



Tender No – CCC/DSTFIST/2015/4

PURCHASE OF LAB EQUIPMENTS FOR PHYSICS

[Kindly enclose a signed copy of this document along with the TENDER DOCUMENT]

ITEMS

LED Characteristics Apparatus:

Thermal Conductivity Apparatus (Lees' Disc method)

Energy Band – Gap Of Semiconductor Diode:

Jaegers Surface Tension Apparatus

Surface Tension – Capillary rise

Capillary tube, stand and capillary holder with pointer

Spectrometer

Least count 1', Scale 6" and Scale 7", including prism table and holder

Travelling Microscope

H & V Motion, , Least count 0.001 cm

Phoenix Kit

Spin Coating System

Model Spin NXG – P1 A with Oil Free Vacuum Pump

e/m Apparatus

e/m Thomson.

Abbe's Refractometer

Millikan's Oil Drop Apparatus

RF Oscillator

1-100MHz with fine adjustment

Viscometer. Searle's Apparatus

Pelletizer- For making Pellets from Powder Samples

Magnetic Stirrer

Capacity 2 Liters

Magnetic Stirrer with Hot Plate

Capacity 1 Liter

Capacity 2 Liters

Hot Plate

AF Oscillator

Sine / Square Wave Audio Oscillator

10 MHz Single Trace Oscilloscope

Digital Storage Oscilloscope 50 MHz

Bandwidth: Dc to 50MHz No. of channels: 2+Ext trig, FFT: Should have simultaneous display of both time and FFT waveforms in same window.

Test fixture for Dielectric Set – Up

Distillation Unit (Single, Double) Glass Distillation Unit

Capacity 3 Liters, Single Stage

Capacity 3 Liters, Double Stage

8086 / 88 Microprocessor kit

Susceptibility of Solids by Guoy's Method

K type Thermocouple Set Up

Solar (Photo Voltaic Cell) Characteristics Apparatus

Anderson Bridge Experiment complete set up

Resistance boxes, Head phone, Power supply, Coils with inductance 4 H and resistance 150 ohm, AF oscillator

LASER set up for studying diffraction pattern including single and double slits

CO₂, Methane, Sensors

Young's Modulus & Poisson Ratio Of Glass. Cornu's Method

Melde's String Experiment set up with tuning fork, power supply, pan,

Wheatstone Bridge – Carrey Foster Type

Daniel Cell Substitute

D.C. Voltmeter (1-20 V, 1 V Least Count, 1-10 V, 0.05 V Least Count)

RADAR Trainer (Including software, DSO, Transmitter, Receiver)

**Contact Person for Technical Clarification: Dr. Tiju Joseph Mathew, Assistant Professor –
Mob:9447364797, email: tijujm@gmail.com or Dr. Hysen Thomas - 9446974398**

**To purchase Tender form contact Dr. Hysen Thomas, Assistant Professor, mob: 9446974398, email:
hysenthomas@gmail.com**

The soft copy of TENDER FORMS can be obtained by contacting Dr. Hysen Thomas. . In such cases separate DD for the cost of Tender forms and EMD drawn in favour of Principal, Christian College, Chengannur payable at CANARA Bank Chengannur, Alappuzha District Kerala should be enclosed with the Tender Document.

Tendered Amount: Rs. 10.68 Lakhs.

Cost of Tender Form: Rs. 1,700/- + Rs. 85/- (VAT)

EMD: Rs. 10,680/- (1 % of Tendered Amount)

Last Date of Sale of Tender Forms: 10/10/2015 02:00 pm

Last Date of Submission of Tenders 10/10/2015 04:00 pm

Date of Opening Tender: 11/10/2015 10:00 am at Audio Visual Room Room, Christian College, Chengannur

<i>Description of Items</i>	
1.	LED Characteristics Apparatus: Variable wave length, gain adjustment including power supply and digital meter
2.	Thermal Conductivity Apparatus (Lees' Disc method) Whole set up- Two heavy brass cylinders with holes to insert thermometers, stand, steam generator, rubber tube, Two thermometers 0 to 110°C(Sensitivity 0.5°C)
3.	Energy Band – Gap Of Semiconductor Diode: Digital temperature controller with variable temperature base , power supply and measurement meter
4.	Jaegers Surface Tension Apparatus
5.	Surface Tension – Capillary rise Capillary tube, stand and capillary holder with pointer
6.	Spectrometer Least count 1', Scale 6" and Scale 7", including prism table and holder
7.	Travelling Microscope H & V Motion, , Least count 0.001 cm
8.	Phoenix Kit
9.	Spin Coating System Model Spin NXG – P1 A with Oil Free Vacuum Pump For all the above Model Derlin Substrate Holders required and N 2 and other inert gas purging Modules will be delivered at Free of Cost
10.	e/m Apparatus e/m Thomson (Bar Magnet) Apparatus Cathode Ray tube fitted on wooden frame with scale divided in centimeters and its power supply. Deflecting Magnetometer with permanent magnetic compass included. Compass stand, a pair of Bar Magnet.
11.	Abbe's Refractometer
12.	Millikan's Oil Drop Apparatus Entire set up with power supply, atomizer, Non-volatile mineral oil (120 ml)
13.	RF Oscillator 1-100MHz with fine adjustment
14.	Viscometer. Searle's Apparatus
15.	Pelletizer- For making Pellets from Powder Samples

16.	Magnetic Stirrer
	Capacity 2 Liters
17.	Magnetic Stirrer with Hot Plate
	Capacity 1 Liter
	Capacity 2 Liters
18.	Hot Plate
19.	AF Oscillator
	Sine / Square Wave Audio Oscillator
20.	10 MHz Single Trace Oscilloscope
21.	Digital Storage Oscilloscope 50 MHz
	Bandwidth: Dc to 50MHz No. of channels: 2+Ext trig, FFT: Should have simultaneous display of both time and FFT waveforms in same window.
22.	Test fixture for Dielectric Set – Up
23.	Distillation Unit (Single, Double) Glass Distillation Unit
	Capacity 3 Liters, Single Stage
	Capacity 3 Liters, Double Stage
24.	8086 / 88 Microprocessor kit
25.	Susceptibility of Solids by Guoy's Method
26.	K type Thermocouple Set Up
27.	Solar (Photo Voltaic Cell) Characteristics Apparatus
28.	Anderson Bridge Experiment complete set up
	Resistance boxes, Head phone, Power supply, Coils with inductance 4 H and resistance 150 ohm, AF oscillator
29.	LASER set up for studying diffraction pattern including single and double slits
30.	CO ₂ , Methane, Sensors
31.	Young's Modulus & Poisson Ratio Of Glass. Cornu's Method
32.	Melde's String Experiment set up with tuning fork, power supply, pan,
33.	Wheatstone Bridge – Carrey Foster Type
34.	Daniel Cell Substitute
35.	D.C. Voltmeter (1-20 V, 1 V Least Count, 1-10 V, 0.05 V Least Count)
36.	RADAR Trainer (Including software, DSO, Transmitter, Receiver)

For any clarification regarding tendering process kindly contact

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