

No. GCRI/Store/
February ,2010

To

Dear Sir,

Gujarat Cancer & Research Institute is in need of General Laboratory Instruments. The list is attached herewith. Kindly quote your competitive rates alongwith all taxes in a sealed cover by 5.00 p.m. on 5th March, 2010. All the relevant literature and details of the product and list of clients should also be sent to us.

Thanking you,

Yours faithfully,

Dr. Pankaj M. Shah
Hon. Director

List of the Laboratory Instruments

Research Wing

Sr. No.	Name of the Instrument	Quantity Required
01	Tissue Homogenizer	01
02	Microcentrifuge (Spinwin)	05
03	Balance	01
04	Vortex Mixer	05
05	Water Bath	03
06	Rocker	03
07	Power Pack	01
08	Refrigerated bench top centrifuge	01
09	Electrophoresis instrument	01
10	37°C shaker incubator	01
11	Digital pH meter	02
12	Electronic Balance	01
13	Digital Camera for Leica microscope	01
14	Micropipette variable vol (1-10 µl)	01
15	Micropipette variable vol (1-100 µl)	01
16	Micropipettes Multi-channel pipette (20-200 µl)	01
17	Magnetic Stirrer	02
18	Portable Air purifier (wall mount)	01
19	Liquid Nitrogen Transport container (35 Lts)	01
20	Electronic Single Pan Top Loader balance	01
21	Micro centrifuge (Speedfuge)	01
22	Distillation Apparatus	01
23	Mini-protean-III gel casting system	01
24	Western – Blotting System	01
Histopathology		
25	Tissue flotation bath	1 No.
26	Tissue bit cutter (Cut MATE)	3 Nos.
27	Hot Air over	1 No.
Blood Bank		
28	Centrifuge	2 Nos.
Microbiology		
29	Vertical Table top Laminar Air flow	3 Nos.

Specifications

Technical Specification

- 01 Tissue Homogenizer
Technical Specifications
- ◆ High performance homogenizers for DNA, RNA extraction, cell disruption
 - ◆ Processing Volume : 0.1ml to 3000 ml
 - ◆ Speed : 0-26000 rpm
 - ◆ Time : 0-10 min
 - ◆ Dimension : 17LX15WX5H
 - ◆ Weight : 2 kg or less
- 02 Microcentrifuge
Technical Specifications
- ◆ Built in power supply
 - ◆ Small foot print
 - ◆ Up to max. 10,000 rpm / Approx. 5,000 – 6,000 RPM
 - ◆ Digital display of time and RPM
 - ◆ Rotors for 1.5, 0.5, 0.2 ml Eppendorf tubes
 - ◆ Capable of working with an electric supply @220-230V
- 03 Balance
Technical Specifications
- ◆ Capacity: 180gms
 - ◆ Readability: 0.1mg
 - ◆ Standard deviation: 0.1mg
 - ◆ Linearity: +0.3mg
 - ◆ Stabilization time: 5 Second
 - ◆ Operating Temperature: 10 °c-40 °c
 - ◆ Power Supply & Power consumption AC 220% ,10% 50H₂ 13W
 - ◆ Pan diameter: 80mm. (Stainless steel)
 - ◆ Net Weight: 10.8 Kgs.
 - ◆ Balance housing: 213(W)X 282(H)X401(D) mm.
 - ◆ Weighing chamber: 182(W)X206(H)X151(D) mm.
- 04 Vortex Mixer
Technical Specifications
- ◆ Compact, rugged construction
 - ◆ Heavy metal base
 - ◆ Choice of continuous and touch mode
 - ◆ Max. speed 3,000 rpm
 - ◆ Suitable for tubes, microtiter plates

- 05 Water Bath
Technical Specifications
- ◆ Digital Temp. controller-cum-indicator
 - ◆ Microprocessor based PID temperature controller cum indicator in lieu of thermostat & thermometer
 - ◆ Stainless steel inner body
 - ◆ Epoxy coated outer surface
 - ◆ Size: 2ft x 1.5 ft or above
- 06 Rocker
Technical specifications
- ◆ Digital Display (Tile, Speed)
 - ◆ Up to 200 osc/min
 - ◆ with timer
 - ◆ Platform size: 30x30 cm
- 07 Power Pack
Technical Specifications
- ◆ Max Power Supply – 600 Volts, 500 mAmps, 150 Watts
 - ◆ 4 Outputs
- 08 Refrigerated bench top centrifuge
Technical Specifications
- ◆ Maximum Speed: 16000RPM
 - ◆ Rotors for various tube sizes (from 15 to 50 ml), Eppendorf tubes (1.5ml, 2.0 ml)
 - ◆ Temperature range: Ambient to 4^oC.
 - ◆ Digital display (speed in RPM & RCF, time, temperature)
 - ◆ Minimum 10 program memories
 - ◆ Timer 1-99 minutes
 - ◆ Safety features: imbalance detection, lid interlock
- 09 Electrophoresis instrument with Power supply
Technical Specifications
- ◆ Electrophoresis instrument with suitable power supply
 - ◆ Accessories i.e. Teflon comb etc.
 - ◆ Mini submarine, horizontal,
 - ◆ 10X7cms, 8 slots.
 - ◆ A chamber for pre-chilled coolants that protects from heat distortion & automatic recovery after power failure.

- 10 37°C shaker incubator
Technical Specifications
- ◆ Desktop model
 - ◆ Double walled
 - ◆ 100% Leak proof inner chamber made up of Stainless Steel
 - ◆ Epoxy coated rust proof outer wall
 - ◆ Lid made of thick polished S.S. sheet to prevent failing of condensed water droplets on the specimens.
 - ◆ Insulated space between two walls to prevent loss of heat and ensure constant temperature
 - ◆ Temp. range: Up to 90°C, with control knob
 - ◆ Temp. accuracy: $\pm 0.5^{\circ}\text{C}$
 - ◆ Shaking speed: Up to 200 rpm, with control knob
 - ◆ Digital display of temp. and speed
 - ◆ Size of inner chamber: W x H xD: 400 x 300 x 150 mm
- 11 Digital pH meter
Technical Specifications
- ◆ 7 Digit (LED) Display for pH, Temp. & mV
 - ◆ Range: 0 to 14 pH, 0 to 1999 mV
 - ◆ Resolution: mV/0.1° C
 - ◆ Automatic Calibration (2 Point)
 - ◆ Calibration in battery back-up memory
 - ◆ Temperature Range: 0 to 100° C
 - ◆ Temp. Compensation: Auto/Manual
- 12 Electronic Balance
Technical Specifications
- ◆ Weighing range: Upto 200 gm
 - ◆ Readability: 0.0001 gm
 - ◆ Calibration: Automatic
 - ◆ Balance pan stainless steel: 80 mm
 - ◆ Operating temperature: Room temperature
 - ◆ 3 side sliding doors
- 13 Digital Camera for Leica microscope
Technical Specifications
- ◆ 10 or >10 megapixels
 - ◆ 4X optical zoom
 - ◆ Hard disk
 - ◆ >10 exposure programs for photography
 - ◆ 100, 200, 400, 800 or 1600 ISO automatically or manually selectable
 - ◆ Noise suppression at long exposure times
 - ◆ Automatic or manual white balance for individual calibration of the ambient light
 - ◆ Shutter times: 1 / 2000 – 60 secs
 - ◆ Magnifying functions (6X), Live picture, histogram indicator
 - ◆ Movie capture with sound limited only by memory space
 - ◆ Easily attached to binocular tube or to a C-Mount interface

- 14 Micropipette variable vol (1-10 μ l)
Technical Specifications
- ◆ Fully Autoclavable
 - ◆ One button Operation for aspiration, dispensing and Tip ejection
 - ◆ Volume is automatically locked
 - ◆ Chemically resistant
- 15 Micropipette variable vol (1-100 μ l)
Technical Specifications
- ◆ Fully Autoclavable
 - ◆ One button Operation for aspiration, dispensing and Tip ejection
 - ◆ Volume is automatically locked
 - ◆ Chemically resistant
- 16 Micropipettes Multi-channel pipette (20-200 μ l)
Technical Specifications
- ◆ 8 Channels
 - ◆ Lower parts can be changed at a flick of the wrist
 - ◆ Capable of series dispensing for molecular biology applications and for all immunology assays, such as applying antibodies, washing or stopping
 - ◆ Should be capable of working with very little force for attaching and ejecting the tip
- 17 Magnetic Stirrer
Technical Specifications
- ◆ Compact model
 - ◆ Stainless steel top
 - ◆ Accurate speed control allows smooth variation up to 1200 rpm
 - ◆ Maintains speed stability despite viscosity or volume changes
 - ◆ Capacity of the flask : 5 Lit
 - ◆ Digital Timer
 - ◆ Capable of heating
- 18 Portable Air purifier (Wall mount)
Technical Specifications
- ◆ Photocatalytic, non-ozone producing air purification system for room size of 15 x 15 feet
 - ◆ Capable of working at 220 V
- 19 Liquid Nitrogen Transport container (35 Lts)
Technical Specifications
- ◆ Capacity 35 – 50 Lit
 - ◆ Used for transporting liquid nitrogen

- 20 Electronic Single Pan Top Loader Balance
 Technical Specifications
- ◆ 4-6kg Capacity
 - ◆ 0.1g Minimum Range
 - ◆ Reproducibility $\pm < 0.05$ g
 - ◆ Digital weight indicator system
 - ◆ Easy Auto-operating/adjusting mode selector switch
 - ◆ Tare Sensor, Stable reading
 - ◆ Mechanical protection on weighing cell when overloaded
- 21 Micro centrifuge
 Technical Specifications
- ◆ Refrigerated
 - ◆ Temperature range : 0 – 40 °C
 - ◆ Microprocessor based; digital display
 - ◆ Maximum rcf = 20,000 x g With timer
 - ◆ Should be capable of taking 0.2/0.5/1.5/2.0 ml Eppendorf tubes (with or without adaptor) and 96 well microtiter plates
 - ◆ Autoclavable rotors preferred
- 22 Distillation Apparatus
 Technical Specifications
- ◆ Glass Apparatus
 - ◆ with 2 flasks each of 10 lit capacity
- 23 Mini-protean-III gel casting system
 Technical Specifications
- ◆ Mini format for vertical electrophoresis
 - ◆ Should be capable of running more than 2 hand cast mini gels at the same time
 - ◆ The system should be quoted without power pack
 - ◆ Should include glass plates, combs (different sizes) casting stand, casting frame, electrode assembly, buffer tank etc
- 24 Western – Blotting System
 Technical Specifications
- ◆ Should be able to complete the process in minimum time
 - ◆ Should be capable of running blots of different sizes at the same time
 - ◆ Should be capable of running more than one blot in parallel
 - ◆ Should be compatible to all membrane types, detection methods and variety of antibodies
 - ◆ All combinations of the hardware should be quoted including all accessories

25. Tissue flotation bath

Technical Specification

Dimensions :

Overall(W/D/H): 430x300x90 mm

Glass Tray(W/D/H): 270x165x50 or 80 mm

Drying area(W/D): 370/75 mm

Temperature : +30° C to +55°C

Weight : 7Kg

Power supply : 115-230V

26. Tissue bit cutter(Cut MATE)

A device enabling the operator to consistently & precisely take blocks of 2-3-4 mm thickness for improved histoprocessing results.

Better processing through consistent tissue thickness.

Consistent cutting operator – to –operator.

Easy to use.

27. Hot Air oven

Technical Specification:

Size 20"x20"x20"

With imported thermostate having three side heater three side heater Double wall Construction built in Forced air circulation.

Iner chamber made of stainless steel outer chamber made of Mila steel.

Duly powder Coated

Maximum temp 5⁰ to 250⁰ C.

Blood Bank

28. Centrifuge – 2 Nos.

Technical Specification

1. 24x5ml TT capacity
2. 3500 maximum RPM
3. Angel head and 5 ml polypropylene tubes

29. Vertical Table top Laminar Air Flow

Technical Specification

1. Table top model
2. HEPA filters 9997
3. pre filters
4. Blower with Hanging system
5. Digital display with manometer for pressure
6. U.V light+ fluorescence light tube
7. Cock for gas / vacuum
8. Complete unit made of M.S. with powder coating –working table S.S
9. Size : 4'x2'x2'