DR. PANJWANI CENTER FOR MOLECULAR MEDICINE AND DRUG RESEARCH INTERNATIONAL CENTER FOR CHEMICAL AND BIOLOGICAL SCIENCES UNIVERSITY OF KARACHI KARACHI-75270

TENDER NOTICE NO. PCMD-190112

Sealed tenders are invited from the sales tax and income tax registered firms for purchase/import of the scientific equipments and appliances for the Center. The detail and specifications of the items can be collected from the date of publication of this advertisement in the newspapers, from Purchase Office of the Center, on any working day between 9.00 a.m. to 12.30 p.m., (except Friday), on payment of Rs. 300/- (non-refundable), in shape of a pay order (Demand Draft by the out of Karachi bidders), in favor of the Co-Director, P.C.M.D., or downloaded from the websites www.iccs.edu and www.pprasindh.gov.pk The tenders can be submitted with 2% of the bid value as bid security, in shape of a pay order in favor of the Co-Director, P.C.M.D. latest by 10.30 a.m. on 19-01-2012. The tenders will be opened in Purchase Office of the Center at 11.00 a.m. on the same day in presence of the bidders or their representatives. The Procuring Agency may reject all or any bid subject to the relevant provision of SPP rules.

CO-DIRECTOR

Scientific Equipments for New Cell Culture Facility at PCMD

1. Biological Safety Cabinets (size: 1.2 m) Class II Type A2

Quantity:3

For the protection of product, personnel and the environment

Nominal Size: 1.2 m

External Dimensions: H×D×W; 54.7×29.1×52.8 inch Internal Dimensions: H×D×W; 26.4×22.4×47.8 inch

Average air flow velocity: Inflow, 90 fmp and down flow, 60 fmp Filter type: ULPA for >99.995% particle size between 0.1-0.3 μm

Fluorescent lamp intensity: 1100 Lux

With front sash assembly

With microprocessor control, alarm, monitoring system

UV light retrofit kit provision IV Bar retrofit kit provision Electrical outlet retrofit kit provision

Accessories

Electrical outlet: Europe/World wide Service valves or petcock for Gas/Air/Vacuum IV Bar w/six stainless steel hooks Germicidal Ultraviolet Lamp PVC Armrest Selenoid valve

2. Biological Safety Cabinets (size: 0.9 m)

Class II, Type A2

For the protection of product, personnel and the environment

Dimensions

0.9 m (3')

External= 1115×815×1540 mm

Internal Dimensions= 955×623×670 mm

Airflow Velocity (Inflow)= 0.53(m/s)/105(fpm) Airflow Velocity (Downflow)=0.35(m/s)/70(fpm)

ULPA filter having 0.1-0.3 microns pore size

Fluorescent lamp intensity: 1100 Lux

With front sash assembly

With microprocessor control, alarm, monitoring system

UV light retrofit kit provision

IV Bar retrofit kit provision

Electrical outlet retrofit kit provision

Quantity 2

Accessories

Electrical outlet: Europe/World wide Service valves or petcock for Gas/Air/Vacuum IV Bar w/six stainless steel hooks Germicidal Ultraviolet Lamp PVC Armrest Selenoid valve

3. Biological Safety Cabinet

Quantity 1

Class III, Type B

Provide highest level of product, operator and environmental protection from infectious/biohazardous aerosols.

Suitable for microbiological work with agents assigned to biological safety level 3-4. To work with deadliest biohazards, bacteria, viruses and microorganisms.

Dimensions

1.2 m (4')

External= 1665 x 850 x 2250 mm

65.6" x 33.5" x 88.6"

Internal Dimensions= 1130 x 560 x 650 mm

44.5" x 22.0" x 25.6"

Initial Airflow Volume= 603 m3 /h (355 cfm)

ULPA filter having 0.1-0.3 microns pore size

With Pre filter

Fluorescent lamp intensity: >2000 Lux

With front sash assembly

With microprocessor control, alarm, monitoring system

UV light retrofit kit provision

IV Bar retrofit kit provision

Electrical outlet retrofit kit provision

Accessories

Electrical outlet: Europe/World wide Service valves or petcock for Gas/Air/Vacuum IV Bar w/six stainless steel hooks Germicidal Ultraviolet Lamp PVC Armrest Selenoid valve

4. CO2 incubator, Water Jacketed

Quantity:4

Exterior (W x H x D) 26 x 39.5 x 25" (66.8 x 100.3 x 63.5 cm) Interior (W x H x D) 21.3 x 26.8 x 20" (54.1 x 68.1 x 50.8 cm)

Temperature control of ±0.1°C

Temperature range of 5°C above ambient temperature up to 55°C,

Temperature uniformity at 37°C ± 0.2°C CO₂ Sensor TC or IR CO₂ control: Better than ±0.1% CO₂-range (0-20 % CO₂)
Humidity rH Ambient to 95% at 37°C

With all fittings including fill port, drain port, access port with filter, CO2 in let, unit heat load Shelves

Accessories

HEPA and Inline Filter Kit Additional Shelf Stainless Steel (with Installation Channel)

5. Centrifuges (refrigerated)

Quantity: 4

Suitable for cell culture laboratory

Operates with both fixed-angle and swing-bucket rotors (interchangeable).

Operate with speed, rcf, and radius correction values

Speed in increments of 10 rpm from 200 rpm to maximum

Individual user programs

Short-spin key with selectable rotational speed

Adjustable from -9 °C to 40 °C

Maximum speed: 2.750 x g (4.400 rpm)

Standby refrigeration to maintain a particular temperature following use

"Fast Cool" function to quickly reach the desired temperature

"At Set rpm" function for precise centrifugation

Dimensions (W x D x H in cm): approx 70 x 61 x 35

Power supply: 220/230 V,

Braking option times for the levels 0 to 9 (in seconds)

Rotor, buckets, lids and adapters are autoclavable

Accessories

Swing bucket rotor with:

4 x 250 mL rectangular buckets and 4 MTP buckets

Max. speed: 5.000 rpm

Flexible Adapters for 15 ml and 50 Falcon tubes and 5 ml tubes

Lids for aerosol-tight centrifugation

Swing bucket rotor with adaptors for 96-well plates and cell culture plates

Fixed-angle rotor

Max. speed: 11.000 rpm

For Conical tubes, such as 15 and 50 mL Falcon tubes,

6. Inverted Phase Microscope with Camera, Tablet PC, and Software Quantity: 4

Compact for routine use in cell culture

Fixed binocular tube, including 2 eyepieces

Revolving nosepiece

Plain, movable stage appropriate for cell culture plates, dishes and 96-well plates

Coarse and fine focusing

Phase Contrast and Brightfield

10x, 20x 40x and 100x Objectives

Variable filters

Heatable glass insert plate with controller

Camera: at least 1 Mpx, colour CCD camera with Tablet PC and software. All accessories for camera installation and use including camera head, software, Compact Flash Card etc

7. Inverted Fluorescent Microscope with Camera, Tablet PC, and Software Quantity: 1

Compact for routine use in cell culture

Fixed binocular tube, including 2 eyepieces

Revolving nosepiece

Plain, movable stage appropriate for cell culture plates, dishes and 96-well plates

Coarse and fine focusing

Phase Contrast and Brightfield

10x, 20x 40x and 100x Objectives

Variable filters

Heatable glass insert plate with controller

Camera: at least 1 Mpx, colour CCD camera with Tablet PC and software. All accessories for camera installation and use including camera head, software, Compact Flash Card etc

Filter sets for DAPI, FITC and TxR

8. Liquid Nitrogen Dewar

Ouantity:2

For ultra-cold storage of biological specimens in liquid nitrogen.

Liquid phase

-190 °C

Secure locking clasp

Stainless steel racks that accommodate Cryoboxes for 2 mL freezing vials.

Cryoboxes

Sample storage for 1000 vials

Liquid Nitrogen capacity: 40 liters

9. Upright -32°C Freezers

Complete with racks

Digital Temperature Control

Alarm System

Approx dimensions: 52x20x20"

Frost free

Quantity:3

10. Upright Refrigerators

Quantity:3

Without an autodefrost freezer Temperature range 2-8°C. 12 cu. Ft.: Approx Dimensions: 62 3/8"H x 24 7/8"W x 23 1/8"D 5-6 Shelves CFC Free Refrigeration with Super Quiet Operation Digital Temperature Display (optional) Alarms with Digital Display

11. Vacuum / aspiration pumps

Quantity:4

Compact suction pump for with all accessories (suitable for cell culture) With 2 liter conical flasks Rubber corks/ adaptors and tubings

Dimensions (approx): 11" L x 4-3/4" W x 8-3/4" H

Vacuum: 3 Pa (8.86 x 10-4 in Hg)

Alternate: Bottletop aspirator that removes supernatants, cell culture media, and other liquids from dishes, flasks, culture bottles, centrifugation tubes, multiwell plates, and more. Small, portable, and does not require an external vacuum or power source. Plunger stroke (up to 25mL of aspiration).

Autoclavable for Sterile Applications 10 Mountable reagent bottles

12. Water Bath 7 lit capacity

Quantity:3

With stainless steel, lift-up, thermal insulating lid with inner camber

With microprocessor controlled temperature regulator Rapid heat-up, Digital display in steps of 0.1°C

Temperature range: ambient +5°C + to 99.9°C, and with a water level regulator from approx. 3°C above tap water temperature to 99.9°C.

Drain cock at the back of the bath

13. Water Bath

Quantity:2

4 lit capacity

With stainless steel, lift-up, thermal insulating lid with inner camber

With microprocessor controlled temperature regulator

Rapid heat-up, Digital display in steps of 0.1°C

Temperature range: ambient +5°C + to 99.9°C, and with a water level regulator from approx. 3°C above tap water temperature to 99.9°C.

Drain cock at the back of the bath

14. Electronic Laboratory Gas Burner

Quantity:4

Biological safety compatible With IR Sensor With Foot pedal (Fuego SCS Typ/ type 8.000.000)

15. Thermal rocker with acrylic cover

Quantity:2

Quantity:4

Dimensions: $41 \text{W} \times 34 \text{D} \times 20 \text{H} \text{ cm} (16 \times 13^{1}/_{4} \times 7^{3}/_{4}")$

Platform size: $36 \times 36 \text{ cm} (14^{1}/_{4} \times 14^{1}/_{4}")$

Speed 0–100 cycles per minute Temperature Control ±0.5°C

TemperatureRange: Slightly above ambient to 100°C

Temperature display LED

Nonskid surface to keep samples in place.

16. Vortex mixer

Speed range: 0 - 3,400 rpm

Operating modes: Touch or continuous Ambient operating range: 4° to 65°C Dimensions (WxDxH): 14 x 16 x 13 cm

Accessories:

Heads for:

1.5/2.0 ml tubes,

0.5 ml tubes

0.2 ml tubes (or PCR strips)

1 microplate

15 ml tubes

50 ml tubes

17. Pipettes, 2-20µL

Quantity:4

 $2-20\mu L$, Adjustable, Increments $0.02\mu L$, Accuracy ± 3.0 to 1.0%, Precision 2.5 to 0.4%. Secondary calibration option. Fully autoclavable. Resistant to chemical, thermal and mechanical stress. Volume display: 4 digits. Graduation markings in digits. Volume adjustment lock

18. Pipettes, 20-200µL

Quantity:4

20-200μL, Adjustable, Increments 0.2μL, Accuracy ±1.8 to 0.6%, Precision 0.7 to 0.2%

Secondary calibration option. Fully autoclavable. Resistant to chemical, thermal and mechanical stress. Volume display: 4 digits. Graduation markings in digits. Volume adjustment lock

19. Pipettes, 100-1000µL

Quantity:4

 $100-1000\mu L$, Adjustable, Increments 1.0 μL , Accuracy ± 1.0 to 0.6%, Precision 0.6 to 0.2%. Secondary calibration option. Fully autoclavable. Resistant to chemical, thermal and mechanical stress. Volume display: 4 digits. Graduation markings in digits. Volume adjustment lock.

20. Multichannel Pipettes

Quantity: 3 sets

(8 channel)

With Volume adjustment, Control button, Volume display: 4 digits, Ejector Calibration display & adjustment opening

Volume range (µl)

0.5 - 10

10-100

30-300

21. Pipette Aid (Liquid dispenser)

Quantity:4

For graduated and one mark pipettes from 0.1 to 100ml Valve control for sensitive control of the meniscus, Controlled setting of the pumping efficiency Aspirating speed: ~25 ml in 5 sec One-finger control for the Flow-Out and Blow-Out functions Cordless work for up to 6-7 hours Autoclavable pipette adapters and filter holders Active pressure compensation

Accessories

Wall holder

Charger

Rechargeable batteries (8)

Filters (0.45um)

(50)

SUMMARY SHEET

The tender will liable to be rejected if this form will not accompany the tender bid / quote

SERIAL No.	BID VALUE	FOREIGN	CONVERSION RATE	PRICE IN PKR

TOTAL BID VALUE IN PKR	LUE IN PKR		
Earnest Money @ 2% in PKR	@ 2% in PKR		
Payorder / Bank Draft No:	ift No:	Date:	
Signature	Seal:		