



DR. PANJABRAO DESHMUKH KRISHI VIDYAPEETH, AKOLA
COLLEGE OF FOOD TECHNOLOGY

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No. COFT /Lab./Ytl/ 301 /of 2022

Date : 04/08/ 2022

QUOTATION NOTICE

To,

Subject: Quotation for supply of Laboratory Instruments/Equipments

Interested parties/suppliers are requested to submit quotation for the following on or before 18/08/2022 upto 14.00 pm in office working days and the quotation will be opened at 15.00 hrs on the same day.

SN	Machineries/ Equipment's	Standard Specifications	Qty
1	Muffle Furnace	Construction: Outer Body made of Mild Steel powder coated. Inner Body made of ceramic Muffle insulation: Special type ceramic Insulation between body for Insulation. • Temp Range: 40°C to max 115°C. • Sensor: 'K' type calibrated sensor Size: 9x4x4 23x10x10 cm Note: Essential SPARE CRUCIBLE FOR BUNSEN BURNER.	1
2	Cyclomixer	Cyclo Mixer with brushless motor & suitable for interchangeable mixing Heads (Unit Supplied with CM-01, CM- 01/01/, Cm-01/02 & Cm-01/03)	1
3	Magnetic stirrer with hot plate	Hot plate Magnetic Stirrer Maximum Volume : 500 to 1000 ml Speed : 100 to 1000 rpm Minimum Revolution : 100 rpm Maximum Temperature : 380°C Plate Load : 3 kg Setting Mode : Scale Motor Power : 10 W Heating Power : 0.18 kW Power Supply : 110 V or 220 V , 50/60 Hz Plate Dimension : 120×120 mm Exterior Dimension (W×L×H) : 200×120×90 mm Packing Dimension (W×L×H) : 250×180×120 mm Net weight : 1.9 kg Gross Weight : 3 kg	1
4	Digital pH meter	Range: pH: 0-14 pH, Temp. 0.1-55°C / 32-130°F, Accuracy: +0.1pH, Calibration : Automatic in pH4.7 or 10 with the tune digital calibration by push button, Power : 2 x AAA, Size: 18.5 x 3.4 x 3.4 cm (7.3 x 1.3 x 1.3 inch), Weight 127g/4.5 oZ	1
5	Heating Mantles	500-2000 ml, 450 Watt 1 circuit	1
6	Hot Plate Round	Construction of body made of M.S powder Coated & top made of heavy cast iron plate for long lasting life Special spring type of beaded coil fitted in plate for uniform temperature on plate. Maximum Surface temperature up to 300°C. 10" x 12"	1
7	Digital Photo colorimeter	•%T & Abs. • Display : 3 Digit LED • 1ml Sample volume • Light source : White LED • Eight Optical filters on a turret to cover 400 – 700 nm	1

8	Water Bath (Circulating)	Double Walled filled with high grade glass wool insulation between the two chambers Outer Chamber made of M.S with powder coating and Inner chamber made of Stainless Steel. Temp. Controlled by thermostatic. Temp. Range 5°C above ambient to 99°C. Supplied with 7.5 cms concentric Ring. 35 x 25 x 10 cm 6 Hole Outer.	1
9	TLC Plate	TLC Plate Size- 20 x 20 cm, (1Pkt containing 25 sheets)	1
10	Paper for paper chromatography	Paper Chromatography Cabinet. Ascending or Descending, made of teak wood and glass construction. It can accommodate two (troughs) and six glass rods. Cabinet size : 60x30x60 cm. approx for 4 filter papers of 46x57 cm. Size	1
11	Chromatography Chamber	Size 24x24x12 inch	1
12	Desiccators	Desiccators Plain with knobbed lid, Ground Flanges Neutral Glass, with Perforated Porcelain Plate. Model-1 Dia. 160mm. Model-2 210 mm, Quantity :- 160ml -02 numbers, 210 ml- 01 numbers	03
13	Soxhlet Apparatus	Useful for quick heating which save extraction time Heating Box fitted with Mantles Housing made of M.S./G.I sheet duly finished in epoxy powder. Control panel is separate but attached to the heating box. Wide range of capacity and flask recesses for selection Two vertical & two horizontal rods with boss heads for necessary clamping of rods. With individual Energy regulator (Mantle Type) for 6 tests with Glass Parts 1. RBF 250ml – 06 Pcs 2. Soxhlet 100ml – 06 Pcs 3. Bulb Condenser – 06 Pcs 4. Rubber Tubing -10 Mtr 5. Rod, Boss Head & Clamp	1
14	Micro kjeldhal unit	Measuring Range : 0.1 mg-200 mg N Analysis Time : 5-10 min/sample Water Consumption in the Distillation Process : 1.5 l/min Sample Capacity : Solid : ≤ 5g/sample; Liquid: 20 /sample Burette volume : 2.0µl/step Recovery : ≥ 99.5 % Reproducibility : Average value relative error ± 0.5% Data Storage Capacity : 1000 groups Power Supply : AC 220 V ± 10%/ 50 Hz Power : 2 kW Dimension : 455 x 391 x 730 mm Net Weight : 38 kg	1
15	Laminar Flow Unit	The body is constructed in double walled M.S. The work table is made of stainless steel 304 grade. All joints are sealed with scholastic sealant. Transparent front and side panels of UV resistant Polycarbonate sheet fully transparent fixed with clamps. The unit is fitted with per-filter and is made to pass through highly effective HEPA (High Efficiency Particular Air) filter having efficiency rating as high as 99.97% with cold, DOP, thus retaining all air-borne particles of size : 0.3 micron and larger. Using a dynamic machine, the blower and motor assembly ISI marked is statically and dynamically balanced. Blower Assembly with high RPM motor, enclosed in an SS casing suitably suspended in a pair springs & connected to the filter chamber through flexible canvas duct Blowers are mounted on vibration isolation mounts to Minimize vibration and possess noiseless operation. Height of the working table provides comfortable "Sit Down" working position for the operation to work on 220/230 volts AC. Supply 01. Individual controlling switch & indicator for blower, UV and fluorescent tubes. Technical Detail : Working Size : 3ft x 2ft x2ft (WxDxH), Table : SS 304 grade Platform,	

		Pre Filter : Media Synthetic, non-woven polyester fibers (2 nos) 3ft x 2ft x6"of 10 micron HEPA Filters : Media Ultra clean glass fiber paper - imported down to 0.3 micron HEPA size : 3ft x 2ft x 6" (2nos), Retention : 0.3 Micron, Efficiency : 99.97%, Air Flow : Horizontal, Door : UV resistant polycarbonate door in front facia with magnet lock, Add on feature: Provision of cock (air , vacuum) 1, UV tube : 1x15W Philips, Fluorescent tube: 1x15W Philips, Blower Assembly :DIDW type ISI marked assembly motors), Leg Levellers : To adjust by +/- 10 mm, Noise level : >= 65 DB, Manometer : 0-100 mm, Power :220- 230 Volts, 50 Hz Single Phase, Micro proser based controller with UV light and florescent light and blower sapped controller.	
16	Digital thermometer	Operating temperature -20 to +60°C Storage temperature -30 to +70°C Protection class IP67 (with attached included probe and TopSafe) Measurement rate 2 measurements per second Dimensions 140 x 60 x 24.5 mm (without probe)	1
17	Digital Vernier Calliper	Size 150 mm	1
18	High Precision Digital Balance	Capacity 510 g, Pan Size 128x128 mm, Readability 0.001g (1mg), Min. (Capacity) 0.1g, Display LCD, Response Time 4-5 sec., Operating Temp. 15°C to 30°C, weighing chamber height 195 mm.	1
19	Weighing Scale	Capacity-50 kg, 0.1 gm Pan Size : 275 x 220 mm	1
20	Gerber butyrometer	Milk butyrometer : Scale part capacity: 1.125mL,Scale pieces: 90 pieces, Body diameter: φ24.5mm, Length: 195mm, One tick marks: 0.0125 mL, Package size: 40×210×30 mm, 70 g	1
21	Gerber Centrifuge	Capacity 24 Test, Voltage 150 -250 V, Power Source Electric, Test Time 3-5 Min.,	1
22	Alcohol Hydrometer	Automatic, Range/ Reading 0-200 deg proof, to determine the alcohol content of wine and distilled spirit	1
23	Ball Mill	Cap. 1 kg FHP geared motor with max. speed of 80 RPM with interchangeable Jars. Workable on 220 / 230 volts A.C. Capacity 1 Kg.	1
24	Digital TDS Meter	TDS-3 Specification : ATC Yes Calibration screw type Digital size 15.5x 3.1x 2.3 cm (6.1x1.25x1 in) weight 76.5 gm.	1
25	Wet and dry Bulb thermometer	An instrument used to measure the relative humidity of the atmosphere. It consists of a thermometer with a bulb that is wet or moist and one that is kept dry. The relative humidity is calculated from the difference in readings of the thermometers when water evaporates from the wet bulb, decreasing its	1
26	Hand Refractometer	Range- 0-32 ⁰ Bx, 28-62 ⁰ Bx and 45-82 ⁰ Bx Min. Div. - 0-32 % , Accuracy- + 0.20 % , S.S. Body, Clear & Bright Scale, High Quality & Accurate Testing Result, Packed in Leather Case (U Tech) Range 28 to 62% & 45- 82%	3
27	Centrifuge Machine	Revolutionary General Purpose Laboratory Centrifuge (max. speed 5250 rpm) with speed regulator, safety lid lock, digital speed meter & timer, but without rotor heads and accessories.	1
28	Sieve	Only Laboratory Sieves Size – 200 (0.0075 mm), 140 (0.106 mm), 100 (0.15 mm), 60 (0.25 mm), 40 (0.42 mm)	1
29	Noodle & Pasta Machine	Material- Plastic, Item Weight-5.3 Kilograms, Item Dimensions LxWxH- 34 x 22 x 28 Centimeters, Included Components- Noodle and Pasta Maker-01, Shaping Dies-01, Measuring Cup-01, Flour Cup-01, Cleaning brush-01, Instruction Manual-01 Noodle and Pasta Maker-01, Shaping Dies-01, Measuring Cup-01, Flour Cup-01, Cleaning brush-01, Instruction Manual-01, Operation Mode- Automatic	1
30	Popcorn Machine	Automation Grade: Automatic. • Power Source: Gas., Material: m/s panel & standard steel. • Production Capacity: 500.0 grams per batch. Capacity: 500gm. • Power Consumption: gas.	1

		• Operation: Battery Operated.	
31	Lab Oil Expeller	Type-Cold Press, Motor power-0.25HP, RPM-56 Rotation per Minute, Capacity 2-5 kg/hrs weight-12kg, size 20x8x10 inch	1
32	Cream Separator	Milk Cream Separator capacity 60 lit Tank Capacity : 5 Litre, Motor: 0.25 hp, Disc: 11 ss disc, Body All M.S.	1
33	Ice-cream making machine	1.5 Lit, Modern Design Ice Cream, Sorbet, Slush & Frozen Yoghurt Maker. Include double insulated freezer bowl with integrated cooling liquid.	1
34	Paneer Press	Capacity 10 kg	1
35	Meat mincer	SS Made	1
36	Food Processor	Juice and pulp extractor, vegetable cutter	1
37	Deep Fryer machine	Double Deep Fryer: SS 304, Shape Rectangle, Voltage 240 V, Oil Capacity 18 Liters, Tank Capacity 24L Liters, Basket Size 210 x 280 x140 mm , Material SS	1
38	Distillation Unit	PURITY : 3-3.5 micro semen, temperature: 5 ^o c higher than supply water, water input quality: dm water, pressure of inlet water: 2 to 5 bar (30 - 70 psi), power : 230 vac , 50 hz , moc : 304 SS argon weld, inlet water flow : ball valve regulator.	1
39	Crown corking machine	Dimensions: L= 200 mm; W= 160 mm; H= 595 mm (8" x 6.3" x 23.4") Weight (Without packing): 7.5 kg (16.5 lbs.). Compatible Material: Glass and Chrome. The crown cork is placed into the MS die and is held in place by a magnet. Flexibility in accommodating various kinds of bottle types. Very easy to use with negligible set up time.	1
40	Bakery Moulds with accessories	Material: SS food grade. All sizes have tapered bottom of 5 mm for fabricated bread boxes, Smooth edges, Anti-corrosive, Fine finish, High strength.	
		Bread Mould	1
		Cookies baking tray	1
		Toast mould	1
		Pav mould	1
		Cake sponge tray	1

While quoting the prices, the instructions on the overleaf may please be noted carefully.

- 1) The quotation should be sent in two Bid sealed envelopes (Technical Bid and Price Bid).
- 2) On the envelope following should be clearly mentioned in block capital letters : Submitted to the - **Office of Associate Dean, College of Food Technology, Waghapur Road, Yavatmal 445001.**

QUOTATION FOR 'Lab Equipment/Food Processing Machinery'.

ENQUIRY LETTER No No. COFT /FPM/Ytl/ /of 2022 Date : 04/08/ 2022

- 3) Quotation should reach to this office on or before due date **18.08.2022 upto 14.00 hrs.**
- 4) Quotations will be accepted on all working days between and will be opened on the last day of receiving quotation at **15.00 hrs** in the chamber of undersigned.
- 5) The quotation will have to be inclusive all (i.e. inclusive of all taxes, octroi, tariffs, expenses) at College of Food Technology, Yavatmal (Dr. PDKV) with installation and demonstration.
- 6) Time period for which the quotation will be valid should be clearly mentioned. Further, the **Validity period should be at least 12 months or till March, 2023.** Quotations of lesser validity are liable to be rejected.
- 7) The undersigned reserves full right to reject any or all the quotations without assigning any reason Thereof or part of items.
- 8) The material will have to be supplied as per specifications within 15 days from the date of issue of the supply order or as indicated in the order with instrument against Warranty and Guaranty letter for one year.
- 9) In the event of failure to supply the material within the specified period, the undersigned will be authorised to cancel the order for supply.

- 10) Papers or copies should be submitted as required in the Technical Bid in a separate envelop mentioned in on the envelop as "Technical Bid"
 - i) Registration for MSME.
 - ii) Shop Act Registration.
 - iii) Quality Certification of vendor ISO certificates : ISO-9001, ISO-14001 and ISO-18001.
 - iv) Copy of Green Guard certificate.
 - v) PAN card.
 - vi) Income Tax return for last three years.
 - vii) GST certification.
- 11) The payment of bill will only be made after satisfactory compliance of complete order, and Conditions such as full or partial payment in advance will not be acceptable.
- 12) Leaflet should be provided along with quotation without leaflet quotation will be rejected.

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Associate Dean
College of food Technology,
Yavatmal