

**OFFICE OF THE PRINCIPAL
ANGUL MAHILA MAHAVIDYALAYA, ANGUL**

**No. 869 , Date. 25/08/2022
QUATATION CALL**

Sealed Quotations are invited from the registered and reputed Firm having GST and PAN no. for supply of Lab. Equipments, Chemical and articles for improvement of lab, so as to reach on or before 09.09.2022 by 3:00 pm by Regd. Post. The quotation will be opened on 15.09.2022 at 11:00 am in the office of the undersigned. The authority reserves the right to reject the quotation in whole or part without assigning any reason thereof. The GST and pan certificate of the firm must be attached with quotation. All the Quotationer are requested to remain present in the prescribed date and time. At the time of opening. No transporting charges shall be borned by the authority.

Item wise details can be viewed in college website

(<http://www.ammangul.org.in/>)

Niraja Sahu.
Principal 25.08.2022
Angul Mahila Mahavidyalaya,
Angul
Angul

GN
25/8/22

Memo No.....865...../ Date.....25-08-22...../

Copy forwarded to the Editor, the SAMBAD Angul for publication of the above quotation call notice their esteemed daily.

Niraja Sahu.
Principal 25.08.2022.
Angul Mahila Mahavidyalaya,
Angul
Principal
Angul Mahila Mahavidyalaya
Angul

GN
25/8/22

Angul Mahila Mahavidyalaya, Angul.

Reference: Quotation call notice no. _____ Dt. _____

List of articles required for chemistry dept.

Sl. No	Name of the article	Specification	Qty. required
1.	UV-Visible spectrophotometer (Single Beam) (With accessories)	Manual, 190-1100nm, Resolution -0.1%T, 0.001Abs Bandwidth-0.05 to 2.0nm or with better facilities. Make-Systronics, EI, Esico or equivalent.	01
2.	UV-Visible spectrophotometer (Single Beam) (With accessories)	Manual, 200-1000nm /1100 nm Resolution -0.1%T, 0.001Abs Bandwidth-0.05 to 2.0nm or with better facilities. Make-Systronics, EI, Esico or equivalent	01
3.	UV-Visible spectrophotometer (Single Beam) (With accessories)	Micro Controller based ,200-1100nm, Resolution -0.1%T, 0.001Abs Bandwidth-0.05 to 2.0nm, PC link printer port or with better facilities. Make-Systronics, EI, Esico or equivalent	01
4.	Colorimeter	Manual, Measuring - %T & Abs, Concentration factor & K- factor, Display- 2line 16 character LCD, Optical filter (400-700 nm), resolution-0.1%T, 0.001 to 1.999 Abs with Printer port & data storage memory facilities Make- Systronics, EI, Esico or equivalent	01
5.	Digital balance	Readability / precision -0.01gm , Capacity about 600gm.	01
6.	Battery for WENSAR Digital balance	Wensar Model no-PGB600	01
7.	Burette stand	Synthetic, Heavy base, White, Double clamp with filtration ring Make-Harpal, Lab world, Spylx or equivalent	10
8.	LED Monitor for Destop Computer	HP, TFT19"	01
9.	Almirah	Official (Without locker) 6'.5 "x 3'.5"x 18" , 20 gaze iron sheet, Metallic paint	02

N.B.: -Quotation must be submitted in the above format for all items serially from item no 01 to 09 .
In case the firm donot want to quote for any item, "Not applicable" should be mentioned under specification coloum against the item.

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14/3/22

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Principal
Angul Mahila Mahavidyalaya, Angul

Zoology Department

Equipment Required

Sl. No.	Name of the Article	Specification	Qty. Required
1	ZOOM Stereoscopic Trinocular Microscope with Smart Camera, Scanning and Viewing Arrangement	WES WOX ZOOM Inspection Microscope	01
2	Olympus Compound Pathological Microscope	ESAW. Students Binocular Microscope	05
3	Olympus Compound Microscope	Labomed Vision 2000 (Halogen) Binocular	02
4	Olympus Simple Microscope		05
5	Laptop	HP Pavilion Aero, Ryzen-5, 16 GB/512 GB, SSD-13.3 inch, Wuxga laptop, Ultra-thin & light Latest Version	01
6	Printer with scanner	HP-M1-005	01

Dr. Bithnu Charan Pradhan

Reader in zoology

H.O.D. zoology.

X. Sanku Sah.
Principal,
Angul Mahila Mahavidyalaya
Angul

Mathematics Department

Equipment Required

Sl. No.	Name of the Article	Specification	Qty. Required
1	Desktop Computer DELL	Windows-10, 8GB RAM, 512 GB-SSD/2 GB Graphic Card	03
2	Monitor		03
3	UPS	600 VA	03
4	Laptop <i>DELL</i>	Windows-10, 8GB RAM, 512 GB-SSD with Graphic Card	01
5	Mouse		01
6	Key Board		03
07	Antivirus for 4 Device		
08	Router, WIFI Receiver		06
09	Cable		
Accessories			
01	Computer Table		06
02	Computer Chair		06
03	Almirah		01

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24/05/2022
Principal
Angul Mahila Mahavidyalaya
Angul

Botany Department
Equipment Required

Sl. No.	Name of the Article	Specification	Qty. Required
1	Biological Microscope	Olympus CH20i	01
2	Biological Microscope	VL Olympus	02
3	Computer Printer (HP)	M329 Dw, Laser Jet Pro	01
4	Computer Scanner	(HP Pro MFP)	01
5	Computer Desktop	HP	01
6	Soil Thermometer	Stainless Steel (Lawn & Patio)	02
7	Induction Cooker	Bajaj	01
8	Spring Bance	Round Metal Generic	01
9	Autoclave 12" X 12"	Laboratory Deal	01
10	Projecting Microscope	METZ - 401 125X - 1000X	01

Sudha Mohanty
H.O.D in Botany

Naraja Lal
24.08.22
Principal
Angul Mahila Mahavidyalaya
Angul

ANGUL MAHILA MAHAVIDYALAYA, ANGUL
DEPARTMENT OF PHYSICS

SL NO	Name of Experiment With Technical Specification	Make
1	<p>To verify the law of Malus for plane polarized light - Complete System</p> <p>Technical Specification: OPTICAL BENCH, - Must have Black Ionised Material : Aluminium Coating, Type : Circular section, Scale : 0-150cm, Least count : 1mm, Length : 1mtr, POLARIZER / ANALYZER, Angle : Adjustable (0°-90°), Aperture : 21mm dia. Frame : 130mm dia., Rod : 10 mm dia. DETECTOR: Detector : Terminals : 4mm safety socket, Aperture : 1 mm , Rod : 10 mm diameter, Voltmeter : 0-20V</p>	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
2	<p>To determine the specific rotation of sugar solution using Polarimeter. Complete System</p> <p>Technical Specification: POLARIMETER TUBE: Length : 200mm with central bulb, metallic cap & cover glasses packed in a velvet case , LAURENT'S HALF SHADE: Circular scale : 0°-360°, Least count : $1'$ Vernier Reading : 6 min, Dimensions : Dia 12mm, length 200mm OPTIONAL ESSENTIAL ACCESSORIES: Sodium light source , Starting Voltage : 470 Volts, Input Voltage : 220V, 50Hz, Lamp House ; 300x85mm(LxΦ), Aperture dia : 25mm, Sodium Light Transformer</p>	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
3	<p>To verify the Stefan's law of radiation and to determine Stefan's constant. (Heat Radiation Method) - No Trainer Kit Model</p> <p>Technical Specification: Stefan's Constant radiation Apparatus on stand with black & silver disc Cu-Cn-Cu thermocouple on a rigid insulated board with two junctions in cotton wool. Oil bath with mustard oil, capacity 100 ml. Fuel for spirit lamp 2 x 100 ml. Spirit lamp on adjustable stand. Cotton wool in a cylindrical copper enclosure on the stand for junctions of cu-cn thermocouple. water bath copper, Super sensitive micrometer as galvanometer fixed on board. Steam boiler 2 liter. Capacity with plastic tubing with pinch cock. Hot plate thermostatic controlled single phase (8"). Two mercury thermometer 110 ' C for black body appt. One mercury thermometer 360 ' C for oil both. One 250 ml glass beaker , one plastic funnel. Two spiral connecting wires with connectors. Steam boiler 2 liter. Capacity with plastic tubing with pinch cock. Hot plate thermostatic controlled single phase (8"). Two mercury thermometer 110 ' C for black body appt. One mercury thermometer 360 ' C for oil both. One 250 ml glass beaker , one plastic funnel. Two spiral connecting wires with connectors</p>	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
4	<p>To determine value of Boltzmann constant using V-I characteristic of PN diode. - Complete</p> <p>Technical Specification: Digital DC Voltmeter to measure the voltage across the diode. Highly stabilized variable D.C. power supply (0 - 2Volts). Digital Milliammeter to measure forward bias current in diode.</p>	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
5	<p>To Measure the Dielectric Constant of a Dielectric Materials with frequency (Resonance Method)</p> <p>Technical Specification: Actual capacitor : 18pf, 13pf, 10pf, 8pf Test capacitor without dielectric : 80pf, 88pf, 91pf, 94pf, Test capacitor with dielectric : 25pf, 46pf, 60pf, 70pf, High Frequency Oscillator : 100KHz Gang Condenser : 0 to 180°, The unit is compiled on a Hylem Board</p>	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
6	<p>Cathode Ray Oscilloscope with 10x Probe</p> <p>Technical Specification: 50MHz Dual Trace Dual Channel 1mv Sensitivity, CRT Type: 6-inch rectangular with internal graticule 8x10div (1div=1cm). Bandwidth : X1 - DC (AC 10Hz) ~20MHz (-3dB) Mode: Ch1, Ch2, Dual (Alt/Chop) Add, Ch2 INV with 1:10 x probe 1 Pair.</p>	OMEGA JAIPUR/ METRAVI/ SCIENTIFIC

7	To measure the resistivity of a semiconductor (Ge) crystal with temperature by four-probe method Technical Specification: FOUR PROBE ARRANGEMENT Oven (up to 200°C), Thermocouple Sensor (With Probe), Sample : Ge Crystal mounted, Thermometer (0-200°C), Four Probe Setup, Output Brought Out Through 4mm Banana Plugs, Constant Current Power Supply 20mA, OPTIONAL ESSENTIAL ACCESSORIES Digital Temperature Meter & Digital Multimeter	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
8	To determine the Hall coefficient of a semiconductor sample. (Advance Compact Model) Technical Specifications : ELECTROMAGNET - Made of soft iron, specially design for Hall Effect experiments, mounted on a wooden base for stable performance, Pole pieces :- 50mm dia. tapered type Field :- 7.5kg at 10mm. air gap, Energizing Coils :- Two coils each with total resistance of 9 ohms (approx). DIGITAL POWER SUPPLY FOR ELECTROMAGNET - 0-6Amp, 60V digital display, It is a constant current power supply, with long time operation and continuously variable current. DIGITAL GAUSS METER: Range: 0-2 K Gauss & 0-20 K Gauss, Resolution: 1Gauss at 0-2 K Gauss Range, Accuracy: $\pm 0.5\%$, Display: 3 1/2 Digit, 7 Segment LED, Power: 220V, 50Hz Special Feature: Indicates the direction of the Magnetic field. Gauss Probe CONSTANT CURRENT POWER SUPPLY: (i) Digital Mill voltmeter Range: 0-200mV/2000mV (100 μ V minimum) Accuracy : $\pm 0.1\%$ of reading ± 1 digit, (ii) Digital Mill Ammeter Range : 0-10mA/20mA Accuracy : $\pm 0.1\%$ of reading ± 1 digit, (iii) Constant Current Power Supply Current : 0-20mA Resolution : 10 μ A Accuracy : $\pm 0.2\%$ of the reading ± 1 digit, Load regulation : 0.03% for 0 to full load Line regulation : 0.05% for 10% variation	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
9	To test diode & Transistor Using Multimeter Technical Specification : Display : Big LCD Display Minimum 6 Cm , Capacitance Range (F) : 0 - 2n/ 200n/ 2u/ 200uF DCV : 6V to 100V, ACV : 600mV to 100V, Resistance : 400 Ω to 40M Ω , Capacitance : 50nF to 100 μ F, Frequency : 50 Hz to 100Khz, Temperature : 0°C to 400 °C , Continuity Test , Auto Power Off	FLUKE/RISHAB/ METRAVI
10	To design a switch (NOT gate) using a transistor. Technical Specification: Data Switch : 0-5V-2nos, LED Indication : LED (RED)-2nos, Transistor : BC547, Resistor : 10K-2nos, DC Supply : 5V	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/
11	To verify and design AND, OR, NOT and XOR gates using NAND gates Technical Specification : Inbuilt Oscillator, Regulated DC Supply: + 5V/1 Amp. Logic Input Switches (Bounce less) - 4 Nos., LED Indicators (buffered) - 4Nos. IC7400-6nos	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/
12	Half Adder, Full Adder and 4-bit binary Adder & Half Subtractor, Full Subtractor, Adder-Subtractor using Full Adder I.C Technical Specification : DC Supply : +5V/250mA (Fixed) , Data Switch : 0-5V-8nos, LED Indication : 8nos, Quad 4 IC7846 : 3nos, Quad 4 IC7404 : 2nos, Quad 4 IC7432 : 1no, Quad 4 IC7483: 1no	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
13	To build Flip-Flop (RS, Clocked RS, D-type and JK) circuits using NAND gates Technical Specification : DC Supply : +5V/250mA (Fixed) Data Switch : 0-5V-4nos , LED Indication : 2nos, Clock Pulse : High & Low Quad 4 IC7846 : 3nos, Quad 4 IC7404 : 2nos, Quad 4 IC7432 : 1no Quad 4 IC7483: 1no	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
14	To design an astable & monostable multivibrator of given specifications using 555 Timer Technical Specification : DC Supply : 5V, IC : NE555, Led Indicator : 2nos, Resistor : 100K Ω -2nos, 10K Ω -2nos, 1K Ω , Capacitor : 1 μ F, 0.1 μ F-2nos, 0.01 μ F-2nos, 10 μ F, Variable Resistor : 5K Ω Optional essential accessories: 20MHz Dual Channel Analog Oscilloscope	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB

15	To determine the Planck's constant using LEDs of at least 4 different colours. Technical Specification: DC Supply :0-5V/150mA, DC Voltmeter : 0-5V Ammeter: 0-2000 μ A, LED : RED-630nm, YELLOW-578nm, BLUE-436nm, GREEN-546nm	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
16	To determine the value of e/m by (a) Magnetic focusing Technical Specification: To study charge of an electron by using Magnetic Focusing method. Kit comprises of High voltage Power Supply with intensity, focus X, Y deflection & Solenoid current controls. Two meters provided for acceleration voltage & for solenoid current controls. One 3" CRT mounted on Teak Wood Stand & a Ring Type Solenoid slides over the CRT. Dimension 13"x8"x4".	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
17	To show the tunneling effect in tunnel diode using I-V characteristics Technical Specification: Inbuilt Fixed DC regulated power supply DC Voltmeter : 0-600mV, DC Ammeter : 0-50mA, Tunnel Diode : IN 3717	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/
18	To design an inverting amplifier using Op-amp (741,351) for dc voltage of given gain & its Frequency response. Technical Specification: Signal Oscillator, DC Supply :+12V & -12V Fixed, DC Supply : 0-5V Variable, Resistor : 1K Ω -2nos, 10K Ω , OpAmp-IC741, DC Voltmeter : 0-5V-2nos, Display : 3 1/2 Digit Optional Essential Accessories Cathode Ray Oscilloscope, Signal Generator	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
19	To study the zero-crossing detector and comparator Technical Specification: DC Supply :+15V & -15V Fixed, DC Supply : 0-10V Variable, Resistor : 10K Ω -2nos, Diode :1N4007-2nos, OpAmp-IC741-2nos, Optional Essential Accessories:Cathode Ray Oscilloscope	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
20	To investigate the use of an op-amp as an Integrator & Differentiator. Technical Specification: DC Supply: +12V & -12V Fixed, AC Signal: 10KHz, AC Voltage:1V, OPAMP-IC741, Resistor : 1K Ω , 10K Ω -2nos, 100K Ω -2nos, 1M Ω , 10M Ω , Capacitor:0.01 μ F-2nos, 100pF Optional Essential Accessories: Cathode Ray Oscilloscope, Signal Generator	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
21	To study Lissajous Figures Technical Specification:Function Generator-2nos, Function: Sine, Square, Triangle, Frequency range :0.1Hz to 200KHz, Amplitude :20Vpp, Frequency Multiplier :.1 to 10K in decade step, Opamp-IC 741 Optional Essential Accessories: Digital Oscilloscope	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
22	To determine the coefficient of thermal conductivity of Cu by Searle's Apparatus. Technical Specification:Searle's Thermal Conductivity Apparatus Thermometers (1/10 $^{\circ}$ C) - 4nos, Constant Level Tank, Steam Boiler with Heating Arrangement, Rubber Tubing, Measuring Flask	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
23	To determine mechanical equivalent of heat J by callender and barne's constant flow method. - (Complete System including 3A Power Supply with Other Aecessories) Technical Specification : Calendar and Barn's continuous flow calorimeter, AC Ammeter : 0-3A (Moving Coil), AC Voltmeter : 0-10V (Moving Coil), Thermometers : 10 $^{\circ}$ C to 100 $^{\circ}$ C -2nos, Measuring cylinder : 0 to 100mg, DC Supply : 2V to 12V/3A, Three Flow Water containg	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB
24	To analyze elliptically polarized Light by using a Babinet's compensator. Technical Specification:Babinet Compensator, White Light Source (Lamp), Quarter wave plate, Polariser, Analyser, Eye piece with Light Source	OMEGA JAIPUR/ INDOSAW/ SPANCOTEK/ AELAB

reflection using a Gaussian eyepiece.

Technical Specification: SPECTROMETER-30 Second Scale: Brass, dia. 150mm,
 Objective: Achromatic lens, $f = 178\text{mm}$, Aperture 32mm, Slit: Brass with micrometer,
 Reticle : 90 cross etched on glass, Least count: 1 minute, Eyepiece: 10X, Gauss
 eyepiece, Vernier: 2 verniers (0-30div) in-built magnifier, Base: 190mm Triangular,
 Cast iron, Special Features : Manufactured on CNC machine. Illumination device for
 cross wire, adjusting screws for lateral & height adjustment, SODIUM LIGHT
 SOURCE-Starting Voltage : 470 Volts, Input Voltage : 220V, 50 Hz, Lamp House :
 300x85mm(LxØ), Aperture dia. : 25mm, PRISM-Size : 38 x 38 x 38 mm., Height :
 38mm, Material : EDF, MICROMETER SLIT-Pitch : 0.5 mm., Least Count : 0.005 mm.,
 Range : 0 - 6.5 mm., Diameter : 38 mm approx.

OMEGA JAIPUR/
 INDOSAW/
 SPANCOTEK/
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26	Lenovo Legion 5 Core i7 10th generation - (16 GB/512 GB SSD/Windows 11 Home/4 GB graphics/NVIDA Ge Force GTX 1650/120 Hoz) 15 IMH 05gaming laptop (15.6 inc, Phontom black, 2.3 KG)	Lenovo
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Note- Company Leaflet / Complete Technical Catalog must have attached against each Product without technical Catalog, Items not being considered for technical evaluation. If Any doubt persist department may ask for Product Demonstration.

Dillip Kumar Mohapatra
 Lecturer & Head Department of Physics
 Angul Mahila Mahavidyalaya, Angul

Dillip Kumar Mohapatra

Niraja Sah.
 Principal
 Angul Mahila Mahavidyalaya,
 Angul