

**BAHAUDDIN ZAKARIYA UNIVERSITY,**  
**MULTAN.**

**TENDER DOCUMENT**

**For**

**LAB. EQUIPMENT FOR**  
**THE DEPARTMENT OF AGRICULTURE ENGINEERING**

**Last Date of Submission: 02.08.2017**

# **BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN**

[www.bzu.edu.Pk](http://www.bzu.edu.Pk)

Tel.# 9210071-5 Ext.1318

## **TENDER FORM OF THE BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN FOR THE YEAR 2017-18.**

### **Lab. Equipment for the Department of Agriculture Engineering ON F.O.R. Basis**

**Advertised Tender No. T/2017-18/03**

**Last Date of Receipt of Tender 02-08-2017 11:30 a.m.**

**Date of Tender Opening 02-08-2017 12:30 p.m.**

**Tender Price:- Rs.1000/- (Non-refundable)**

**Earnest Money @5% on Estimated Amount (Refundable)**

**VENUE TENDER: Treasurer Office B.Z. University, MULTAN.**

1. All tender must be submitted on their tender document with sealed envelope and addressed to the Treasurer, Bahauddin Zakariya University, Multan.
2. Any offer not received as per terms & conditions of the tender will be rejected.
3. Photocopy of CDR should be attached with Technical Bid.
4. No offer shall be accepted if:
  - (i) It is received after the time and date fixed for its receipt.
  - (ii) Received without earnest money from the firms.
  - (iii) The tender document is unsigned.
  - (iv) The tender is ambiguous.
  - (v) The offer is conditional.
  - (vi) The offer is from a firm, black listed /suspended or removed from the approved list.
  - (vii) The offer is received by telegram or Fax.
  - (viii) The offer is received with shorter validity than required in tender enquiry.
  - (ix) The offer is not conforming to specifications indicated in the tender enquiry.

## Detail

Sr. No.	Equipment	Specifications	Qty	Earnest Money @5% on Estimated Cost
1	Current meter (Flow meter)	Price Type/Pygmy type Current Meter along with standard accessories including wading rod set, Hand suspension cable, sounding weight, headphone set and canvas equipment bag, Analog to digital cable. Must have an origion from USA, Canada, UK, Europe or Japan	2	50,000
2	Standard Weather Station	The weather station should be able to measure, record, display and save the following metrological data: 1. Temperature 2. Wind velocity and Direction 3. Rainfall 4. Humidity etc. Must have an origion from USA, Canada, UK, Europe or Japan	2	
3	Surface Irrigation Display Board	To Support Classroom teaching in Irrigation comprising siphons, measuring flumes, weirs, notches etc	1	26,500
4	Sprinkler Irrigation Display Board	To Support Classroom teaching in irrigation comprising standard nozzles, low angle sector pop up and low volume sprinklers, rain gun, pressure and discharge regulators, filters etc. Must have origion from USA, UK, Japan, Europe	1	

5	Trickle and Drip Irrigation Display Board	To Support Classroom teaching in irrigation comprising selection of emitters: long flow path, pressure regulated orifices, discharge regulators, pipe couplings etc.	1	
6	Tensiometer	Range 50-2000, Accuracy, +-1% Full Scale	15	
7	Irrigation Systems Demonstration Model	Model indicating rainfall catchment area, reservoirs, rivers and water distribution system including different types water distribution of outlets (Masonry work) Must have origion from USA, UK, Japan, Europe	1	
8	Torsion and bending of beam apparatus	Bending and torsion of non circular beam, Max weight up to 50 N, max specimen length is 700 mm Must have origion from USA, UK, Japan, Europe	2	
9	Duplex Screw Efficiency Apparatus	The jack with heavy base and anchored to a base plate. The max 75 mm turntable is secured to the screw thread. A pulley and hanger assembly is provided to apply torque to the turntable. Must have origion from USA, UK, Japan, Europe	1	65,900
10	Bell Crank Lever Apparatus	Bench top model apparatus with all the components mounted on a flat panel. Must have origion from USA, UK, Japan, Europe	2	
11	Abrasion Tester	Standard apparatus for testing abrasion of engineering materials. Must have origion from USA, UK, Japan, Europe	1	
12	Portable Water Analyzer	Standard, Must have origion from USA, UK, Japan, Europe	1	
13	Chlorination Test Kit	Standard, Must have origion from USA, UK, Japan, Europe	1	65,425
14	Sewerage Effluent Test Kit	Standard, Must have origion from USA, UK, Japan, Europe	1	

15	BOD analysis Unit	Manually operated BOD bottles (30 Nos. ) with accessories, Must have origion from USA, UK, Japan, Europe	1	
16	COD Thermal Reactor for 30 vials	Variable Temp : 50 to 150 ° C and Variable Time Settings : 0 to 200 min, Must have origion from USA, UK, Japan, Europe	1	
17	Nitrogen Analyzer	Standard , 0 to 250 mg/L	1	
18	Sound Level Meter	Standard, Must have origion from USA, UK, Japan, Europe	1	
19	Centrifuge	Multi rotors, 200 to18000 rpm, Must have origion from USA, UK, Japan, Europe	1	
20	Vortex Mixer	Standard, High Speed, Must have origion from USA, UK, Japan, Europe	1	
21	Shaking Incubator	Temp : 10 to 200°C, 50 to 3000 rpm, Must have origion from USA, UK, Japan, Europe	1	
22	TKN steam distiller and Digester tubes	Standard, Tubes # 10, Must have origion from USA, UK, Japan, Europe	1	
23	Electrical System Demonstration Model of Tractors/Vehicle	All main components of electric system of tractor. Front and rear lights, turn indicators Emergency, Horn, Battery, Spark Plugs, Coil, Starter Motor Must have origion from USA, UK, Japan, Europe	1	
24	2-stroke single cylinder petrol engine model	Air cooled petrol engine in section moved by flywheel, Battery Supply, Must have origion from USA, UK, Japan, Europe	1	71,600
25	4-stroke single cylinder petrol engine model	Section of a 4-stroke engine showing all engine parts as well as valve gear, ignition and carburetor, moved by flywheel.	1	
26	4-stroke single cylinder diesel engine model	Demonstration of fuel injection pump and injection nozzle. Move by a fly wheel, Must have origion from USA, UK, Japan, Europe	1	

27	Wastegate Turbocharger	Composed by: centrifuge compressor, centripetal turbine, wastegate valve. On base 32x22x26 h.cms, Must have origion from USA, UK, Japan, Europe	2	
28	Video Motor Panel	Luminous educational panel for instructing important process like ignition, carburetion, lubrication and cooling. Visualized by lighting ON and OFF of a set of lamps giving the idea of the function	1	
29	Cooling system Demonstration model	standard for class teaching, Must have origion from USA, UK, Japan, Europe	1	
30	Boiling Point Measuring Apparatus	should be able to measure the boiling point of different fuels, Must have origion from USA, UK, Japan, Europe	1	
31	Flash Point Measuring Apparatus	should be able to measure the flash point of different fuels, Must have origion from USA, UK, Japan, Europe	1	
32	Rear Axle Model	composed by differential with crown, pinion, planets, drum brakes, Must have origion from USA, UK, Japan, Europe	1	
33	Speedy Moisture Meter	SPEEDY MOISTURE TESTER Speedy Moisture Meter, for a fast and accurate method of measuring moisture content in granular materials. Supplied within a case with integral balance, two tins of reagents and accessories. Height of working surface : 1 m above floor level, Must have origion from USA, UK, Japan, Europe	2	89,300
34	Plastic limit Apparatus	Glass plate 200 mm x 150 m operating dish having 120 mm dia bass rod 3 mm dia and 100mm long with spatula and moisture tin 55 mm dia,	2	

35	Shrinkage Limit Apparatus	Shrinkage dish of 45mm dia and 15mm deep prong plat of 1.25 mm thick square with three metal prong plane plate of 1.5 mm thick and 75mm square glass cup 50to 55 mm dia and 25 mm deep,	2
36	Pycnometer ( Specific gravity Apparatus)	Standard	2
37	Proctor Compaction Test Apparatus	Standard proctor Compaction test apparatus having mould internal dia 100 mm and height of 127.3 mm with base plate and collar of 60 mm height and rammer height 50 mm dia weight of 5.5 lb with free drop of 310 mm,	2
38	Modified Proctor Compaction Test Apparatus	Mould having internal dia of 100 mm and height of 127.3 mm with base plate and collar of 60mm height and rammer weight 4.89 kg and free drop of 450mm	2
39	Sand Cone Apparatus	Standard for determination of dry density of soil along with tray, Must have origion from USA, UK, Japan, Europe	2
40	Constant head Permeameter	Apparatus includes base stand with soil sample collector, sieves and Reservoir, Should be able to test and demonstrate hydraulic conductivity of soil sample using constant head method.	2
41	Falling head Permeameter	Includes, Base stand, Headers, Flow control valve, water tubes, Reservoir, Aspirator Bottles, Water storage tank, Should be able to test and demonstrate hydraulic conductivity of soil sample using falling hlead method.	2

42	Automatic level Telescope	magnification 32X, accuracy $\pm 1$ mm, magnetic damping system, nitrogen gas, Sealed inside telescope, compensator wires made of myler material with horizontal Circle and carrying case	6	104,975
43	Tripod for level	Telescopic Superior Imported for level.	6	
44	Precise Automatic Level	Magnification 32X, magnetic damped compensator, water and dust proof with dry nitrogen gas sealed telescope, compensator fitted with mylor Ribbons, Horizontal Circle read through a separate telescope, resolving power 2.5", range $\pm 15'$ , Accuracy 0.7mm, Stadia, constant -0. Circle division -10', Complete with optical micrometer, least count 0.1mm, with counter weight to be installed on eye piece of level, complete with standard accessories and carrying case	2	
45	Tripod	Folding adjustable Tripod for precise Level Imported.	2	
46	Leveling Staff 5M/16 FT Japan made	Leveling Staff 5M/16 FT 3-Fold	5	
47	Gunter's Chain	Gunters Chain, Engineer's Chain, Meter Chain	5	
48	Engineer's Chain	Standard	5	
49	Meter Chain	Standard	5	
50	Measuring Tapes	Metallic, Steel, Invar Tape	5	
51	Perambulator	Perambulator to measure the distances, Must have origion from USA, UK, Japan, Europe	5	
52	Steel Band	Steel Band	5	
53	Arrows	Standard	100	
54	Clinometers	Standard	5	
55	Open Cross Staff	Standard	5	
56	Optical Square	Standard	5	
57	Prismatic	Standard	5	



	Compass		
58	Trough Compass	Standard	5
59	Telescopic Alidades	Complete with plain table, Tripod, Plum bob, Fork etc. Imported set.	5
60	Planimeter	Digital	3
61	Ranging Poles	Standard	100
62	Abney Hand Level	Standard	5
63	Stereoscope with accessories	Standard	2
64	Self Reducing Electronic Telescopic Alidade	Measuring range 1.5 to 2.0 KM complete with imported plane table and Tripod.	1
65	Optical Range Finder	Range 100 meters, it provides distance after removal of Parallax fitted with eye piece, in a carrying case	4
66	Fiber Glass Leveling Staffs	Standard	4
67	GPS (Global Positioning System)	1.023 MHz chip rate, 20 channel all-in-view tracking	4

Note:

1. For all the Brands mentioned in this tender (if any), the term “or equivalent” is hereby added and shall be considered as per PPRA rules.
2. The firm should mention make/made/model (if any) of offering item clearly in the technical bid in accordance with required specification.
3. The firm should prepare Technical bid as per requirement of Tender Document and submit with clear heading “Technical Bid/Offer”.
4. Further, Company profile may be submitted (with supporting documents) in the sequence as required for Technical evaluation of firm/tender.
5. Technical bid/offer complete in all respect being submitted be paginated by the firm.

# Certificate

1. We / I hereby confirm to have read carefully the terms & conditions of your Tender Enquiry dated for opening on ----- for the purchase of -----.  
We agree to abide by all these terms & conditions/instructions.
2. Certified that the prices quoted against advertises tender dated-----are not more than the prices charged from any other purchasing Agencies in the country in the financial year ----- and in case of any discrepancy, we/I hereby undertake to refund the price charged in excess if and when asked to do so.
3. Certified that the prices quoted by our firm are inclusive of G.S.T and all taxes as per rules and regulations.

1. NAME OF FIRM-----
2. ADDRESS-----
3. INCOME TAX NO-----
4. SALE S TAX REGN NO-----
5. NAME OF TENDERER-----
6. NAME OF BANK AND A/C NO.-----
7. C.N.I.C NO.-----
8. SIGNATURE OF TENDERER -----
9. DATE AND STAMP -----

## CRITERIA FOR TECHNICAL EVALUATION OF THE TENDER

The quotation /bid who secure 60% marks will qualify for the competition.

<b>Sr. No.</b>	<b>Parameter</b>	<b>Weight age</b>
1	Technical Specification of Product	45%
2.	Age of Company/Firm	10%
4.	Financial strength of the vender	15%
5.	H.R. Strength	05%
6.	On site back up support	10%
7.	Relevant experience	10%
8.	Certified Engineer	05%
<b><u>Total</u></b>		<b>100%</b>

TENDER DOCUMENT

## TERMS & CONDITIONS

- i. Sealed bids are invited for the purchase of Lab. Equipment for the Department of Agriculture Engineering, B.Z. University Multan.
- ii. The interested bidders shall submit their bids under Single stage- two envelope procedures as defined by Govt. of Punjab Procurement Regulatory Authority.
- iii. The bidders will submit their bid in the two envelopes shall contain technical and financial proposals separately and clearly marked as "TECHNICAL PROPOSAL" & "FINANCIAL PROPOSAL" in bold letters. The financial proposal should accompany earnest money @5% of the Estimated Cost, in the form of call deposit in favor of the Treasurer, B.Z University Multan.
- iv. In the first stage, only the envelopes containing "TECHNICAL PROPOSAL" shall be opened in the presence of bidders (or their authorized representatives) who may like to attend the tender opening meeting.
- v. The "TECHNICAL PROPOSAL" shall be evaluated and no amendments in the "TECHNICAL PROPOSAL" permitted.
- vi. Financial bid will be opened after the completion of all codal formulation of evaluation of the Technical Bid on the date, and time which will be communicated to the bidders.
- vii. Financial bid will be opened for those bidders who submitted their Technical bids OR fulfill the Technical requirement in the presence of the bidders in case any bidder after written call will not be present at the time of opening due to any reason then any claim by him will not be accepted in future. Otherwise their Financial Bids shall be returned un-opened to the respective bidder.
- viii. Bahauddin Zakariya University, Multan reserves the right to drop any item given in the tender without assigning any reason and also reserves the right to reject any or all bids.
- ix. Sole distributor/Dealer/Reseller certificate (if any) should be attached with the bids.
- x. The quotations offering substandard product can be screened out to ensure quality procurement of Lab. Equipment.
- xi. The rates will be valid up for 120-days from the date of opening the tender.
- xii. A University Inspection committee will inspect the Lab. Equipment and further will recommend for payment.
- xiii. The firm must attach photocopy of income tax and Sales Tax Registration with the quotation, otherwise quotation will not be accepted.
- xiv. Attached proforma/Certificate should invariable be filled and submitted with the quotation.
- xv. All bids should reach the office of Treasurer, Bahauddin Zakariya University, Multan on or before **02.08.2017** at **11:30 a.m.** The bids will be opened on the same date at **12:30 p.m.**
- xvi. Price of each item should be mentioned including GST/ all Taxes applicable in Tender.
- xvii. The tender should be quoted on the basis of free delivery of Lab. Equipment at the Department of Agriculture Engineering, B.Z. University Campus.
- xviii. Quotation should be submitted in print output/typed condition preferably.
- xix. Conditional bid will not be accepted.

**TREASURER**  
**UAN. 111229988 Ext.1318**