred to the award of an arbitrator to be nominated by the purchasing officer and an arbitrator to be nominated by the contractor or in case of the said arbitrators not agreeing then to the award of an umpire to be appointed by the arbitrators in writing before proceeding on the reference and the decision of the arbitration or in the event of their not agreeing of the umpire appointed by them shall be final and conclusive and the provision of the, Indian Arbitration Act, 1940 and of the rules there under and any statutory modifications thereof shall be deemed to apply to and be incorporated in this contract Upon every and any such reference the assessment of the costs incidental to their reference and award respectively shall be in the discretion of the arbitrators or in the event of their not agreeing of the umpire appointed by them. The venue of

arbitration shall be the place from which the acceptance of tender is issued or such other place as the purchaser at his entire discretion may determine.

32. The tender should send along with his tender an agreement executed and signed in Kerala Stamp Paper of value Rs.15 purchased in the Kerala State. Stamp paper will be supplied to firms outside Kerala along with the tender forms on payment of Rs.20 (Rs.15 being the value of the stamp paper and Rs.5 incidental charges) which may be remitted by money order in advance. A specimen form of agreement is given as annexure to this tender. Tenders without the agreement in stamped paper will be rejected outright. But in deserving cases where agreement has not been received, the purchasing officer may exercise his discretion and call upon such tenders to execute the agreement within a period of ten days from the date of issue of such intimation, if the purchasing officer is satisfied that the omission to forward the agreement along with the tender was due to causes beyond the control of the tenderer and was not due to any negligence on his part. Agreement received from a tenderer after the above time limit will not be considered.

Superscription - Tender No.....

for..... Due date and time for receipt of tender: -

Date and time for opening of tender:-

Date upto which the rates are to be

firm-Price of tender form –

Price of duplicate copy –

Address of officer from whom tender forms are to be obtained and to whom tenders are to be sent.-

Name of Office: (Name and designation of Purchasing Officer) Station and date:

SCHEDULE OF MATERIALS

Sl. No	Specifications	Quantity	Estimated Price	Remarks
1				

Whether samples essential:

Period within which goods should be delivered:

Rates should be quoted for delivery for

.....

at Departmental Stores

Other special conditions:

ANNEXURE
AGREEMENT

Articles of agreement executed on this the day of
..... two thousand and eleven BETWEEN the Principal M.E.S. College
Marampally(hereinafter referred to as ‘the Principal’) of the one part and Shri.....
.....(H.E name
and address of the tenderer) (hereinafter referred to as “the bounden”) of the other part.

WHEREAS in response to the Notification No..... dated..... the
bounden has submitted to the Principal a tender for the specified therein subject
to the terms and conditions contained in the said tender;

WHEREAS the bounden has also deposited with the Principal a sum of Rs..... As
earnest money for execution of an agreement undertaking the due fulfilment of the contract in case
his tender is accepted by the Principal.

Now THESE PRESENTS WITNESS and it is hereby mutually agreed as follows:

1. In case the tender submitted by the bounden is accepted by the Principal and the contract
for Is awarded to the bounden, the bounden shall within..... Days
of acceptance of his tender execute an agreement with the Principal incorporating all the terms and
conditions under which the Principal accepts his tender.

2. In case the bounden fails to execute the agreement as aforesaid incorporating the terms
and conditions governing the contract, the Principal shall have power and authority to recover from
the bounden any loss or damage caused to the Principal by such breach as may be determined by the
Principal by appropriating the earnest money deposited by the bounden and if the earnest money is
found to be inadequate the deficit amount may be recovered from the bounden and his properties
movable and immovable in the manner hereinafter contained.

3. All sums found due to the Principal under or by virtue of this agreement shall be
recoverable from the bounden and his properties movable and immovable under time provisions of
the Revenue Recovery Act for the time being in force as though such sums are arrears of land
revenue and in such other manner as the Government may deem fit.

In witness whereof Shri..... (H.E.name and designation) for and on behalf of the Principal M.E.S. College Marampally and Shri..... the bounden have hereunto set their hands the day and year shown against their respective signatures.

Signed by Shri.....(date).....

In the presence of witness:

- 1.
- 2.

Signed by Shri.....(date).....

In the presence of witnesses:

- 1.
- 2.