

Ramakrishna Mission Ashrama

(A Branch Centre of Ramakrishna Mission, Belur Math, Howrah-711202)

Narendrapur, Kolkata – 700103, West Bengal, India

A Scientific Industrial Research Organisation by DST, Govt. of India College with Potential for Excellence (CPE), RE-accredited by NAAC – 'A' (CGPA 3.56 out of 4)

Notice No. VP/Tender/2021/004 Date: 09 April 2021

Quotations are invited from eligible firms as per the following details:

- 1. Name of the Department seeking quotations: **Physics**
- 2. Quotations should be sent to:

Principal,
Ramakrishna Mission Residential College, Narendrapur. 700 103
E-mail: rkmcnpur@gmail.com

(Note: Soft copies of the quotations can be emailed to the above address, but hard copies of the quotation should be brought if your firm gets selected for the delivery of goods

3. Contact person: Dr Amal Sarkar

Email: amal.iitb@gmail.comCell Phone: +91 9821864970

Sub: RFQ For High Energy Physics Laboratory

Requesting potential vendors for a quotation for the following instruments, one piece each (unless specified otherwise) with the given specification **before 23**April 2021.

1. UV Writing System- Laser based, Specifications

Laser: GaN laser diode (preferred)

Wavelength: 405nm

Spatial filtering unit: Objective lens based



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Spot size – 0.5-5 microns

Focus controls= Software controllable

XY Scanning stage travel = 300mm x 300mm XY drive = Servomotor

Straight line accuracy = 10 microns

XY Resolution = 1 micron

Z axis travel = 20mm

Z axis drive =Stepper motor with linear encoder Z axis resolution = 1

Alignment camera

Sensor= 5MP 1/2.5 " CMOS sensor

Active pixels = $2592H \times 1944V$

Pixel size = 2.2um x 2.2um

Software:

Image analyser = Image grabbing, line thickness measurement. Mach 3 = CNC software for making different patterns

Make: Holmarc (preferred)

Additional accessory: 60x Microscope Objective

2. ILD2300-2 Laseroptical displacement measuring system

Specifications

Intelligent laser displacement sensor with integrated controller

Protection class IP65

Measuring range: 0.1um – 300mm

Start of measuring range (SMR): 24mm

Laser class 2

Sensor cable (integrated) 0.25m Measuring mode: diffuse / direct

reflection

Measuring frequency (adjustable): 49kHz, 30kHz; 20kHz, 10kHz,

2.5kHz and 1.5kHz Signal output (switchable): Digital (RS422,

Ethernet and EtherCAT)

Power supply: 11 ... 30VDC; < 3 W

Configuration and data acquisition via web browser

XY Scanning stage travel = 300mm x 300mm XY drive = Servomotor

(or higher)



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Straight line accuracy <= 0.5 microns XY Resolution < 0.5 micron

Additional accessory:

- PC2300-3/SUB-D Power and output cable, length 3 m
 For sensor type ILD2300-xxx
 with 14-pin circular connector and 15-pin HD connector, for
 supply of 24 VDC (11 30 VDC) andoutput of signals: Ethernet,
 EtherCAT, RS422, Synchronization, laser protection shutdown,
 limit switch, PC2300-x/SUB-D are drag-chain suitable
- 2. PC2300-0.5Y Connecting Cable ILD2300 Cable for power supply and connection of ILD2300 to a PC or SPS.
- 3. Lenovo V520 Slim Tower(10NNA01UIG)

Specifications

Intel i5 10th generation (or higher) 8 GB RAM, 1TB HD, Windows 10 (>=2019) Monitor 27"

Quantity: 2

4. Gas Electron Multiplier Detector

Specifications

10 cm X 10 cm

140-70/50

Double Mask

Quantity: 2

Make: CERN, Switzerland

5. Gas Electron Multiplier Detector

Specifications

10 cm X 10 cm

Double Mask

Quantity: 2

Make: Micropak, India



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6. GM Counter

Specifications

Wide end window GM detector

Make: Nucleonix

7. Picoameter

Specifications

DPM-111, Digital Picaometer

Make: SES Instruments

8. Digital Oscilloscope

Specifications

DSO-20MHz,OWN

Make: OWN

9. Microscope

Specifications

BINOCULAR MICROSCOPE

Make: RADICAL

10. High Voltage Power Supply 10k

Specifications

AI 10W, 0-10kV

Make: Ambey International

11. Barometer

Specifications

Hand Held

Make: HTC

12. Gas Flow meter

Specifications

GET-100AP-RS485-1L-U



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Make: Manas

13. Beta (Iron) Radioactive Source LMW-C14-1 155 RS () Need certificate for special permisssion

We have DSIR certificate and GST number, so please add 5% GST

Note:

- 1. The Principal reserves the right to reject any quotation if it fails to fulfil general norms.
- 2. The Principal reserves the right to cancel any notification inviting Quotations for Procurement of the Equipment under unavoidable circumstances.
- 3. The decisions of the Purchase Committee and the Principal will be the final
- 4. The college follows the Accounting and Procurement Policy of Ramakrishna Mission as the college is under the aegis of this organisation.

Shadingnon

Principal