

GOVT. COLLEGE OF ENGINEERING, AMRAVATI



Kathora Naka, Amravati – 444 604 (M.S.)
(An Autonomous Institute of Govt. of Maharashtra)

"Towards Global Technological Excellence" Phone: (0721) 2531929, 2531930, Fax: 0721-2531931,

Website-www.gcoea.ac.in, E-mail:principal@gcoea.ac.in

No: GCOEA/Physics Department/Purchase /2023-24/373

Date: 16-12-2023

QUOTATION CALL LETTER

Subject: - Quotation for supply of Following Items For the department of Physics

Ref : - Budget of GCOEA for FY 2023-24 is principally approved by in 26th BoG Meeting-8th July-2023

Sir/Madam,

You are requested to quote your lowest reasonable rates for the following items and send the quotation in sealed cover so as to reach the undersigned on or before date:- 27/12/2023

SN	Proposed Item	Specification	Qty. Required
1	Hallow Cathode Tube (HCL)		01 No. of Each
2	Photoflourometer		01 No.
3	Acetylene gas Cylinder with reguleter		01 No.
4	Nitrogen gas Cylinder with reguleter		01 No.
5	Double Distillation Unit	G	01 No.
6	Astrophotography camera lenses	Separate Sheet Attached	02 No
7	Vapour Generator (Hydride Generator) with argon cylinder		01 No
8	Flight controller kit		02 No
9	Catadioptric Telescope		01 No
10	Superconductivity Appratus		01No
11	RC transmitter and Receiver		02 No
12	Air compresser		01No
13	Nanoparticle		
14	Chemicals		
15	Glassware's		

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- Note:- 1. The quotations call letter no, name of the department and last date should necessarily be written on the envelope.
- 2. Please attached with quotation GST Registration Certificate, PAN Card and other necessarily documents.

TERMA AND CONDITIONS

- 1. VALIDITY:- The rate must be valid for 90days from the date of opening of quotations.
- 2. PRICE:- For destination at Government college of Engineering, Amravati.
- 3. DELIVERY PERIOD:- Four weeks from the date of issue of this order.
- 4. ALL TAXES/GST:- Inclusive of all taxes, including installation, delivery, etc charges.
- 5. EXCISE DUTY:- If any, specify
- 6. TAXES:- Rates quoted will presumed inclusive of all taxes unless otherwise stated.
- 7. PACKING FORWARDING, FREIGHT & INSURANCE:- If any, specify.
- 8. INSTALLAION / TRAINING /COMISSION CHARGES:- Inclusive.
- 9. PENALTY:- for late delivery @0.5% of the value of undelivered stores per week.
- 10. SECURITY DEPOSITE:- In case purchase of equipment's cost costing above Rs. 1,00,000/-(Rs. One lakh), a performance bank guarantee for an amount equal to 5% (five per cent) of the cost price for the duration of warranty period will be taken from the supplier/Indian Agent within one week of the acceptance of the purchase order by the firm. This deposit is liable to forfeiture to Government College of Engineering, Amravati, in the event of non-fulfillment of the terms and conditions on which the Purchase order is issued.
- 11. PAYMENT:- 100% payment to be made on inspection, installation and testing of the equipment.
- 12. WARRANTY:- One year against any manufacturing defects.

Department Of Physics
Government College of Engineering

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SN	Proposed Item	Specification						
		Above all suitable for Atonic Absorption Spectroscopy of model						
		HCL	Quantity	Current in m∧	Λ in nm	Slit in nm	Working Range µg/ml	
		Ag	01	3.5	328.1	0.5	0.02 - 10	
		Al	01	10	309.3	0.5	0.4 - 200	
		Zn	01	5	213.9	1	0.01 - 2	
		Ca	01	3.5	422.7	0.5	0.05 - 5	
1	Hallow Cathode Tube (HCL)	Cd	01	3.5	228.8	0.5	0.01 - 3	
	Tube (HCL)	Fe	01	5	248.3	0.2	0.05 -20	
		Pb	01	EDL	270.0	1.0	0.2 - 30	
		Hg	01	EDL	253.7	0.5	2 -600	
		Cr	01	7	357.9	0.2	0.06 - 20	
		Mg	01	3.5	285.2	0.5	0.003 - 1	
		Co	01	7	240.7	0.2	0.06 - 15	
		Na	01	5	589.0	0.5	0.003 - 1.5	
		K	01	5	766.5	1.0	0.03 - 2	
2	Photoflourometer	Light Source- 50W Tungstem halogen lamp, Display- LCD, Maximum sample volume – 4ml, Dtecctor Silicon Photodiode Sencitivity – 0.1ppm						
3	Acetylene gas Cylinder with Reguleter	Laboratory used , 6cubm, Purity-99.9% with regulator						
4	Nitrogen gas Cylinder with Reguleter	Laboratory used, 7cubm, Purity above 95% with regulator						
5	Double Distillation Unit	All Quartz Double Distillation Unit, output capacity 1.5L/hr, power consume 3KW, minimum cooling water requirement 1lt/min, biological activity- pyrogen free, conductivity S/cm-<0.1, Total organic carbon < 500μg/l, organic matter –nil, total solids mg/lit <0.1, distillation temp – 65-75°C, KmnO ₄ colour retention -1hr, Uv absorbance at 254nm-0.007						



	No 1. Compertable for CANON R10 having-RF 100-400mm f/6-8 IS USM lens specificationMount: Canon RF, Full frame: Yes, Lens construction: 12 elements in 9 groups, Diaphragm blades: Minimum aperture: f/32 at 100mm, f/45 at 400mm, Closest focusing distance: 0.88m Maximum magnification: 0.41x, 5.5-stop Optical Image Stabilizer.
Astrophotography camera lenses	No.2. Compertable for CANON R10 having-RF 70-300-mm f/6-8 IS USM lens specification Canon RF, Full frame: Yes, Lens construction: 12 elements in 9 groups, Diaphragm blades: Minimum aperture: f/32 at 100mm, f/45 at 400mm, Closest focusing distance: 0.88m Maximum magnification: 0.41x, 5.5-stop Optical Image Stabilizer.
	VGA 1200ET HYDRIDE VAPOR GENERATOR BASED ON
Vapour Generator (Hydride Generator) with argon cylinder	ELECTROTHERMAL TECHNOLOGY VAPOR GENERATOR ACCESSORY IDEAL FOR PPB LEVEL ANALYSIS OF VAPOR GENERATION ACCESSORY OFFERS AN EXTREMELY SENSITIVE PROCEDURE FOR ANALYSIS OF METALLIC



No.1

Processor-STM32F427, Accelerometer-LSM303D,

Compatibility -Quadcopter, Hexacopter, plane, Helicopter, Octacopter, Rover, Antenna, Custom, Gyroscope-L3GD20, RAM Size-256k, Barometer-MS5611, 32-bit Pixhawk PX4 Autopilot Open Code Flight Controller V2.4.8, 2 bit 1.32 STM32F427 flash Cortex M4, with the floating-point hardware processing unit, 2 main frequency: 256 K, RAM 168 MHZ, 32-bit processor STM32F103 backup co

Sensors:L3GD20 3-axis 16-bit digital gyroscope, LSM303D 14/3 Axis Accelerometer Magnetometer, MPU6000 6-axis accelerometer / magnetometer, MS5611 high precision barometer

Interface:5 UART 1 High Voltage compatible, 2 with hardware flow control, 2 CAN, DSM / DSM-X Spektrum compatible satellite receiver input, SBUS input and output compatible, PPM signal input, RSSI (PWM or input voltage)I2C, SPI, 3.3 and 6.6 VADC inputs, external US MICRO

No. 2

Flight controller kit

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Processor- ATMEGA2560 and ATMEGA32U-2, Input Voltage-12~16 VDC, Sensors - 3-Axis Gyrometer, Accelerometer, High-performance Barometer, Dimensions (LxWxH)7 x 4.5 x 1.5 cm, Arduino Compatible, Atmel's ATMEGA2560 and ATMEGA32U-2 chips for processing and USB functions respectively, Built-in compass, Includes 3-axis gyro, accelerometer, and magnetometer, along with a high-performance barometer, Straight Needle, One of the first open-source autopilot systems to use Invensense's 6 DOF Accelerometer/Gyro MPU-6000., Onboard 4 MegaByte Data flash chip for automatic data logging, Optional off-board GPS, uBlox LEA-6H module with Compass., Barometric pressure sensor upgraded to MS5611-01BA03, from Measurement Specialties.

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10	Superconductivity Apparatus	Learning Objectives/experiments < To measure the transition temperature of a high temperature superconductor. Scope of delivery 4 1 Superconductivity measurement unit 4 1 Bismuth Sample with Four Probe arrangement 4 2 Sensor Cable (mini USB) 4 1 Liquid nitrogen Experiment Chamber 4 1 Data logger with micro USB 4 1 Software CD 4 2 Voltage sensor 4 1 Power Cord 4 1 Liquid Nitrogen Transport container(Optional) Feature 1. Bismuth superconductor with four probe arrangement & thermocouple. 2. Voltage probes for temperature & voltage measurement. 3. Data logger with 100k samples per second capacity. 4. Data Logger with 6 bulit-in sensors 5. Free data analyzing software. Technical data Superconductivity: Constant Current 150mA (max.), 4mm sockets for sample and sensor, Gain & offset pot. Power Indicator LED, Datalogger: Up to 100K SPS, memory capacity 800K sample, Li polymer rechargeable battery, 6 in-built sensor, 4 ext. sensor port (60+ sensor available), connectivity port micro USB, 90.2 x 90.2 x 20mm (LxWxH), 120g Voltage Sensor: ± 25V (AC/DC), accuracy ± 3%, resolution 12.5mV, input resistance > 250 MΩ Sample: Bismuth, 4 probe arrangement, 'T' Type Thermocouple, Aluminium housing, Connection 4mm plu
11	RC transmitter and Receiver	No. 1. Operating Voltage(V) 7.4~18.0V, Operating Current (A) DSSS & FHSS <90mA at 12V, CRSFdepend on the transmission power selection, Freaquency Band 2.4GHz ISM band (2400mHz ~ 2483.5MHz), Spread Spectrum mode DSSS & FHSS/CRSF, Adjacent channel rejections >38dbm, Modulation mode QPSK, Bandwidth 5.0MHz, Signal output PWM/SBUS/PPM/CRSF RC Drone Remote 647g, Receiver Operating voltage 3.0~10V, Receiver operating current 30~45mA@5V, output signal SBUS/SBUS&PWM, Channel quantity 9 channel for PWM signal output; 10 channel for SBUS&PWM signal output No. 2. Model Type Digital Radio Trans receiver, Modulation Type,GFSK, Band-Range (GHz)2.40 ~ 2.48, Sensitivity (dBm),105dbm (Receiver), Bandwidth500, Operating Voltage (VDC), Receiver: 5, Transmitter: 12 Antenna Length (mm) 26, Code Type Digital, DSC Port PS/2 Port PPM, Charging PortYes, Low Voltage Warning Yes(at less than 9V) No. of Channels 10, RF Power Less Than 20 dbm Default Operating Mode Mode 2 (Left-Hand Throttle)

12	Air compressor	5-gal, 175-PSI portable electric air compressor inflates tires and other objects quickly 120-volt, 2-HP induction motor provides extended life and longer use with single fill Oil-free pump reduces maintenance time Two single-handed-operation brass quick couplers allow you to use two air tools simultaneously Steel control panel provides a display area and protects the 2-in metal-cased gauges, couplers and regulator Roll-cage construction provides complete protection to withstand extreme jobsite environments and twin stack design adds air capacity while saving floor space Sliding handle and 8-in heavy-duty rubber wheels offer easy moving and storage Hose management design keeps things from getting tangled or obstructive Large on/off switch knob and lever handle ball valve are used in conjunction with the drain valve for easy operation
13	Nanoparticle	1) CuO 2) ZnO, 3)Al ₂ O ₃ , 4) CeO 5) CdO, 6)AgO, 7)AuO, 8)NiO, 9) TiO ₂ , 10)SiO ₂
14	Chemicals	3) AgNO ₃ , 4) CuSO ₄ , 5) CdNO ₃ , 6) AuNO ₃ 7)TiCl ₃ , 8) Al ₂ (SO ₄) ₃ , 9)CeNO ₃
15	Glasswere	 Micropipettes of volume range 0.5-10μl, 10mm Borosil Screw or widw mouth Vails of clear screw vial with write on patch & Pre-slit PTEE-Silicon septa in a black screw cal Desiccators:Borosil ID Ground Flange-100mm Dishes: BorosilApprox O.D. × height 80×17 Cover Glass: Borosil Square Dimension 18×18, 22×22, 24×24, Cover Glass: Borosil Rectangular Dimension 22×40, 22×50, 22×60, FTO (Conducting) Glass Volumetric flask with stoper – Borosil 100ml, 250ml, 500ml Volumetric flask with stoperamber colour - Borosil 100ml, 250ml, Whatmann filter paper No42

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