



Office of the Treasurer

Cholistan University of Veterinary & Animal Sciences, Bahawalpur

Near DHA, Bahawalpur-Pakistan

Office: +92-62-9255718, 9255731

www.cuvas.edu.pk

TENDER NOTICE

PROCUREMENT OF PLANT & MACHINERY, LABORATORY EQUIPMENT, GLASSWARE AND ANIMALS FOR "ESTABLISHMENT OF RESEARCH CENTER/INSTITUTE FOR LIVESTOCK NUTRITION AND FORAGE RESEARCH IN CHOLISTAN"

TENDER No. 01/2023

Cholistan University of Veterinary and Animal Sciences, Bahawalpur invites tender "FOR basis" on single stage two envelop basis (sealed) the bid shall be a single package consisting of two separate envelopes, containing separately the financial and the technical proposals. The envelopes shall be marked as "FINANCIAL PROPOSAL" AND "TECHNICAL PROPOSAL", separately, for supply of the above titled material(s)/Services as per Punjab Procurement Rules-2014 (amended) from all Income Tax, Punjab Sales Tax (PRA), General Sales Tax and Professional Tax registered firms for the **PROCUREMENT OF PLANT & MACHINERY, LABORATORY EQUIPMENT, GLASSWARE AND ANIMALS FOR "ESTABLISHMENT OF RESEARCH CENTER/INSTITUTE FOR LIVESTOCK NUTRITION AND FORAGE RESEARCH IN CHOLISTAN"** Immediately after publication/announcement of the tender notice, the bidding documents will be available on university website as well as on PPRA website. Original paid deposit slip of tender fee Rs,1,500/- must be deposited into Account title " **CHOLISTAN UNI OF VET & ANI SCI BWP** " A/c. No, **1752-79010215-03** in any branch of Habib Bank Limited, should be enclosed with the bid.

The Sealed quotations complete in all respect should reach in this office by **07-02-2023** till **11:00 a.m.** along with 2% Bid Security of Estimated Price in the form of CDR in the favor of "**Treasurer CUVAS, Bahawalpur**". The quotations will be opened on **07-02-2023** at **11:30 a.m.** in Administration Block, 1st Floor, Treasurer Office Meeting Room, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.

Convener Procurement Committee
Cholistan University of Veterinary and
Animal Sciences, Bahawalpur



Tender No. 01/2023

Bidding Documents

SPECIAL INSTRUCTIONS

- No Cutting erasing is allowed in the Tender bid.
- Bid offered strictly in accordance with the bid document will only be accepted.
- Only typed bid will be accepted (no hand written)
- Bid Security will be accepted in the form of CDR (Call Deposit Receipt)

THIS IS FOR STRICT COMPLIANCE, FAILING WHICH THE RESPECTIVE BID SHALL STAND CANCELLED

**Contact Address:
Assistant Treasurer/Incharge Purchase Cell
Cholistan University of Veterinary and Animal Sciences,
Near DHA Bahawalpur
Tel: 062-9255718,731**

TERMS & CONDITIONS

1. The price of this tender document is Rs.1,500/- (Non-Refundable)
2. The Tender complete in all respect along with 2% Bid Security of Estimated Price / Cost in the shape of only "Call Deposit Receipt" (CDR) in favor of "Treasurer, CUVAS", Bahawalpur should reach in Treasurer office by **07-02-2023** at **11:00 a.m** in the Cholistan University of Veterinary & Animal Sciences, Bahawalpur.

3.

Lot No.	Description	Bid Security (Rs.)
1	PLANT & MACHINERY	147200/-
2	LABORATORY EQUIPMENT	232000/-
3	ANIMALS	137800/-
4	GLASSWARE	17000/-

4. The Technical proposals will be opened on 07-02-2023 at 11:30 a.m. in Administration Block, Treasurer Office, Meeting Room, 1st Floor, Cholistan University of Veterinary and Animal Sciences, Bahawalpur.
5. The offered price should be inclusive of all taxes.
6. The rate must be quoted only in Pakistani Rupees.
7. Quoted rates must be valid for 90 days.
8. No offer shall be considered if it is:
 - a) Submitted without Tender Document.
 - b) Submitted without Bid Security money.
 - c) Received after the date and time fixed for the receipt of tenders.
 - d) Is unsigned.
 - e) Is ambiguous.
 - f) Is conditional.
 - g) Is given by the firm black listed, suspended or removed from the approved list by any Government, Semi Government, Autonomous Bodies or other firm.
 - h) Is received by Telegram.
 - i) Is received with a validity period shorter than the required in the tender enquiry.
 - j) Does not confirm to general conditions of the enquiry i.e it is not accompanied by sample or manufacturers literature where required.
 - k) for store materially and substantially different from that required in the tender enquiry.
9. 10% amount as performance security will be deducted from the bills of the firms at the time of payment of total of the supply order which will be retained, for at least three months after delivery of Items mentioned above or till the warranty period which ever will be later, by the Treasurer CUVAS Bahawalpur. In case of non-warranty items performance guarantee/security will be refunded/released after three months subject to the satisfactory report from the end user.
10. The sample may be provided as & when required by Technical Committee.
11. Applicable Govt. levies will be deducted at source from the bill.
12. The equipment / stores supplied by the bidder shall be brand new, in original manufacturer packing and complete in all respects. Cost of transportation of supplied equipment / goods to the site of university and cost of installation and commissioning of equipment shall be the responsibility of the supplier.
13. Supply of material should be made within stipulated period of the Purchase Order positively; in case of failure the amount of CDR may forfeited and purchase will be made at the risk and cost of the defaulter or any penalty as decided by the purchase committee of the University can also be imposed.
14. The buyer shall notify the supplier in writing/through telephone of any defects that occur during the warranty period. On receipt of such notification/telephonic message the supplier shall attend the breakdown call within a maximum of 6 working hours.
15. The firm offering prices for supply of machinery and equipment should have sufficient qualified technical staff and be equipped and having capability to undertake the maintenance or replacement for the equipment supplied to this University.
16. The successful venders will attach the stamp duty of 0.25% or Rs. 1200/- (whichever is greater) of total value of the contract / purchase order at the time of signing of contract.
17. The bidding documents should be dropped in Tender Box in the office of the treasurer, 1st Floor, CUVAS, Bahawalpur, during five working days till the last date mentioned in tender notice.
18. Bids must be quoted on company's letter pad duly signed stamped by the bidder
19. Please attach NTN, GST and professional tax certificates with bidding documents.

20. Please attach the copy of your FBR Active taxpayer serial Number list for the current financial year.
21. Please read, sign all the tender documents, terms and conditions carefully and attached with your bidding documents.
22. Any further information if required can be obtained from Purchase Cell, CUVAS, Bahawalpur.
23. In case the contractor fails to execute the contract satisfactorily, the amount of security shall be forfeited. The security shall be released after satisfactory completion of the contract on production of report to the effect issued by the committee constituted for the purpose and expiry of successful warranty period.
24. On finding substandard quality or lower specification as and when noticed during process, the security deposited shall be forfeited in favor of the CUVAS Bahawalpur. The purchaser also reserves the right to purchase the material from elsewhere without any notice at the risk and cost of the defaulting contractor.
25. All pages of the tender document should be signed and stamped by the bidder.
26. CUVAS reserves the right to decrease /increase the quantity without consultation as and when required as per requirement and available budget.
27. CUVAS may ask the lowest bidder for any clarification/providing of documents for satisfactory evaluation of offer.
28. The payment shall be subject to the satisfaction of all items duly certified by the inspection committee/end user. Findings of the inspection committee will be binding on the supplier.
29. Quantity of Items can be increased or decreased (Fully or Partially) at the time of issuance of Purchase / Supply Order keeping in view the budgetary provision or any other reason thereof.
30. Payment will be made by the Treasurer CUVAS Bahawalpur after clearance of inspection/technical committee notified by competent authority after the quarantine period of one month after delivery.
31. Cost of transportation of animals to the site of university and cost of vaccination as well as deworming shall be the responsibility of the supplier.
32. Supply of animals should be made within stipulated period of the Purchase Order positively; in case of failure the amount of CDR may forfeited and purchase will be made at the risk and cost of the defaulter or any penalty as decided by the purchase committee of the University can also be imposed.
33. The buyer shall notify the supplier in writing/through telephone of any defects that occur during the quarantine period. On receipt of such notification/telephonic message the supplier shall attend the breakdown call within a maximum of 6 working hours.
34. Price of animal will be including transportation (delivered at CUVAS Bahawalpur)
35. Quarantine period will be maintained by the vender up to one month.
36. The vendor should quote the price of animal in per kg live-weight
37. Animals should be vaccinated against all epidemic diseases (Foot and mouth disease, Hemorrhagic septicemia, lumpy skin disease) after one month of delivery by the vendor
38. Animals should be free from ecto and endo parasite (dewormed by the vendor)
39. Animals should be free from disease, injury or any other abnormality.
40. In case of purchase of animals, the vendor should be registered, tax payer/filer, have past profile of supply of animals to government institutions under PPRA rules, have good financial profile and 3-5 years experience.
41. The CUVAS has rights to cancel the specific item or whole tender without any prior notice

We, M/s. _____ hereby certify that we have read and agreed with all terms and conditions mentioned above.

Signature: _____

Designation: _____

Dated: _____

Stamp: _____

Assistant Treasurer/
Incharge Purchase Cell
Cholistan University of Veterinary and Animal
Sciences, near DHA, Bahawalpur
Tel: 062-9255718, 131

TENDER DOCUMENTS

PLANT&MACHINERY, LABORATORY EQUIPMENT, ANIMALS AND GLASSWARE

A. Plant and Machinery

S. #	Article	Qty	Specifications	Origin
1	Air conditioner 1.5 ton	5	Silver/Black/White Panel Full DC Inverter Heat & Cool Low Voltage Start-up 3 in 1 filter Bigger Indoor Capacity (BTU) Cooling 18000 Power Supply From Indoor unit Gas Pipe Size 12.7mm(1/2") Liquid Pipe Size 6.35mm(1/4") Maximum Piping Length 17 meters 100% Capacity Piping Length 3-4 meters Maximum Elevation 7 meters Applicable Room Size 20-30 Warranty 1 years(3 years for compressor)	Local / imported
2	Air conditioner 2 ton	3	Air Conditioner Heat & Cool Option Golden Fin Condenser Upto 75% Saving Turbo Cooling Soft Start Zero Current Impact Capacity 2.0 Ton Type Wall Mounted Inverter Yes Energy Efficient Good Warranty 3 Years Warranty	Local / imported
3	Generator 50 KV	1	Diesel Generator Frequency = 50 Hz Ampere per phase = 76 Amp Engine: - No. of cylinder = 04 Nos. Turbo Charger Speed 1500 Rmp Cycle 4 stroke speed Radiator Cooling system air flow Total lubricant system Alternator: Prime rating 50 KVA Voltage 415/220-3 phase Manual/Automatic ATS System Earthing & Power cable as per site Requirements Canopy: Pad mounted Soundproof Fuel tank 150/200 Ltr Warranty: 20 Months or 1200 hours.	Imported / local
4	Silage chopper	1	Capacity: 4-8 ton/hr, Cut size 6-36 mm, Blades 6-12, Power source Tractor, Required power 60-90 HP, Transmission system Cardn & Gearbox/belt, Weight < 1000 kg, Complete accessories, with warranty	Imported / local
5	Fodder cutter	1	Fodder cutter equipped with knives built in special and hardened steel, Capacity 1000-1500 kg/hr, Tractor operated, semi-automatic, adjustable blades, Complete accessories, with warranty	Imported / local
6	Mobile Milking Machine	2	2 years pump warranty and 6 months warranty of other parts, Galvanized vacuum tank Dedicated milk stopper 2 30 liters buckets,	Imported
7	Milk Chiller	1	American food grade sheet 304 Glycol Pad American 4 way reverse gas system Platted system not copper coil Electricity consumption 4 amp Evaporating System Hi tech ultra brand Modern technology Which maintain Milk quality Different capacities available in Round & D shape Reasonable price with 1 year warranty 3000 Liter	Imported/ local
8	Water dispenser	3	Taps 2 Fridge Cabinet Yes Capacity 4 Liters Child Safety Lock Indicator LEDs, with warranty	Local/ imported

9	Office Refrigerator	2	Full size, Cooling method: Direct Cool Color: Golden Gross capacity Ltr: 276 Ref Capacity Ltr.: 169 Freezer Capacity Ltr.: 77 Net Capacity: 246 Net Weight (Kg): 50 Gross Weight (Kg): 54 Dimension(H*W*D): 1515*550*560 Voltage Range: 125V-260V/50Hz Climate: T Refrigerant: R 600a Compressor: Regular Freezer shelf: Wire/2 Freezer Door pocket: 2 REF Shelf: Wire/3 REF 1.5L big door pocket: GPPS/1 REF small door pocket: GPPS/2 Ice tray: 2 LED Light: Yes Crisper Cover: Safety Glass/1 Crisper: GPPS/1 Egg tray: PE (8*2) Series: E-Star, with warranty	Local / imported
10	Spray machine for wheat straw treatment	2	Spray machine having capacity 10-15 L. Easy to use. With automatic pressure relief protection and relief design, There is the lock switch on the spraying. It should be compatible with most commercial liquid fertilizers, weed killers, pesticides, herbicides, fungicides, etc. Material: plastic with belts to use.	Local / imported
11	Lab fodder chopper /chaff cutter	1	Small size, light weight, lower noise, long service life, particle size of 6-36 mm, 2-8 blades, Complete accessories, with wratt	Imported/ local
12	Fodder chopper (Tokka)	1	Mukamal Toka Machine Spare parts Toka With 2HP Toka Motor	Local
13	Weighing scale (for animals)	1	Animal Scale with Digital Display 7x3	Imported/ local
14	Water pumps	4	Pump Performance Data Max. Capacity: 15-30 Liters /min Max. Head: 38 m Max. Suction: 38 m Liquid quality requirement is clean and free from solids or abrasive substances and non-aggressive. Maximum temperature of pumps liquid: -15degCto+60degC Maximum ambient temperature: 40degC Maximum working pressure: 3.7 bar Application Water supply to remote dwelling i.e. farm-houses, general water supply, pressurized water using pressure vessels, irrigation and industrial applications. Water transfer and garden watering applications. Note: A foot-valve must be fitted to the injector also with the valve mounted to the outlet of the pump to ensure a suitable counter pressure during operation. The pipe connecting to the injector and the pumps body must always be fitted up before starting.	Local
15	Front blade	1	Front Blade: Power Dozer to fit to 375, 385, 260 tractor. Blade: 6' x 22" (Single ram) OR 6.5' x 30" –(Twin ram). Cutting Edge: 152 mm (6") x 12.7 mm (1/2") section high carbon/alloy steel reversible and replaceable. Hydraulic Ram: Heavy duty, double acting. Control Valve: Open center double acting spool valve. Blade movement: Maximum lift 533 mm (21"). Maximum depth below ground 102 mm (4").	Local
16	Front loader	1	Commercial Loader designed to hold, lift and tilt the bucket located at the end of two long arms with strength and safety. Hydraulically powered loader which provides the necessary power to lift the load. Loader Compatibility with 375, 385. Closed earth self-leveling bucket type with digging teeth. Bucket volume: 0.6 cubic meter. Bucket Size: 5.5'. Lifting Time: 8-12 sec. Max. Lifting Weight: 1000 KG. Operation: Hydraulic-Extra Pump PTO Drive Shaft-9 Plunger. Lifting Height at Pivot Point: 11.5 ft. Lift Ram: 2 Cylinders. Bucket Ram: 2 Cylinders. Control: 80 ltr 2 Spool Valve, 210 bar – Imported. Weight: Fixed (Size: L: 34" W: 32" H: 34"). Oil Tank: 80 Liter with Oil Filter & Oil Level Gauge.	Local

B. Laboratory Equipment

S. #	Article	Qty	Specifications	Origin
1	Flame photometer (for Na, K, Ca, Ba, Li)	1	<p>Flame photometer should contain 5 lumps (Na, K, Li, Ca, Ba). Ranges: - 120-160 mmol/l Na (linearised) 0-10.0 mmol/l K Limits of Detection: Na 0.2ppm - K 0.2ppm - Li 0.25ppm Ca 15ppm Ba 30ppm Ba 30ppm Reproducibility: 1% Coefficient of variation (C.V.) for 20 consecutive samples using 10ppm Na set to read 50.0. Readings taken at 20 second intervals. N.B. C.V. is defined as: the sample standard deviation X 100 mean reading and sample standard deviation as: Where x is the reading, x is the mean readings of the series and n is the number of readings. Linearity: Better than 2% when concentration of 3ppm Na and K and 5ppm Li are set to read 100. Specificity: Interference from Na, K and Li when equal in concentration to the test element will be less than 0.5%. Stability: Better than 2% over 5 minutes when continuously aspirating 10ppm, sample set to read 50.0. Zero drift better than 2% per hour.</p> <p>Linearity: Better than 2% when concentration of 3ppm Na and K and 5ppm Li are set to read 100. Specificity: Interference from Na, K and Li when equal in concentration to the test element will be less than 0.5%. Stability: Better than 2% over 5 minutes when continuously aspirating 10ppm, sample set to read 50.0. Zero drift better than 2% per hour. N.B. Note warm up requirement. Sample Requirements: Between 2 and 6ml/minute. Recorder Output: Nominal 1.00 volt for readout of 100.0. Warm Up: The flame must be alight for at least 15 minutes to ensure achievement of the above stated specifications. Services: Electrical: 90-125V or 190-250V @ 50/60Hz. Air: Moisture and oil-free. 6 litres/minute at 1kg/cm² (14psi). Fuel: Propane, buta</p> <p>Operating Environment: 15°C to 35°C Size: 420 x 360 x 300mm Including: CO₂ Cylinder & Regulator (Local Arrangement)</p> <ul style="list-style-type: none"> ▪ Flame photometer ▪ Printer (laser) ▪ Allied accessories, power supply, all accessories needed for installation ▪ Services and repair facilities should be available in Pakistan ▪ Dust cover 	Parts imported from UK/ Germany/Japan/ USA
2	Atomic absorption spectroscopy	1	<p>Atomic Absorption Spectrophotometer: The specification mentioned below is preferred. Any equivalent or better specifications shall be mentioned in detail Fully automated double beam spectrometer for fast multi-element flame atomic absorption and emission determinations. The system must be capable of determining at least 2-4 elements in a solution before moving to the next solution. Lamp support for minimum of 2-4 lamps required. Lamps must be manufactured by AA supplier to ensure quality and support Warranty on hollow cathode lamps must be at least 5000 mA hours or 12 months</p> <p>The instrument control software must be a 64 bit system. Compatible Computer System with Software Compatible Air Compressor must be oil free Fume Hood Required Gas Cylinder with regulator Required Multi element lamp: Ca, Mg, Cl, Na, K, Zn, Fe, Cu, Mn, Se, Co, Cr</p> <p>Standards of 1000ppm from the manufacturer for the above mentioned elements of capacity 500ml with traceable certificate.</p> <p>Automatic 2-4 lamp turret Wave length range:190-900nm</p>	UK / Germany/ USA or Equivalent

			<p>Wave length accuracy: $\leq \pm 0.5\text{nm}$ Wave length repeatability: $\leq 0.3\text{nm}$ (single direction) Spectrum bandwidth: 0.2nm, 0.4nm, 0.7nm, 1.4nm, 2.4nm, 5.0nm Resolution : $< 40\%$ Base line stability: $\pm 0.004\text{Abs}/30\text{min}$ Characteristic concentration of copper: $\leq 0.04\mu\text{g}/\text{ml}/1\%$ Detection limit of copper: $\leq 0.08\mu\text{g}/\text{ml}$ RS232 includes Background calibration ability: Greater than 30 times Power supply: 220V 50Hz</p> <p>Accessories include: Graphite Furnace system Hydride generators Recirculating cooling water system Cathode lamps for following Elements Ca, Mg, Cl, Na, K, Zn, Fe, Cu, Mn, Se, Co, Cr. Optional cathode lamps P, S, I Oil-free air compressor Glass Atomizer Cu Hollow cathode lamp Atomizer unit Burner unit Water-separating gas filter Titanium burner Hollow cathode lamp Graphite tubes Computer Software Laser printer Power supply and all accessories needed for installation, Services and repair facilities should be available in Pakistan Dust cover</p>	
3	Chemistry analyzer		<p>Veterinary Chemistry Analyzer: Testing time 12minutes/sample Temperature $37^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$ Resolution 0.001Abs Absorbance 0-3.0Abs Sample type Anti-coagulated whole blood, serum, plasma, The chemistry analyzer should have the ability to determine the blood minerals and other metabolic & biochemical tests. QC & Calibrate Real time full-auto finish Operational environment Temperature: $10-32^{\circ}\text{C}$; Humidity: $< 85\%$ Testing principle Absorption spectroscopy, transmission turbidimetry Testing method End point, kinetic, fixed time and turbidimetry Light source 12V/20W, halogen tungsten lamp's life span is over 2500 hours Electricity AC100V-240V , 50-60Hz Display Android 6.5 inch 800*480, multi-point capacitive touch screen Storage 4G, > 100.000 results Printer Built-in thermal printer Connector 2 USB ports</p>	USA/ UK/ Germany
4	Laboratory grinder	1	<p>Laboratory grinder/ feed sample grinder: Grinding system having uniform particle size in a variety of animal feed materials. Machine with characteristics of small volume, compact structure, continuous use, beautiful appearance, high crushing efficiency, able to adjust the fixed knife gap by the smash. The machine using a high-speed rotating rotary cutter and a fixed knife to form a cutting surface for pulverization of feed & fibrous materials, should result in low heat. Power 180-220W, Speed 1400r/min, Screen aperture: 0.5, 1.0, 1.5mm (one installed on the machine), crushing chamber diameter 102 mm, crushing effect 30-120 mesh, each crushing weight $< 50\text{g}$.</p>	UK, USA, Germany

C. Animals

Sr. No.	Species and Breed of Animal	Required Sex	Required Quantity	Age	Required Weight	Breed Characteristics
1	Cholistani cows	Female	30	At least 2 teeth	Not less than 280 kg	Color preferably black or red splashes/ spots on light hair coat, long tail switch, drooping ears, stumpy horns, moderate dewlap. Reasonably developed udder, free from mastitis, vaccinated, dewormed, free from endo & ecto parasites and without any defect. The cows should be preferably pregnant or lactating.
2	Cholistani candidate bull	Male	1	1-2 years	Not less than 130 kg	Cholistani males having black or red splashes/ spots on light hair coat. category B/A candidate bull
3	Cholistani cannulated bulls	Male	4	One year	Not less than 120 kg	Healthy, black or brown splashes/ spots on white hair coat
4	Nili-Ravi Buffalo cannulated bulls	Male	4	One year	Not less than 130 kg	Healthy, color black

D. Glassware

Sr. No	Name of glassware	Specification	Origin
1	Graduated glass pipette 10 ml	Autoclavable, Pyrex or Equivalent	USA/Europe or equivalent
2	Graduated glass pipette 5 ml	Autoclavable, Pyrex or Equivalent	USA/Europe or equivalent
3	Graduated glass pipette 1 ml	Autoclavable, Pyrex or Equivalent	USA/Europe or equivalent
4	Graduated glass pipette 0.5 ml	Autoclavable, Pyrex or Equivalent	USA/Europe or equivalent
5	Glass beaker 100 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
6	Glass beaker 250 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
7	Glass beaker 500 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
8	Glass beaker 1 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
9	Glass beaker 2 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
10	Plastic beaker 100 ml	Autoclavable, with lid/cap	Imported/Local
11	Plastic beaker 500 ml	Autoclavable, with lid/cap	Imported/Local
12	Plastic beaker 1 Liter	Autoclavable, with lid/cap	Imported/Local
13	Plastic beaker 2 Liter	Autoclavable, with lid/cap	Imported/Local
14	Glass volumetric flasks 1 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
15	Glass volumetric flasks 2 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
16	Glass volumetric flasks 500 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
17	Glass volumetric flasks 250 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
18	Glass volumetric flasks 100 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
19	Conical flask 1 liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
20	Conical flask 500 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
21	Conical flask 250 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
22	Conical flask 100 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
23	Conical flask 50 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
24	China crucibles (25 ml)	Cylindrical, High quality, Porcelain, flat bottom	Imported
25	China dishes	High quality, Porcelain	Imported
26	Glass petri dishes (pairs)	Autoclavable, A grade Borosilicate glass	USA/Europe or equivalent
27	Droppers small size	Standard, high quality	China/Local
28	Dropping bottles	Autoclavable, optimum drop flow rate and useable for high precision	Imported/Local

29	Wash bottles	500 ml capacity, Autoclavable	China/Local
30	Filtration flask with pump	High quality glass, conical shape, integral side arm	USA/Europe or equivalent
31	Auto burette 10 ml	High quality, suitable for titration	USA/Europe or equivalent
32	Rubber pipette filler	Rubber filler	Imported (preferably German)
33	Glass cylinder 10 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
34	Glass cylinder 25 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
35	Glass cylinder 50 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
36	Glass cylinder 100 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
37	Glass cylinder 250 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
38	Glass cylinder 500 ml	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
39	Glass cylinder 1 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
40	Glass cylinder 2 Liter	Autoclavable, with lid/cap, Pyrex or Equivalent	USA/Europe or equivalent
41	Plastic cylinder 500 ml	Autoclavable, with lid/cap	Imported/Local
42	Plastic cylinder 1 Liter	Autoclavable, with lid/cap	Imported/Local
43	Micropipette 0-10 ul	Single channel, large display, integral tip ejector, Easy calibration, with warranty	USA/Europe or equivalent
44	Micropipette 10-100 ul	Single channel, large display, integral tip ejector, Easy calibration, with warranty	USA/Europe or equivalent
45	Micropipette 100-1000 ul	Single channel, large display, integral tip ejector, Easy calibration, with warranty	USA/Europe or equivalent
46	Measuring pipette stand	Durable and Rotary, good quality, able to hold variable size pipette, autoclavable, chemical resistant	Imported/Local
47	Micropipette stand	Durable and Rotary, good quality, autoclavable, chemical resistant	Imported/Local
48	Thimble (reusable)	Thimble for Soxhlet apparatus, round bottom, temp resistant upto 100 degree Celsius, preferably German/equivalent	USA/Europe or equivalent
49	Eppendorf tubes (2ml)	2 ml capacity, autoclavable, with lid/cover	Imported/Local
50	Tips for micropipette	200 ul capacity (1000/pack)	Imported/Local
51	Tips for micropipette	1000 ul capacity (1000/pack)	Imported/Local
52	Falcon tubes 15 ml	Plastic made with screw cap, high quality, reusable, graduated	Imported/Local
53	Falcon tubes 50 ml	Plastic made with screw cap, high quality, reusable, graduated	Imported/Local
54	15 ml Falcon tube rack	Preferably steel made, easy to handle, good grip, maximum capacity	Imported/Local
55	50 ml Falcon tube rack	Preferably steel made, easy to handle, good grip, maximum capacity	Imported/Local
56	Glass Funnel (2")	Autoclavable, with rubber sleeve, Pyrex or Equivalent	USA/Europe or equivalent
57	Glass funnel (4")	Autoclavable, with rubber sleeve, Pyrex or Equivalent	USA/Europe or equivalent
58	Glass funnel (6")	Autoclavable, with rubber sleeve, Pyrex or Equivalent	USA/Europe or equivalent
59	Reagent glass bottles 1 liter	Autoclavable, high quality, screw cap	USA/Europe/China or equivalent
60	Reagent glass bottles 500 ml	Autoclavable, high quality, screw cap	USA/Europe/China or equivalent
61	Reagent glass bottles 250 ml	Autoclavable, high quality, screw cap	USA/Europe/China or equivalent
62	Reagent glass bottles 100 ml	Autoclavable, high quality, screw cap	USA/Europe/China or equivalent
63	Forceps	Stainless steel for handling glassware	Imported/Local
64	Tong	Stainless steel for handling glassware, easy and safe handling	Imported/Local
65	Stirring rod small	Autoclavable	China or equivalent
66	Stirring rod medium	Autoclavable	China or equivalent
67	Stirring rod large	Autoclavable	China or equivalent
68	Test tube 10 ml	Autoclavable	USA/Europe or equivalent

69	Test tube 18 ml	Autoclavable	USA/Europe or equivalent
70	Durham Tube	Autoclavable, screw cap	USA/Europe or equivalent
71	Test tube rack for 10 ml tubes	Plastic with good tube grip, Autoclavable, chemical resistant	Imported/Local
72	Test tube rack for 18 ml tubes	Plastic with good tube grip, Autoclavable, chemical resistant	Imported/Local
73	Test tube holder (wooden handle)	Stainless steel for handling glassware	Imported/Local
74	Hand lens	High quality glass lens suitable for feed microscopy	USA/Europe or equivalent
75	Stainless steel laboratory spatula	Standard (1 side spoon 1 side flat)	Imported/Local
76	Aluminum foil	Standard	Imported/Local

Technical Evaluation Criteria

The Technical proposals shall be evaluated by the technical evaluation committee in the light of following evaluation criteria:

Category	Description	Points
Legal (Mandatory)	Certificate of Company/Individual / Firm Registration/Incorporation under the laws of Pakistan.	Mandatory
	Valid Income Tax Registration.	Mandatory
	Valid General Sales Tax Registration (Status = Active with FBR as on the date of submission)	Mandatory
	Submission of undertaking on legal valid and attested stamp paper that the firm is not black listed by any of Provincial or Federal Government Department, Agency, Organization or autonomous body or Private Sector.	Mandatory
Eligibility Criteria	Organization anywhere in Pakistan. Must have 3 Years' Experience	Mandatory
	Compliance to the technical specifications of all items to be procured.	Mandatory

Mandatory Note:

- Verifiable documentary proofs for all above requirements are mandatory.
- Vendor/ Supplier will be responsible for installation and configuration of the supplied equipment in client environment as per client's requirements (where necessary)
- Brand and Model Number of quoted equipment must be mentioned. (Where applicable)
- Technical Brochures of quoted equipment must be attached. (Where applicable)

PROCUREMENT OF LABORATORY EQUIPMENT
TECHNICAL PARAMETERS

Category	Description		Marks
Relevant Experience (Max points 15)	3 to 8 years		5
	9 to 14		10
	15 and above		15
Financial (Max points 25)	Annual Turnover	Rs. 1 million	5
		Rs. 2 million	10
		Rs. 3 Million and above	15
	Audited Financial Reports	For the Past 3 Years	5 (1.67 per year)
	Income Tax Returns	For the Past 3 Years	5 (1.67 per year)
Relevant Projects in Govt. public sector university and Semi Govt. Departments (Minimum 03 Projects)	Cost of 3 Projects in the Past 5 Years Each project carries 10 Marks	Rs. 3 million and above	30
Human Resource (Max points 20)	Total Number of Employees including minimum 3 Designer / Professional	0 – 10	10
		20 – 30	15
		31 and above	20
Company Website	Accomplished with Complete Products and Details		5
At least 1 Repair / After Sale Service Satisfactory Certificate from Semi Government / Government Departments			5

Note:

- Verifiable documentary proofs for all above requirements are mandatory.
- Vendor/ Supplier will be responsible for transportation and installation of equipment in client environment as per client's requirements. (Where applicable)
- Sample may be provided within 7 working days if required.
- Passing marks will be 50 for technical qualification.

Convener Technical Committee