GOVERNMENT COLLEGE UNIVERSITY FAISALABAD

TENDER DOCUMENT No. 587/47/2018

SUPPLY OF EQUIPMENT FOR DEPARTMENT OF BIOCHEMISTRY (TDFF02-150) GCUF.

Purchase Price: Rs. 500/-

Sealed Tenders are invited from the well reputed firms / suppliers, who are registered with Sales Tax and Income Tax Department as Active Tax Payer for Purchase of Lab Equipment for Department of Biochemistry, GCUF.

GENERAL TERMS & CONDITIONS

1. Tender Opening Date & Procedure:

The procurement shall be completed in accordance with Punjab Procurement Rules 2014, on **Single Stage – Two Envelope** Bidding Procedure. (Technical & financial proposal separately)
Bids in complete conformity with Tender Documents will be dropped in Tender Box placed at Procurement Department of the GCUF, not later than **10:00 Hrs on 25.01.2019** which shall be opened on same day at **10:30 Hours**.
Both Technical and financial proposal shall be written in the letter head of their company /firm along with other prescribed documents.

Note: Tender Number must be mentioned on envelope.

2. Tender Fee, Bid Security and Performance Security:

The Bid must be accompanied by Tender Fee of Rs:500/- in shape of Call Deposit Receipt (CDR) in original and Bid Security of 2% of Estimated Price of Rs. 8,549,000/- (refundable) in shape of Call Deposit Receipt (CDR) in original. CDRs must be in favor of Treasurer, Government College University, Faisalabad. The rates / bids should be inclusive of all applicable Govt. Taxes.

3. Validity of Offers.

i. Offers shall be valid for 180 days from the date of submission of bids.
ii. Withdrawal / modification of the original offer within the validity period shall entitle the University to forfeit Bid Security.
iii. Sales Tax Number and NTN Number must be mentioned on the letter head and bidding documents.

4. Failures and Terminations:

No offer of a supplier / firm will be considered if:-

a) Bid received without Bid Security / Call Deposit or less CDR than the required.
b) Bids received not in accordance with specifications of Tender Documents.
c) Bid received later than the date and time fixed for tender.
d) Tender is incomplete in any respect or is unsigned.
e) Offer is ambiguous and the offer is conditional.
f) Offer from a firm which is black listed at any level.
g) Any erasing / cutting / overwriting etc.
h) The supplier fails to deliver the consignment within specified delivery period strictly in accordance with the terms and conditions as laid down in the Purchase Order.
i) Situation warranted, then University is authorized to forfeit the bid Security and the firm may also be black listed.

5. Other special conditions

I. The decision of the Vice Chancellor of Government College University, Faisalabad, would be final & binding on both the parties.

II. The supplier/vendor shall submit company profile with financial status and experience record of dealing in relevant line of business.

III. 10% performance security, applicable on non-consumable supplied items, shall be deducted from the final bill of the successful bidder as per PPRA Rules 2014 and shall be released on request after successful expiry of warranty period.

IV. All Government Taxes & duties ie; $1/5^{th}$ of total GST as well as income tax and stamp duty (if applicable) will be deducted according to applicable rules.

V. The warranty period for the supplied items shall be declared minimum364 days on final inspection of the Committee and end user. However, this warranty period may be extended if deemed necessary due to unavoidable circumstances.

VI. Upon the successful supply, fixation, placing, installation, demonstration and inspection carried out by the end user/inspection committee. The successful bidder shall submit their invoice/requisite for request for payment with all necessary documents.

VII. No partial/advance payment shall be made against partial supply.

VIII. The unit rates and the price shall be quoted by the bidder in **both C.N.F and F.O.R value**.

IX. LDC (Late delivery Charges) penalty shall be imposed @2% per month of delay upto maximum of 10% of total price.

X. The University may reject all bids/proposals at any time prior to the acceptance of a bid or proposal as per PPRA Punjab rule 35, however upon bidder request the ground of rejection will be communicated to the concerned but no justification will be given as per PPRA rule 35 (2).

Muhammad Mazhar Waseem
Incharge Officer, Procurement & Inventory Control
Allama Iqbal Road Faisalabad, Phone: 041-9201468 & 9201030

ISSUED TO:

M/S----------

Appendix "A"

TENDER NOTICE No. 587/47 / 2018

SUPPLY OF EQUIPMENT FOR DEPARTMENT OF BIOCHEMISTRY GCUF.

Sr no	Item	Item specifications	Unit Price	Total Price Including Taxes
1	**Real-Time PCR (QPCR)**	▪ System must be usable in standalone mode for Real-Time PCR experiments. ▪ System must be upgradable to 384-Well reaction module (High throughput). ▪ System must contain at least 1 dedicated detection channel for FRET probe-based chemistry. ▪ System must be HRM compatible. ▪ System must have Thermal Gradient feature. ▪ System dyes should be factory calibrated. ▪ Excitation source must be LEDs. ▪ Detection source must be Photodiodes. ▪ Excitation/Emission spectral range should be 450-730nm. ▪ System should not require passive reference dye. ▪ System should be compatible with robotic accessory to automate workflow. ▪ System must be an open system. ▪ Must have variable heated lid temperature. ▪ Heating and cooling system should be Peltier based. ▪ Ramp rate should be 5°C/sec.		

		▪ Temperature range should be 0-100°C. ▪ Temperature accuracy should be ± 0.2°C. ▪ Temperature Uniformity should be ± 0.4°C. ▪ Gradient operational range must be 30-100°C. ▪ Gradient temperature differential range 1-24°C. ▪ System must have 6 detection channels. ▪ Lower detection limit should be 1 copy. ▪ Dynamic range must be 10 orders of magnitude. ▪ System should have license for real-time PCR. **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
2	**Fluorescence Microscope**	▪ Stand: All-metal stand, arm firmly connected with base, pinion knobs attached on both sides of the stand for coarse and fine focusing ▪ Tube: Binocular inclined 45°, head rotation 360° ▪ Eyepieces: Pair of wide field eyepieces WF 10x 18 mm ▪ Objectives: Revolving nosepiece with 4 achromatic objectives 4x / 0.10, 10x / 0.25, 40x / 0.65, 100x / 1.25 (oil) ▪ Enlargement: 40x, 100x, 400x, 1000x ▪ Object stage: x-y mechanical stage, 140 mm x 140 mm, with object guide, adjustment range 75 mm x 50 mm ▪ Illumination: Adjustable 6 V, 20 W halogen lamp integrated in base. Universal 100 V to 240 V, 50/60 Hz power supply ▪ Condenser: Abbe condenser N.A.1.25 with iris diaphragm , filter holder	▪	▪

		and filter, focussed via rack and pinion drive ▪ Camera sensor: 1/3" CMOS, 1.3 Mpixel, colour image ▪ Power supply: Via USB 2.0 ▪ System Requirements: WIN2000, WINXP, Vista, WIN7 and WIN8 ▪ Dimensions: 220 x 180 x 390 mm^3 approx. ▪ Weight: 8,5 kg approx. **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
3	**Plant growth chamber**	**Features** ▪ Graphic LCD provides easier operation ▪ Programmable temperature, lighting and humidity functions ▪ Programmable temperature function is perfect for temperature ▪ cycle and vernalization treatment research. ▪ Small and lightweight, high-molecular membrane-type humidity sensor also boasts a high degree of accuracy and reproducibility. Of the newest high-molecular membrane type, the humidity sensor accurately measures chamber humidity. **Specification** ▪ **Temperature control range:** 5°C to +50°C (light off) +10°C to +50°C (light on) ▪ **Effective Capacity:** 294 litres ▪ **Internal Dimensions:** 520 x 490 x 1135 (mm) ▪ **Shelves:** 4 ▪ **Air circulation:** Forced air circulation ▪ **Compressor:** Hermetic type ▪ **Temperature Accuracy:**		

		±0.3°C ▪ **Temperature control:** Microprocessor PID and Refrigeration capacity control ▪ **Lighting range (Adjustable):** 0 lx to 20,000 lx Fluorescent lamp 40W x 15, 6 increments (0, 1, 2, 3, 4, 5) ▪ **Humidity:** Ultrasonic humidifier PID control ▪ **Humidity control range:** 60 to 90%RH (+15°C to +45°C and light off) 55 to 85%RH (+15°C to +45°C and light on) ▪ **Alarms and safety** Temperature alarm, High and low temperature limit, Humidity alarm **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
4	**Sonicator**	**Description** ▪ Cleaning tank made of cavitation-resistant stainless steel. ▪ Casing made of stainless steel, hygienic and easy to clean. ▪ Permanent sweep function for an optimized sound field distribution in the cleaning liquid. ▪ Temperature-controlled ultrasonic operation: ▪ Splash water-proof operating panel. ▪ Temperature setting between 30 C°, and 80 C°, Variable in 5 C°, steps. ▪ Automatic switch-off after 12 h operation to prevent unintended permanent operation. **Technical Specifications:** ▪ Tank max. (liter) = 2.75 ▪ Tank internal dimensions = 240x137x100 mm		

		▪ Ultrasound frequency (kHz) = 37 ▪ Mains voltage = 220V **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
5	**pH meter**	**Features:** ▪ Large multifunctional LCD display ▪ Easy to clean membrane keypad ▪ Three point calibration system ▪ Power with universal AC adapter or AA batteries **Technical Specification:** ▪ **Parameter:** pH, mV, Temperature ▪ **Temperature compensation:** Automatic / manual ▪ **pH:** -2.0 … 20.0 ±0.1 pH -2.00 … 20.00 ±0.01 pH -2.000 … 19.999 ±0.005 pH ▪ **mV:** ±(1200.0 ±0.3) mV ▪ **Temperature:** ±(2000 ±1) mV ▪ **Auto Read:** Automatic ▪ **Temperature range:** -5 to +105°C, ± 0.1 °C ▪ Complete with Electrode stand, Plastic Beaker 50ml, 3MKCL solution 50ml, Calibration standard solutions pH 4, 7 & 10 (50ml each), pH electrode Sentix 41 precision **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
6	**Refrigerated centrifuge machine**	**Features:** 230 V 50 Hz, maintenance free brush-less motor with a speed range of 18000 rpm universal speed range, microcontroller with automatic rotor identification, LCD Display for the preselection of all centrifuge parameters		

		10 each curve of acceleration and deceleration, simple starting, Temperature control range –20 to +40°C, with built in time display, range 0 – 99hr or infinite, Operated on 220 Volts. **Specifications:** ▪ Maintenance-free induction drive ▪ Microprocessor with large LCD display ▪ Motor driven lid lock ▪ Automatic rotor identification system with over speed ▪ protection, immediately upon rotor insertion ▪ Active imbalance-identification and -cut off (rotor specific) ▪ Imbalance tolerant drive ▪ CFC free refrigeration system ▪ A large variety of rotors and accessories ▪ Manufactured according to international safety regulations, i.e. IEC 1010 ▪ Audible signal at the end of each run with several melody options ▪ Rotor exchange is easy to handle ▪ Noise level under 60 dBA at max. speed ▪ 1-No. Angle Rotor capacity 24x1.5ml/2.0ml Speed 15000rpm with adaptors of 15ml & 50ml ▪ 1-No. Angle Rotor capacity 6x50ml Speed 6000rpm with adaptors of 15ml round bottom falcon tube. **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
7	**Safety cabinet**	**Standards Compliance** ▪ **Biosafety Cabinets** ▪ **Air Quality** ISO 14644.1, Class 3		

		▪ **Filtration:** ISO29463 ▪ **Electrical Safety**: UL-C-61010-1 **Reduced Noise Level** Lower noise level enhances the attention and allows user to focus on work without distraction. **Single piece wall & work tray:** ▪ Large radius for easy cleaning ▪ Made in SUS304, rust free **UV lamp for sterilization** ▪ Drain valve for convenient cleaning ▪ HEPA filter, efficiency ≥99.999%@0.3μm micron **Various Alarms:** ▪ Inflow velocity alarm ▪ Exhausted airflow alarm ▪ The slide shutter height alarm ▪ Filter high-resistance alarm ▪ Fan failure alarm **Technical Specifications:** ▪ **Nominal Size:** 4 Feet ▪ **Usable Work area:** 0.762 m_2 ▪ Internal Dimensions (W x D x H) 1270*600*620 mm ▪ External Dimensions (W x D x H) 1500*790*2050 mm **Airflow** ▪ **Type:** Top Exhaust ▪ **Average Inflow Velocity:** 0.55m/s ▪ **Average Down-flow Velocity:** 0.35m/s **Cabinet Construction** ▪ **Main Body:** Electro-galvanized steel with white oven- Baked powder-coated finish Sash Glass Thickness: 5mm ▪ **Sash Glass Type:** Tempered Glass, Ultraviolet-proof		

		Cleanliness ▪ **Cleanliness HEPA:** ISO Class5 ▪ **Filtration Efficiency HEPA:** ≥99.999%, @ 0.3 μm ▪ **Total colony in culture dish** (Cross Contamination): ≤2CFU./Time ▪ **Display:** LCD Screen ▪ **UV Timer:** Yes ▪ Built in UV light and florescence light operated on 220 volts **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
8	**Ice machine**	**Structure:** completely realized in stainless steel Inside, the structure it includes a bin, realized in atoxic plastic material, where is stored the ice, when this bin is full, the machine stop itself to produce ice. The bin is also insulated, to avoid the melting of the ice stored **Door:** in the front part of the appliance is located the door plastic made that closes the storage bin **Cooling unit**: bottom mounted, with the condensing unit compounded by Nr 1 hermetic compressor and Nr 1 finned condenser, air cooled through a fan, in the version "A" or Nr 1 condenser, water cooled, in the version "W". **Breakers:** Nr 1 glass cartridge fuse with a rating of 10A, at protection of the appliance. **Kind of ice:** flake **Production (Kg/24h)**: 90 **Bin capacity (Kg)**: 20 **Water consumption (litres/Kg)**:1 (version A), 6,3 (version W) **Refrigerant:** R404a CFC-free **Noise level (dB (A):** = 50 **Dimensions (W x D x H cm):** 50		

		x 66 x 82 **Net weight (Kg):** 60 **Packed dimensions (W x D x H cm):** 55 x 71 x 88 (0,35 m3) **Gross weight (Kg):** 70 **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		
9	**Vertical Gel Electrophoresis**	For protein & DNA electrodes able to make and runs two gels simultaneously. Error free transparent lid design Anti-leakage casting system Easy removal of gel sandwich, Maximum gel size 10 x 8cm, gel thickness 1.0 mm, Buffer volume internal 250-300ml, and buffer volume external 500 ml, gel tank dimension: 20 x 13 x 16.5cm. Injection moulded unit, compact design, complete unit includes Electrophoresis tank, electrode module 1set for 2 gels casting module 2-set, glass plates 5-sets, 1.00mm spacer 4-Nos., 1.00 mm 10 teeth combs 2-Nos., one gel plate, alignment card, glass plate separator and instruction manual. Electrophoresis power supplies. **Note:** Lab equipment should be made of USA, Europe, Japan or equivalent.		

Price/Rates shall be quoted on Firm's letter head pad and all tender documents shall be typed/computerized with date except signature of the authorized person of firm.

Details of Call Deposit Receipt (CDR) **Signature_____**

No_____ Amount_____ **Name of Bidder_____**

Bank_____ Branch_____ City_____ **CNIC No _____**

Name of the Firm & Address _____Ph No_____

N.T.No. _____Sales Tax No._____

Issued By:

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