

Matter for publishing in the Spices Board's Website

SPICES BOARD

(Ministry of Commerce and Industry, Govt of India)

Sugandha Bhavan, NH By-pass, Palarivattom, Kochi -682 025.

Qlty/2(1)07

01.10.07

QUOTATION NOTICE

Sealed competitive quotations in the name Secretary, Spices Board, Sugandha Bhavan, Cochin; are invited from the suppliers of reputed brands of the following **Lab Equipments** required for the Board's Lab being set up at **Mumbai**.

The rates for the equipments with all necessary accessories and spares as detailed in the specification should give break up of **cost ,excise duty/sales tax/VAT, packing and forwarding charges, freight ,insurance etc(as applicable)**. If the rates quoted do not include sales tax/excise duty or any other taxes/charges ,the same should be specifically stated.

Sl. No	ITEM**	Nos.	MAIN REQUIREMENTS*
1	AUTO CLAVE	2 Nos	50 Liters, Pressure 1 to 1.5 kg/sq cm, temperature up to 140°C (adjustable) in steps of 1°C
2	HOT AIR OVEN	3 Nos	125 Liters ,accurate thermometers up to 200°C, with sensitivity $\pm 2^\circ\text{C}$.
3	INCUBATOR	1 No	336 Liters with digital temperature controller ambient to 70 °C with sensitivity $\pm 0.5^\circ\text{C}$.
4	B O D INCUBATOR	1 No	112 Liters with digital temperature controller 5 °C to 50 °C with sensitivity $\pm 0.5^\circ\text{C}$.
5	WATER BATH(HIGH PRECISION)	3 No	25 Liters , ambient to 100°C sensitivity $\pm 0.1^\circ\text{C}$
6	MUFFLE FURNACE	1No	1000°C working temperature 900°C, Accuracy $\pm 5^\circ\text{C}$, L.C 1°C.
7	FUME HOOD	1No	Floor model Work area 560DX1500WX 940H(mm) 38mm exhaust fan
8	LABORATORY SHAKER	1 No	Speed RPM 50 To RPM 250, to work continuously for 20 h
9	BIOSAFETY CABINET LEVEL II	1No	Work area 118WX64DX64H(cm) Interior made of stainless steel

*For detailed specification see annexure – 1(Encl.)

**Instrument must be accompanied with instrument manual & calibration certificate by NABL accredited agency where relevant

The cover containing the quotation should be super scribed **“Quotation for Lab Equipments for Mumbai lab due by 15.10.07 ”** and should be send to **The Secretary, Spices Board, Sugandha Bhavan, NH By-pass, P.B No.2277, Palarivattom, Kochi - 682 025.**

Late quotations will not be accepted. The quotations will be opened in the presence of bidders or their authorized representative who may be present at the venue and time.

Last date & time for the receipt of quotations	15.10.07 (5 PM)
Date & time of opening the quotations	16.10.07 (11AM) (next day)
EMD	2% of quoted value by DD drawn in favour of Secretary, Spices Board payable at Cochin, wherever the cost of the equipment is above Rupees One Lakh.

Quotation should give detailed specifications of equipments on offer, brand name, terms & conditions of supply, guarantee/warranty period(preferably two years), after sales service details, delivery period, the customer list including name of contact persons with telephone no./E-Mail ID etc. A statement of compliance with specifications should accompany the quotation . Onsite training of personnel if required, is to be conducted immediately after installation of the equipment.

The quotations should be submitted at its lowest rate along with statement of compliance with technical specification. Clarification if any, can be had from Senior Scientist(QC),Quality Evaluation Laboratory, Spices Board or e.mail to ssqc@indianspices.com

The delivery of the equipment shall be made at Board's Lab at Vashi,Mumbai within 30 days on receipt of the order.If however ,it is not possible to effect delivery by the due date, the date by which the delivery of the equipment can be effected may also be stated.Full payment will be made only after satisfactory installation of the equipment at the site.

The Spices Board reserves the right to accept the quotation in full or in part or to reject without assigning any reason.

Sd/-
Secretary

Encl. annexure-.1.

1. **AUTOCLAVE**

1.	Features	Vertical type. Inner chamber and lid made of stainless steel. Radial locking system. Pressure gauge thermometer safety valve, release valve , Water level indicator, stainless steel basket, water outlet, mains indicating lamp, paddle lifting device. Automatic low water cut-off device.
2.	(a) Capacity (b) Pressure	50 liters 1 to 1.5 kg/sq. cm
3.	Temperature control and display	Up to 140°C – adjustable in steps of 1° C, digital type thermometer with timer . There should be provision for monitoring inside temperature
4.	Power Supply	230+/-10 Volts. 50 HZ. Single phase
5.	Installation&commissioning will be the responsibility of the supplier	
6.	Surface	Complete Made of stainless steel, 304 quality.
7.	STANDARD:	Instrument must be accompanied with calibration certificate by NABL accredited agency

2. **HOT AIR OVEN**

SI No	Particulars	Minimum Specifications
1.	Internal size	455 x 455 x 605mm, 125 Ltrs.
2.	Door/Shelf	Single door with 2 wire mesh shelves constructed to give uniform and adequate sterilizing temperature range adjustable up to 200°C With digital temperature display
3.	Material	Door fitted on heavy brass chrome plated hinges
5.	Insulation	Insulation: minimum thickness 5cm of glass wool
6.	Finish	Finish: Inside of the cabinet stainless steel (304 quality) and outside mild steel sheet painted in epoxy powder coating
7.	Air Circulation	Ventilated with internal fans to assist circulation of air
8.	Temperature controller and display	An accurate temperature controller covering up to 200°C with digital display
9.	Thermostat	Accuracy $\pm 2^{\circ}\text{c}$ An indicator lamp shall be provided to indicate thermostat function
10.	STANDARD	Instrument must be accompanied with calibration certificate by NABL accredited agency
11	Installation & commissioning will be the responsibility of the supplier	

3.INCUBATOR

Sl.No.	Particulars	Specification
1.	Internal Size	605mm x 605mm x 910mm, 336 Ltrs
2.	Door/Shelf	Double door with synthetic rubber gasket and perforated adjustable shelves.
3.	Material/Finish	Outside mild steel in epoxy powder coating inside stainless steel.
4.	Power Supply	220/230 Volts A.C.
5.	Air Circulation	Air circulating fan/ventilated
6.	Thermometer	Digital temperature controller ambient to 70°C with sensitivity + /- 0.5°C
7.	Thermostat	An indicator lamp shall be provided to indicate thermostat function
8.	Standard	Instrument must be accompanied with calibration certificate by NABL accredited agency
9	Installation & commissioning will be the responsibility of the supplier	

4. BOD INCUBATOR

SL No	Particulars	Minimum Specification
1	Size	W 455 mm x D 410 mm x H 610 mm,112Ltrs
2	Door/shelf	Double door with synthetic rubber gasket and perforated adjustable shelves. Inside door unbreakable acrylic transparent door.
3	Material/Finish	Outside mild steel in epoxy powder coating inside stainless steel.
4	Power Supply	220/230 Volts A.C
5	Air Circulation	Air circulating fan/ventilated
6	Thermometer	Electronic digital temperature controller 5°c to 50°c with accuracy of ±0.5°c
7	Additional	Instrument manual also should be provided.
8	Standard	Instrument must be accompanied with calibration certificate by NABL accredited agency.
9	Installation and commissioning will be the responsibility of the supplier	

5.WATER BATH-HIGH PRECISION

Sl.No.	Particulars	Specification
1.	Internal size and other features	455 x 300 x 175mm, 25 Ltrs.
2.	Material	Inside stainless steel (304 quality) and outside mild steel sheet painted in epoxy powder coating
3.	Power supply	220/230 volts
4.	Temperature controller and display	Ambient to 100°c. Digital electronic controller cum indicator. Sensitivity ± 0.1°c
5.	Thermostat	An indicator lamp shall be provided to indicate thermostat function.
6.	Other features	Two pilot lamps, on-off-switch, stainless steel stirrer with 1/20 HP high speed motor and speed regulator. Stainless steel lid of 304 quality.
7.	Standard	Instrument must be accompanied with calibration certificate by NABL accredited agency.
8.	Installation & commissioning will be the responsibility of the supplier	

6. MUFFLE FURNACE

SL No	Particulars	Minimum Specification
1	Size	W 150 mm x D150 mm x H 300 mm
2.	Material/Finish	Outer casing mild steel in epoxy powder coating.
3	Power Supply	220/230 Volts A.C
4	Thermperture controller & display	Working temperature 900°C, ambient to 1000°C accuracy ±5 degree centigrade
5	Additional	Energy regulator with indicators, pyrometer, thermocouple, thermal fuses etc.
6	Heating Elements	Kanthal wire special high temperature alloy to ensure uniform distribution of heat.
7	Standard	Instrument must be accompanied with calibration certificate by NABL accredited agency.

7.FUME HOOD-FLOOR MODEL

SL No.	Particulars	Specification
1	Front opening Work area	770 H mm x 1300W mm 560DX1500WX 940H(mm)
2	Working Space	Stainless steel 316 Qlty Acid Resistant
3	Wash basin	Size 250 x 200 x 150 mm of stainless steel 316 Qlty(Acid resistant)
4	Power Supply	Transparent Front panel incorporating necessary socket with switches for light. 220/440 volt 1/3 phase 50Hz
5	Exhaust System	38 mm Exhaust fan with stainless steel Deck & Duct. Also supplied with cord and plug and rain protective arrangements.
6.	Additional	Side glass panels & backside of acid and alkali material

8. LABORATORY SHAKER

SL No	Particulars	Minimum Specification
1	Platform Size	24'' x 24'' Horizontal, to accommodate at least 25 conical flasks upto 250ml. Additional tray for the above
2	Motor	Fitted with DC motor for continuous work for about 20 h, smooth movement .
3	Shaking speed	Motor fitted with variable speed and speed regulator. RPM 50 to RPM 250 approx
4	Power Supply	220/230 Volts A.C
5	Speed meter	Digital speed meter
6	Additional	Instrument manual also should be provided.

9. BIO SAFETY HOOD LEVEL II

Sl. No.	Particulars	Minimum Specifications
1.	Cabinet	Biological safety cabinet, vertical, sliding window with heat resistant transparent glass, 4' (1.22m) bench class II 100% exhaust
2.	Electrical	230V, 50 Hz Motor single phase
3.	Dimensions	Work area dimensions approx, 118 x 64 x 63.5 (cm)
4.	Installation	To be installed on external wall to comply with Bio Safety Level 2. Certificate to this is required
5.	Stand	Should have adjustable Modular Steel stand
6.	Interior	Interior to be made of stainless steel. The work tray should easily lift out of the work area without tools
7.	Filters	Two HEPA filters, one supply and one exhaust should be supplied and be accessible from front of unit
8.	Alarms	Preferably audible/ visual alarms for low exhaust flow
9.	UV Monitor	UV lamp fitted, ordinary light tube, monitoring system for UV lamp, manometer fitted for air flow up to 15nm
10.	STANDARD	Instrument must be accompanied with calibration certificate by NABL accredited agency.

