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The Government
Sadiq College Women
University Bahawalpur Pakistan



TENDER NOTICE # 24/2020-21(Project).

Sealed Tenders are invited from the GST & Income Tax registered Firms/Distributors/Dealers/Suppliers for the Govt. Sadiq College Women University Bahawalpur as per detail given below for the financial year (2020-21) which may reach the office of the under-signed on or before **19/05/2021**(Wednesday) till **11:00 A.M** and the opening of the bid(s) will be at the same day at **11:30 A.M** in the presence of the representative of the competitive firms in the office of Chairperson Purchase Committee. Rates should be quoted on FOR basis.

Sr. #	Category/Item Name [Zoology Deptt]	Estimated Price (Rupee in Million)	3% Security on Estimated Price (Rs.)
A	Zoology Laboratory Equipment (Specifications/Quantity/detail of items are in bidding document)	=25.045/-	=751,350/-

1. Sealed tenders/bids shall be accepted only against on tender document to be collected from office on payment of Rs.1000/- through Call Deposit/Challan as tender fee (Non-Refundable) OR can be downloaded from the GSCWU website www.gscwu.edu.pk or PPRA website www.ppra.punjab.gov.pk.
2. (a) Security amount must be deposited equal to 3% of the estimated price of the tender in form "Call Deposit Receipt" in favor of Treasurer, GSCWU as earnest money which will be refunded to the un-successful parties. The CDR will be detained of the successful parties till the completion of the contract.
(b) The payment of the bill will be made after the verification and inspection of the material through the crossed cheque after deducting 5% security from the total value of the bill till the completion of warranty period which will be released after the verification of end user.
3. Late offers will not be considered. Cutting/overwriting is not allowed.
4. Single Stage/Two Envelope bidding procedure will be adopted as per PPRA Rules 38-2(a). The envelope shall be marked as "Technical Proposal & Financial Proposal" in legible letters. The financial proposal of the bids found technically non-responsive shall be returned unopened and shall be returned on the expiry of grievance period or the decision of the complaint, if any, filed by the non-responsive bidder, whichever is later.
5. Conditional bids may be liable for rejection. Offers with incomplete documentation will be rejected.
6. The bidders will attach their respective copies of NTN, sales tax registration certificate, copy of valid CNIC and copy of CDR in technical bid. Copy of paid professional tax also be provided. Taxes will be applicable as per Govt. Rules and Regulations.
7. Where the use of, or a reference to, a brand name or a catalog number is mentioned; such use or reference shall be qualified with the word "OR EQUIVALENT".
8. Sealed tenders duly completed in all respect must reach the office of the undersigned by courier service/by hand during office hours 09:00 A.M. to 03:00 P.M. except Saturday and Sunday till the closing date and time as mentioned above.
9. The GSCWU reserves the right to cancel/reject all tenders/bids at any time prior to the acceptance of bid or proposal in accordance with rule 35 of Punjab Procurement Rules, 2014. However, the procuring agency shall upon request communicate to any bidder, the grounds for its rejection of all bids proposals, but shall not be required to justify those grounds.
10. In case of closed/forced holidays/lockdown (as the case may be), tender opening time/date will be considered as the next working day.
11. All terms and conditions given in bidding documents will be applicable.

IPB-363

Treasurer

29/04/2021 (سید) کوئیٹہ



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The Government
Sadiq College Women
University Bahawalpur Pakistan

TENDER DOCUMENT

FOR PROCURMENT OF ZOOLOGY LAB ITEMS
FOR FINANCIAL YEAR 2020-21



The Govt. Sadiq College Women University Bahawalpur

Note: Please read carefully this Tender document and sign & stamp each page.



1. ZOOLOGY DEPARTMENT

Sr#	Item Description (Zoology Lab Equipment)	Qty	Unit price with all taxes (Rs)
1	Animal Cages: wire cages Size: Triple; 26 3/8' W*10 5/8' D*7 1/8' H. China or equivalent	10	
2	Bench top Centrifuge 4 x 1000mL, Max. RCF 25,314 x G, Max. Speed 15,200rpm. Digital Display. Noise level <61dBA, Accel/Decel Profiles 9 Accel /10 Braking. Electrical Requirements 120V 60Hz. USA , Japan or equivalent	2	
3	Binocular Compound Microscopes: Optical System: Antifungal, Infinity corrected Viewing Bodies: Siedentopf Binocular tube, 30° inclined, 360° rotatable, Interpupillary distance 48-75mm. Eye pieces: Wide Field focusable paired eyepiece WF 10x/20mm, with foldable eye guard. Nosepiece: Reverse angle quadruple nosepiece (Ball-bearing type) with click stops and rubber grip. Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives, antifungal 4x/NA 0.10/WD 30.mm.10x/NA 0.25/WD 7.0mm 40x (spring loaded)/NA 0.65/WD 0.65mm, 100x (spring loaded, oil)/NA 1.25/WD 0.23mm. Mechanical Stage: Rack-less X-axis, double plate mechanical stage plate size 200 x 160mm, X/Y travel range 78 x 54mm. Focusing: Fine focus 0.3mm per rotation. Illumination: LED Illumination with built-in rechargeable battery making it cordless during use. LED lamp rated up to 100,000 hours operating life. Electrical: Universal input 100V-240V AC, 50/60 Hz. Immersion oil TYPE A. USA, Japan or equivalent.	3	
4	Blenders (various processing capacities): High Throughput, No cross contamination, samples stay cool, convenient, Risk free. USA, Japan or equivalent.	2	
5	Blood Chemistry Analyzer: Fully automatic with accessories. Europe or equivalent	1	
6	Chemical oxygen demand meter: T digest: 165 °C±1.0 , Digest time: 10min , Measuring range: 5 – 5000mg/L, Measurement time: The water samples of 12/25/36 branch are simultaneously tested in 20min, Resistance against chlorine interference: [CL –]<1000 m/L[CL –]<4000mg/L(optional), Precision: COD=20 mg/L V<10% , COD=300 mg/L V<4.3%, Display: LCD. USA, Japan or equivalent.	1	
7	Chemical lab safety equipment's: Safety Shower, First aid kit, Phone, Fire extinguisher, eye washer, Fire blanket, spill neutralizer, Safety gloves, chemical gas mask, Fischer safe glasses, safety goggles, fuming hood. USA, Japan or equivalent.	2	
8	Chest Freezer: 385 L Cubic Feet Capacity • Up To 30 Hours Cooling Retention After Power Failure (Keep temperature below -9 degree) • Comfortable door hinge design can be moved to different angle. • 58 Kg Weight. USA , Japan or equivalent	3	
9	Digital Precise Water Bath with Digital control: Capacity: 22 Lit. Temp. Range & Accuracy: Ambient +5°C ~ 100°C, +0.1°C, Temp. Resolution: 0.1°C - Display, 0.1°C - Control, Temp. Uniformity & Probe: +1.0°C, PT100, Heating Power: 2 kW. Timer & Alarm: 99hr 59min (Delay & Continuous run), Error status & Timer-end. Display: Digital LCD with Back-Light Function Safety Circuit: Over-Temp. / -Current protection, Material: Stainless steel. Dimension (W x D x H) Internal: 500 x 295 x h150mm. Dimension (W x D x H) External: 535 x 330 x h260mm. Power Supply: AC 230 V, 50 / 60 Hz. USA, Japan or equivalent.	2	
10	Digital Weighing Balance: Four touch less sensors for hands-free operation of print, calibration, tare, and	2	

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Sr#	Item Description (Zoology Lab Equipment)	Qty	Unit price with all taxes (Rs)
	other selectable functions. Capacity (g) 320, Readability (g) +0.1mg, Repeatability std (g) +0.0001, Linearity (g) +0.0002, Stabilization Time (sec) ≤ 3 , Pipette Adjustment, SQC, auto Calibration on 1.5C temperature change, Full-color VGA graphic display, 4-wire resistive touch screen 5.7 in / 145 mm, RS232, USB, Pan Size 90mm, IR Sensor 04 No's, automatic door opening & closing. USA, Japan, Germany, UK or equivalent		
11	DNA Isolation Kit: Concentration: 5 units/ μ l, Recombinant enzyme: Yes, Substrate analogs: dNTP, ddNTP, dUTP, biotin-11-dUTP, DIG-11 dUTP, fluorescent-dNTP/ddNTP, Extension rate: 2–4kb/min at 72°C Half-life: 10 min at 97°C; 60 min at 94°C, Amplification efficiency: $\geq 10^5$ fold, 5'→3' exo-nuclease activity: Yes, Contaminating nucleases: No, Contaminating RNases: No, Contaminating proteases: No, Self-priming activity: No. USA, Japan, Germany, UK or equivalent	10	
12	DO Meter: Measurement Units DO (Dissolved Oxygen) in mg/L units. Temperature in °C/°F units Data logger Sampling Rate AUTO LOGGING: From 1 second to 8 hours 59 minutes and 59 seconds. Memory Card: SD Cards 1G to 16GB Display update rate Approx. 1 second. Data Output RS-232 / USB PC computer interface Operating Temperature 0 to 50°C (32 to 122°F) Operating Humidity 85% R.H. max. Power Supply Six (6) 1.5 VDC batteries (optional 9V AC adaptor) With backlight OFF and data logging ON: approx. 37mAdc With backlight ON add approx. 12mAdc Weight 362g (0.79 lbs.) meter only Cable Length 4m (13.1ft) Dimensions Main instrument: 182 x 73 x 47.5mm (7.1 x 2.9 x 1.9") Probe: 190 x 28 mm (7.5 x 1.1") diameter. USA, Japan, Germany, UK or equivalent	2	
13	EC Meter: 4-pole linear electrode, Automatic temperature compensation, Conductivity range 0.0 μ S/cm to 199.9 mS/cm, TDS range 0.1 mg/l to 199.9 g/l, Salinity range 0.00 to 19.99psu, Temperature range 0°C to 100°C, Resolution Automatic range: 0.1°C, Error Limits ± 0.5 % Measured Value. ± 0.3 °C, 1 point. 3 predefined standards for calibration, White backlight liquid crystal, Temperature Compensation Linear: 0.00 %/°C.10.00 %/°C, Standard Solution 50ml. USA, Germany, Japan or equivalent	2	
14	Egg incubator: (Small lab incubator), capacity 500 eggs. USA, Japan, Germany, UK or equivalent.	2	
15	Electric oven: Capacity: 105 Lit. Dimension (W x D x H) Interior (mm): 485 x 415 x 535. Dimension (W x D x H) Exterior (mm): 653 x 712 x 882. Heater Power: 1.4 kW. Temp. Range: Ambient Temperature +5°C to 250°C.Temp. Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C. Temp. Variation: +1°C at 100°C, +1.8°C at 150°C .Temp. Sensor: PT 100.Control Resolution: +0.1°C.Heat-up Time: 25 min. to 100°C, 45 min. to 50°C. Recovery Time (Door open 30sec): 6 min. to 100°C, 6 min. to 150°C. Controller: Digital Fuzzy Control by Advanced Microprocessor Jog-Dial with Push Button. RS232 Port: Available to connect with PC. Display: Digital LCD with Back Light. Timer: 99hr 59 min (delay/continuous function). Glass Wool. Shelves: 2ea of Stainless steel. USA, Japan, Germany, UK or equivalent.	2	
16	Fish Measuring boards: Wooden board with attached 1 meter scale. Dimension: 40x55x1.6 cm (15.7x21.7x0.6 ic.). Weight each segment 3.82 kg. USA, Japan, Germany, UK or equivalent.	10	
17	Fishing nets: Gill nets (mesh size: 0.5 to 1inch), scooped nets, hand line. USA, Japan, Germany, UK or equivalent.	5	
18	Gel Electrophoresis Vertical: vertical system (A) + 2 sets of glass plates with bonded 1 mm thick spacers + 2 combs, 1 mm thick, 24 samples + cooling pack + dummy plate. Power supply for electrophoresis. EV243 Mini power supply, 400 V / 300 mA / 50	1	



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	W. Electrophoresis Unit. Gel Caster Unit. USA, Japan, Germany, UK or equivalent.		
19	Glass ware drying cabinet: Capacity 125 L, 3 adjustable shelves, Max temp: ambient +50. USA, Japan, Germany, UK or equivalent.	1	
20	Glucometer: Weight; 0.2 lbs. (75 g). Dimensions: 3.6 in x 2.3 in x 0.9 in (91 mm x 58 mm x 23 mm). Sample Volume Required; 1.2uL. Time to Glucose Results; 6 seconds. Data Transfer; Nova Microsoft-Excel based data transfer Software. Battery Information; Type; 3V Li Button Battery; Features; Replaceable. USA, Japan, Germany, UK or equivalent	5	
21	Heating Block: Temperature range °C ambient + 10 to 400 , Stability (DIN 58966)°C ± 0.5 (up to 300°C) Uniformity °C 1%, Display LED, Display resolution °C 1, Timer mins 1 to 9999 , Alarms, high/low, Heat up time ambient to maximum, mins, 100, Heating block, l/w/d, mm, 190 x 140 x 75,Capacity, BT5D-16 38 x Ø 16 x d60 mm tube,BT5D-26 , 22 x Ø 26 x d60 mm tube , Safety, over temperature protection adjustable cut-out, Electrical power 230 V 50/60 Hz W , 750, 120 V 50/60 Hz W , 750. USA, Japan, Germany, UK or equivalent	1	
22	High performance electric vacuum pump: Electric vacuum pump 1/4HP--1 HP /1.5CFM--12CFM/110V--220V. USA, Japan, Germany, UK or equivalent	2	
23	Homogenizer: Particle reduction down to 1 µm. Operating range up to 2.5 liters. Maximum speed 24000 rev/min. Overall 75 x 60 x 250 mm. For 230 V, 50/60 Hz. Single Phase Supplier. USA, Japan, Germany, UK or equivalent.	2	
24	Hot plate with stirrer: Material Body: Powder Coated Aluminum. Material Plate: Solid Ceramic Glass Plate, 200 x 200mm. Stirring Capacity (H2O): Max. 20 Lit. Speed & Control Resolution: 80 ~ 1,500 rpm, 5 rpm. Temp. Range & Accuracy: Max. 500°C, ±0.3°C at Set Temperature. Temp. Resolution: 0.1°C - Display, 0.5°C - Control. Heating Power / Consumption: 850W. Timer & Alarm: 99hr 59min (with Continuous run.), Error status & Timer-end. Display: Digital LCD with Back-Light Function Controller: Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button. Stirring Bar: 3cm bar-included, Usable: up to 5cm bar. Safety Circuit: Over Temp. Protection, Hot Top Indicator LED Lamp. Permissible Temp. & RH %: Ambient +5 ~ 50°C, 85% RH. Dimension & Weight: 205 x 345 x h135mm, 3.3kg. Power Supply & Cord/Plug: AC 230 V, 50 / 60 Hz, with Cord/Plug. Including: External/Direct Contact Temperature Probe. USA, Japan, Germany, UK or equivalent.	2	
25	Ice Flake Machine: Compact body size to fit to under counter. Wide door design for easy to take ice out of bin. Smart protections: Protection from unusual electrical condition. Ice production capacity: 120kg/day with ice storage bin 60kg, air cooled type complete unit. Operated on: 220V, 50 Hz. Western Europe, USA, Japan or equivalent. USA, Japan, Germany, UK or equivalent.	1	
26	Inverted Microscope: With in-built camera connectivity in eyepiece. Objective 0.56X – 4.5X eyepiece WF 10 X. USA, Japan, Germany, UK or equivalent	2	
27	Kemmerer's water sampler: Glass bottle having capacity of 1.2L. The body of the sampler can be made of clear acrylic, Lexan, or P.V.C., and the metal parts are machined from stainless steel. The bottle is closed by means of a messenger and the sample is brought to the surface in a strictly unmodified condition. Samples can be drawn off by means of a drain in the lower stopper. USA, Japan, Germany, UK or equivalent	4	
28	Killing jars: For killing insects. China or equivalent	30	
29	Maximum/Minimum Thermometer: Measuring range: -30 to +50. USA, Japan, Germany, UK or equivalent	10	

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30	Micropipette Multi Channel: Precise pipetting control, - 0.1µl-100µl volumetric. Filling and delivery are easily controlled with a small sensitive lever, Autoclavable silicone pipette holder. USA, Japan, Germany, UK or equivalent	5	
31	Portable pH meter: PH Range: -1.00~15.00pH pH Accuracy: ±0.01pH. Resolution: 0.01pH. mV Range: -1000~1000mV. Resolution: 1mV. Temperature Range: 0~105°C, 32~221°F. Resolution: 0.1°C. Calibration Points: 1~3 points. Power Requirements: DC9V, using AC adapters, 220VAC/50Hz. Dimensions: 210(L) x 205(W) x 75(H) mm. Weight: 1.5kg. USA, Japan, Germany, UK or equivalent	5	
32	Secchi Disc Kit: Includes detachable 24 oz. zinc sounding weight. Silk screened black and white quadrants 20cm diameter polycarbonate disc. USA, Japan, Germany, UK or equivalent	2	
33	Stage micrometer: 59-1403 stage micrometer. Calibrated glass slides with 1mm scale length divided into 100 parts (1 division = 0.01mm). USA, Japan, Germany, UK or equivalent	3	
34	Stereo microscope with digital camera: Ground plate with filter magazine. Daylight filter, 32mm. Tube Optic P 1x/1.6X+Bertrandl.+Quarzpl.Basic Docu Tube POL BDTP 25.Tube adapter incl. 1 docu. Port No: 11505161.Eyepiece HC PLAN s 10x/25 Br.M +reticule. Pol-Stage w. 45°-click stop to o: 11551077. Advanced Object guide for Pol-Stages. Condenser BF. Condenser head P 0.90 S1. Analyzer360°, 30x5 without grey filter. Whole-wave plate f. compensator slot. Halogen lamp 12V 100W. Lamp housing 106, 12V 100W, 2-lens, 0.55m 1 536.80 536.80. Cube P to Smith, Polarizer R/P, L 29x11.5 .Halogen lamp 12V 100W. Lamp housing 106, 12V 100W, 2-lens, 0.55m .Digital Camera & SW Kit. C-Mount HC 0.55x. USA, Japan, Germany, UK or equivalent	2	
35	UV Transilluminator: Transilluminator allows selection of 8-watt long wave, midrange or shortwave in one compact unit. View gels using long wave UV for extended periods of time reducing photo nicking damage, Compact size, High Performance, Stainless steel filter assembly, Single Intensity 254/302/365nm UV, Filter Size 20 x 20cm. USA, Western EEC, Japan, UK or equivalent	1	
36	Vacuum drying oven: Capacity: 30 Lit. Vacuum Range: 10 ~ 750 mmHg. Temp. Range / Sensor: Ambient +5°C to 200°C. Accuracy/Uniformity: + 0.5°C at 100°C / +2.0°C at 100°C. Heating Power/Consumption: 300W x 2ea. Heat-up Time: 50 min. to 100°C, 90 min. to 150°C. Display: Digital LCD with Back Light. Digital Fuzzy Controller with Jog-Dial Switch (Turn & Push).Resolution: Control: +1.0°C, Display: +1.0°C. Shelves: Included 2ea Aluminum Shelves. Safety Circuit: Over Temp. And Over Current Protector. Material: Internal: Stainless steel (#304), External: Powder Coated steel, dimension (W x D x H) Interior (mm): 300 x 330 x 300; Dimension (W x D x H) Exterior (mm): 507 x 483 x 577; Vacuum Inlet Valve Size: od. 10 mm; Net Weight: 56 kg, Power Consumption: 600 W. Power Supply & Cord Plug: AC 230V, 50 / 60Hz; With Vacuum Pump, Max. Power: 220 W; Max. Current: 0.9 A; Max. Vacuum: - 670 mmHg; Max. flow rate: 80 l/min; Motor rotation: 1450 RPM; Horse power: 1/3 HP; Noise level: 68.0 dB; Port thread: 3/8 inch (8 mm); Net weight: 7.6 kg; Dimension (LxWxH): 34.5x17.5x20 cm; Power Supply: 220V/50Hz. USA, Japan, Germany, UK or equivalent	1	
37	Vortex: Speed Range: 0 ~ 3,300 rpm. Shaking Motion: Orbital. Control: Analog Phase Controller. Material: Aluminum Die-casting with Powder Coating. Dimensions (W x D x H) (mm): 160 x 128 x h145 mm. Weight: 3 kg Power Consumption: 30 W. Power Supply & Cord Plug: AC 230V, 50 / 60Hz. USA, Japan, Germany, UK or equivalent	2	
38	Water Distillation & deionization system:	1	



Sr#	Item Description (Zoology Lab Equipment)	Qty	Unit price with all taxes (Rs)
	Capacity (Liters/hr.) 4, Output Quality of distilled Water pH 5.0 – 6.5, Conductivity $\mu\text{S}/\text{cm} < 2.5$ (depend on water), Resistivity mega ohm-cm 0.4, Temperature $< 35^\circ\text{C}$, Heater / Wattage Silica / 2 x 1.5kw. Feed water pressure 1 to 6 bar, Manganese and iron content $< 0.05 \text{ mg}/\text{l}$, Free chlorine content $< 1 \text{ mg}/\text{l}$, Silt density index (SDI) max. 3, Type 1 ultrapure water, Particle and bacteria content $< 1 \text{ CFU}/\text{ml}$, Type II pure water, Pure water conductivity 15-10 $\text{M}\Omega \times \text{cm} \triangleq 0.067\text{-}0.1 \mu\text{S}/\text{cm}$, Pure water performance at 15°C 12 l/h, With tap water input Spare cartridges 3 sets. Germany, USA, Japan or equivalent		
39	Autoclave Digital Microprocessor controlled: Capacity: 60 Lit, Temp. Range & Accuracy: Ambient $+5^\circ\text{C}$ to 132°C , $+0.5^\circ\text{C}$ at 121°C . Pressure & Gauge: 1.2 kgf/cm^2 at 121°C / 2.0 kgf/cm^2 at 132°C , 0 ~ 3 kgf/cm^2 . Sterilization mode: Solid- or Liquid-mode, Heating Power/Consumption: 3 kW. Timer & Alarm: 60 min, Error status & Timer-end, Display: Digital LCD with Back-Light. Digital Fuzzy-Control System. Door & Closing System: Lever-type Sliding Door. Electronic Door Closing System, Safety Circuit: Material: Stainless steel (#304)-Pressure Vessel, Powder Coated steel-External, Basket: 2ea of Stainless steel Wire Baskets are Included Basket Dimension (mm): Dia. 320 x h240, Power Supply: AC 230V, 50/60Hz. USA, Japan, Germany, UK or equivalent	1	
40	Cold Cabinet: Max. Flow 225L/h @ 0 head Max. Rec. head 35m Tank capacity 11L Sound level@1m 60dB (A) Power supply 230 VAC, 0.38A, 50/60Hz. Max. Water temp 40°C / 104°F Inlet/outlet 50mm in, 10mm out IP Protection IP21 Safety switch 3.0A Normally closed. USA, Japan, Germany, UK or equivalent	2	
41	Compact Digestion System Kjhalhdal: Microprocessor built-in the case. All programs can have up to 18 steps for temperature/incubation. Sample size: Solids: 5 gr. (macro), 1 gr. (micro). Liquids: 15 mL. (Macro), 3 mL. (Micro). H x W x D in mm: 740 x 355 x 565. Temp. $^\circ\text{C}$: 450. Power W: 2000. USA, Japan, Germany, UK or equivalent	1	
42	Cryotome with all accessories: Temperature Range: Cryochamber: -35 to 0°C (-31 to 32°F) Temperature Range, Cryobar: -55°C (-67°F) to chamber temperature. Specimen Head (14011-026 only): -40 to 0°C (-40 to 32°F) (Within $\pm 10^\circ\text{C}$ of chamber temperature). Temperature Range: Electrical: 115 V, 60 Hz. USA, Japan, Germany, UK or equivalent	1	
43	Elisa Reader: Latest LED technology and high quality data. 21 CFR part 11, and EC/98/79 IVD-D compliant LT-com PC control, data analysis software. Fast and accurate results- 8 channel (+1 reference). Proven reliability - Tested reliability of $> 100,000$ plates. Shaking - Linear shaking with four modes. 405 nm - PNPP ELISA substrate. 450 nm - TMB ELISA substrate 492 nm - OPD ELISA substrate. 620 nm - ELISA reference filter Wavelength range 400 – 750 nm. Measurement range 0 – 4 OD. Resolution 0.0001 OD. Washer: Residual Volume $< 1 \mu\text{l}$, Wash Volume 10 – 3,000 μl , Wash Cycles Up to 99, Soak Time 0 – 24 hours, Shake Time 0 – 24 hours, Plate Types 96 well flat, round and v-bottom, Bottle Capacity 2 l, Supplied Bottles 3 x wash and 1 x rinse, Memory 100 user-defined wash protocols, 10 plate types, Display 5" LCD. Pure sine wave UPS backup for 2 hours with dry batteries. USA, Germany, Japan, UK, Australia or equivalent	1	
44	Laminar Flow hood: 5 ft., HEPA filter, UV light, Horizontal/ Vertical. USA, Japan, Germany, UK or equivalent	1	
45	Liquid Nitrogen cylinder: Tank Capacity: 3000lits, with liquid electronic display. size:80Cuft, USA, Japan, Germany, UK or equivalent	1	
46	Microtome Machine: Nominal supply voltage: 100 – 240 V AC $\pm 10\%$; Nominal frequency: 50 / 60 Hz ; Power draw: 20 VA (CUT 5062); Protective class: (I) I ; Power fuses:	1	



Sr#	Item Description (Zoology Lab Equipment)	Qty	Unit price with all taxes (Rs)
	2x T 1,6 A ; Pollution degree: (1) 2; Maximum heat emission: 20 J/s (CUT 5062); Operating temperature range: +10 °C to +35 °C ; Temperature range during storage: +5 °C to +55 °C ; Relative humidity: max. 80% non-condensing ; Humidity during storage: < 8% ; Section thickness setting range: 0.5 – 100 µm ; Section thickness selection: 0 - 2 µm in 0.5-µm steps, 2 - 20 µm in 1-µm steps, 20 - 50 µm in 2-µm steps, 50 – 100 µm in 5-µm steps; Trimming thickness: 0 – 300 µm .Specimen feed: 28 mm (step motor) ; Specimen feed speed SLOW: 75 / 150 / 300 / 600 µm/s ; Specimen feed speed: 3000 µm/s ; Specimen feed memory: 2 positions programmable ; Vertical specimen stroke: 60 mm ; Maximum specimen size: 50 x 50 mm ; Knife holder - north-south axis: 24 mm ; Specimen retraction: 0 -200 µm, selectable; Specimen orientation, horizontal: 8° Specimen orientation, vertical: 8° ; Specimen orientation, z-axis: 360°; Dimensions [W x D x H]: 480 mm x 610 mm x 350 mm; Weight: 33 kg ; Standard Accessories: Blade holder, base assembly, 3-component-blade holder applicable for low and high profile. Disposable blades, High-Profile Back-Plate, Universal-Cassette-Clamp, orientable 10 pkt of 50 disposable blades. USA, Japan, Germany, UK or equivalent		
47	Protein-Nitrogen Distiller: Performance Measurement range: de 0, 1 a 200 mg de N; Nitrogen recovery: 99, 5 %; Reproducibility: ± 1 %; Distillation time: 4 minutes for 100 mL; Cooling water consume: 1, 2 L/min.; Electric power: 2000 W (100%). Number of Programs: 20 user programs; Programmable parameters and values ; Water for dilution: 0-200 mL; NaOH solution: 0-200 mL;H3BO3 solution: 0-200 mL; Reaction time (delay): 0-30 minutes; Distillation time: 0-30 minutes or indefinite; Steam power regulation: 30-100%; Supplied with the following Accessories: 2 containers of 10 liters for H2O, NaOH and 1 container of 5 liters for H3BO3; water Container: 10L;NaOH Container: 10L;H3BO3: 5L;H x W x D mm: 740 x 380 x 340; Power W: 2000. USA, Japan, Germany, UK or equivalent	2	
48	Sonicator: Time unit H62-920, normal operating frequency 23 KHz., titanium prob end diameter 19 mm. USA, Japan, Germany, UK or equivalent	1	
49	System for Karyotyping and FISH: Microscope with attached camera, LCD monitor, Karyotyping and FISH software license, Filter blocks and system compatible computers. USA, Japan, Germany, UK or equivalent	1	
50	Spectrophotometer UV Visible: Monochromator, 190-900nm, spectra band pass 0.1, 0.5, 1, 2, 4 & 5nm (6 steps), starry light 0.00025%, wavelength accuracy +0.1nm, wavelength setting repeatability +0.05nm, photometric mode Abs, %T, %R, E(S), E(R), photometric range Abs +5.5 & 0 to 300%T, photometric accuracy. +0.002Abs (0 to 0.5Abs), +0.003 Abs (0.5 to 1.0Abs), +0.006Abs (1 to 2Abs), +0.3%T, photometric repeatability +0.001Abs (0 to 0.5Abs), +0.0015 Abs (0.5 to 1.0Abs), +0.003Abs (1 to 2Abs), +0.1%T, baseline flatness +0.0004 Abs, baseline stability within 0.0002 Abs/Hr., wavelength scan speed 1.5, 3, 15, 30, 60, 120, 300, 600, 1200, 2400nm/min, light source adjustment free D2, adjustment free tungsten iodine, photomultiplier, double beam, LCD display. USA, Germany, UK, Japan or equivalent.	1	
51	CO2 incubator: Microprocessor controlled with LED/ CO2 level. Direct heat/ water Jacketed temperature controlled system. Integrated sterilization cycle at +160, temp range: +20-+45, Uniformity ±0.2°C at 37°C, accuracy ±0.1°C. CO2 Range: 0-20%, Capacity: 150 L, plus CO2 gas cylinder. USA, Japan, Germany, UK or equivalent	1	



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Evaluation Criteria is as under:-

MANDATORY REQUIREMENTS FOR EVALUATION

Category	Description	Points
Mandatory Requirements	Proof of registration of business	Mandatory
	Valid Income Tax Registration (Status = Active with FBR)	Mandatory
	Valid General Sales Tax Registration (Status = Active with FBR)	Mandatory
	Submission of undertaking (Annex-A) on legal stamp paper and (Annex-B) on firm's letter head.	Mandatory
	Technical/Financial proposal on the company letter head duly signed/stamped along with detailed specification.	Mandatory
	Supply order of relevant item(s) must be attached with technical offer.	Mandatory



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(Annex-A)

**CERTIFICATE
(On Legal Stamp Paper)**

1. We do hereby affirm that we have read carefully the terms and conditions of tender documents for the purchase of Lab items. We shall abide by all the terms and conditions/Instructions, rules and regulations of Government & GSCWU, Bahawalpur which are and to be applicable.
2. Our firm is not black listed on any ground by any Government (Federal/Provincial/District), on account of submission of false statement and failure to abide by the terms and conditions. In case of false statement, GSCWU may take legal action against contractor.
3. Certified that the prices quoted are not more than the prices charged from any other Government/Purchasing agencies. If prices are found higher or in case of any discrepancy, the bidder hereby undertakes to refund the price charged in excess.
4. Certified that the prices quoted by our firm are inclusive of all taxes and charges of transportation/handling/fixing/commissioning/training (FOC)/installation etc. and no extra charges will be claimed.
5. Certified that the stock is available of the quoted items in the bid and firm is bound to supply in the prescribed period.
6. Certified that the firm will be responsible for the free replacement of items on his own expenses, if the same is found substandard and or at variance with the specifications given in the tender during warranty period

1	Name of Firm	
2	Address	
3	Income Tax No.	
4	Sales Tax No.	
5	Name of bidder	
6	CNIC No.	
7	Signature of bidder	
8	Company/Firm Stamp	
9	Registration Year	
10	Year of paid professional tax	
11	Contact #	
12	E-mail	



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(ON LETTER PAD OF THE FIRM DULY SIGNED & STAMPED)

Price Reasonability Certificate

(On letter pad of the firm duly signed & stamped)

I M/S ----- do solemnly declare that "the prices quoted to The Govt. Sadiq College Women University, Bahawalpur are not more than the prices charged from any other Government/Purchasing agencies. If prices are found higher or in case of any discrepancy, the bidder hereby undertakes to refund the price charged in excess".

Certificate of Availability of Stock Quoted

(On letter pad of the firm duly signed & stamped)

I M/S-----do solemnly declare that "the stock is available of the quoted items in the bid and firm is bound to supply in the prescribed period"

Certificate of Physical Features of Quoted Items

(On letter pad of the firm duly signed & stamped)

I M/S ----- do solemnly declare that "the physical features of quoted products/ items mentioned in the Technical Bid are same as in Financial Bid and Firm is bound to supply without change" and shall provide on-site back-up support during warranty period.

Certificate of Inclusion of all Taxes and Others

(On letter pad of the firm duly signed & stamped)

I M/S -----do solemnly declare that "the prices quoted by our firm are inclusive of all taxes and charges of transportation/handling/fixing etc and no extra charges will be claimed.

Certificate of Free Replacement of Items

(On letter pad of the firm duly signed & stamped)

I M/S -----do solemnly declare that "the firm will be responsible for the free replacement of items on his own expenses, if the same is found substandard and or at variance with the specifications given in the tender during warranty period".

Certificate of Non-concealment of Information

(On letter pad of the firm duly signed & stamped)

I M/S -----do solemnly declare that "the information furnished herein and as per the document submitted is true and correct and nothing has been concealed or tempered with. I have gone through all the conditions of tender and is liable to any punitive action for furnishing false information/document".



Terms and Conditions

1. After the completion of technical evaluation, the GSCWU Bahawalpur shall inform the date, time and location for opening of the financial proposals.
2. The rates validity of tender will be up to 180 Days from the date of opening of tender.
3. Prices of individual items must be quoted separately inclusive all taxes.
4. The firm should mention make/made/model of offering item clearly in its technical bid in accordance with the required specifications.
5. Valid authorized certificate from the manufacturers/foreign principals must be attached with the technical proposal (where applicable).
6. GSCWU will not pay any reimbursement against any visit of vendor to the office. All expenses will be borne by firm.
7. The bid found without bid security shall be rejected and returned to the bidder.
8. The items supplied must fulfill the required specifications as mentioned in the tender document. The quoted solution should be single brand and lowest evaluated bidder will be responsible for the supply, installation and training.
9. The contractor may visit the place/university before participation in tender.
10. GSCWU will not pay any reimbursement against any visit of vendor to the office. All expenses will be borne by vendor/contractor.
11. The firm shall provide supply order(s) of relevant work/nature from other government department(s) to show its expertise.
12. GSCWU reserves the right to decrease/increase/withdraw the quantity/item without consultation as and when required as per requirement and available budget.
13. The successful bidder shall execute a written agreement just after the award of the work.
14. GSCWU may ask the lowest bidder for any clarification/providing of documents for satisfactory evaluation of offer.
15. On finding substandard quality or lower specification or missing element as and when noticed during process, the security deposited shall be forfeited in favor of the GSCWU. The purchaser also reserves the right to purchase the material from elsewhere without any notice at the risk and cost of the defaulting contractor.
16. The payment shall be subject to satisfaction of all items duly certified by the inspection committee or user or initiator. Findings of the inspection committee will be binding on the supplier.



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The Government
Sadiq College Women
University Bahawalpur Pakistan

17. The supplier is liable to produce its product as a whole consignment within time period mentioned in supply order failing which a penalty shall be imposed.
18. The contractor shall not subcontract or assign its obligations under the contract, in whole or in part. The contractor shall arrange and undertake a comprehensive training and orientation **(free of cost)** for the staff nominated by the procuring agency to ensure that they shall acquire a good working knowledge. The successful bidder will provide one year warranty for installation/replacement/training/repair of parts alongwith the services at site.
19. **The bidder(s) will provide free installation/replacement/training/repair of parts alongwith the services at site for all the items during warranty period.**
20. The bidder should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended and not be the subject of legal proceeding for any or forgoing.
21. The contractor is advised to observe the safety precautions, any mishap/damage to GSCWU Bwp property due to negligence of contractor or his representative or any of his workers would only be borne by contractor.
22. Procurement shall be governed by the Punjab Procurement Rules, 2014.
23. In case of any dispute, the decision of the Vice Chancellor shall be final.