

Issued to Mr. \_\_\_\_\_

Vide D.R. No. \_\_\_\_\_ dated \_\_\_\_\_.

**T E N D E R F O R W O R K S**

I/We hereby tender for the execution, for the Government of Sindh/ Chancellor of Sindh Agriculture University, Tando Jam (hereinbefore and hereinafter referred to as "University of the work specified in the underwritten memorandum within the time specified in such memorandum at \_\_\_\_\_ % above/below Part-I, and at \_\_\_\_\_ %Above/Below Part-II, the estimated rates entered in schedule "B" memorandum showing items of work to be carried out) and in accordance in all respects with the Specifications, designs, drawings and instructions in written referred to in Rule 1 hereof and in clause 13 of the annexed conditions of contract and agree that when materials for the work are provided by the University such materials and rates to be paid for them shall be as provided in schedule, A, hereto.

**M E M O R A N D U M**

1. General Description: Supplying & Commissioning of Agriculture Lab Equipment, SAU, Sub Campus at Umerkot

- |  |         |
|--|---------|
| (a) Estimate cost.   | Rs:     |
| (b) Earnest money.   | Rs: 2%  |
| (c) Security deposit i/c earnest money.  | Rs: 10% |
| (d) Percentage if any to be deducted<br>From bills (Rupees _____) percent.                               | Rs:     |
| (e) Time allowed for the completion of work from date of written order to commence <u>one month(s)</u> . |         |

Should this tender be accepted I/We hereby agree to abide by and fulfill all the terms and provisions of the conditions of contract annexed hereto so far as applicable, and in default there of to forfeit and pay to University the sums of money mentioned in the said conditions.

Receipt No. \_\_\_\_\_ dated \_\_\_\_\_ from the \_\_\_\_\_ Bank at \_\_\_\_\_ in respect of the sum of Rs. \_\_\_\_\_ is herewith forwarded presenting the earnest Money / (a) the full value of which is to be absolutely forfeited to University should I/We not deposit the full amount of security deposit specified in the above memorandum, in accordance with clause 1 (A) of the said conditions, otherwise the said sum of Rs. \_\_\_\_\_ shall be retained by University on account of such security deposit as aforesaid / or (b) the full value of which shall be retained by University on account of the security deposit in clause (B) of the condition.

Dated the \_\_\_\_\_ day of \_\_\_\_\_ 2017

**CONTRACTOR**

The above tender is hereby accepted by me on behalf of the Governor of Sindh/Chancellor, Sindh Agriculture University Tando Jam.

Dated: \_\_\_\_\_.

**FOCAL PERSON  
SUB-CAMPUS UMERKOT  
(PROJECT DIRECTOR)  
SAU TANDOJAM  
TANDO JAM**

**Supplying and commissioning of Agriculture Lab equipment, to be used at  
S.A.U Sub-Campus at Umerkot.**

**SCHEDULE 'B'**

<b>S.No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
01	<p><b>Analytical Balance</b>  <b>Features:</b>                      - Backlit LCD display - Colour coded keys                      - Level indicator with adjustable levelling feet                      - Removable draft shield supplied on 0.001g readabilities                      - Robust metal housing - Sealed keypad                      - Pan lifter to easily remove samples  <b>Technical Specifications:</b>                      Maximum capacity: 420g                      Readability: 0.001g                      Repeatability (S.D.): 0.002g                      Pan size: 120mm Ø  <b>General Specifications:</b>                      Typical stabilization time: 3 Sec                      Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>	04	Each		
02	<p><b>Autoclave</b>                      Top-loading type Sterilizer for Easy Loading of Large Working Volume.                      * Casters equipped for Excellent Mobility.                      * Digital LCD with Back-Light Function.                      * Digital Timer Function – ‘Delay Time’ and ‘Operation Time’ can be Controlled.                      * Solid / Liquid Mode can be chosen by a customer considering a Sample Phase.                      * Complete Safety Pressure Mechanism. * Heat-Protective Lid Cover for User Safety.                      * Water Low Level Detection                      * Automatic Over Pressure Release Valve ensures User Safety.                      * Sterilization Error Indication : Error Alarm and Massage in case of Power Failure and Temperature Error  <b>Technical Specifications:</b>                      Standard Type                      Capacity: 100 Lit.                      Temp. Range &amp; Accuracy: Ambient +5°C to 132°C, ±0.5°C at 121°C                      Pressure &amp; Gauge: 1.2 kgf/cm<sup>2</sup> at 121°C / 2.0 kgf/cm<sup>2</sup> at 132°C, 0 ~ 3 kgf/cm<sup>2</sup>                      Sterilization mode: Solid- or Liquid-mode                      Heating Power/Consumption: 2kW x 2                      Timer &amp; Alarm: 60 min, Error status &amp; Timer-end                      Display: Digital LCD with Back-Light Function                      Controller: Digital Fuzzy-Control System (Fully Automatic)                      Door &amp; Closing System: Lever-type Sliding Door / Safety Electronic Door Closing System                      Safety Circuit: Over-Temp./-Pressure/-Current protection, Sensor Error Detection                      Material: Stainless steel (#304)-Pressure Vessel, Powder Coated</p>	02	Each		

	<p>steel-External Basket: 2ea of Stainless steel Wire Baskets are Included Basket Dimension (mm): Ø420 x h240 Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>				
03	<p><b>Block digester</b> The Kjeldahl method KjelDigester reduces the block digestion process by up to two hours and meets the highest safety requirements. The high degree of automation is the perfect match to the KjelMaster System allowing for unprecedented sample throughput. The Kjeldahl method KjelDigester reduces the block digestion process by up to two hours and meets the highest safety requirements. The high degree of automation is the perfect match to the KjelMaster System allowing for unprecedented sample throughput. Benefits Highly efficient Acceleration of the heating and cooling step, saving up to two hours Direct transfer of the 20 position rack to the KjelSampler Unattended operation by using automatic lift and delayed start time. Programmable time / temperature profiles and full Scrubber. Safe and convenient Improved sealing for effective transfer of harmful fumes No user contact with hot samples due to automatic lift. Convenient magnetic suction module fixation Extended lifetime of block and accessories with protective drip tray. Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>	01	Each		
04	<p><b>Compound Microscope</b> Binocular upright research Microscope with infinity optical system. Should be able to perform bright field, dark field and phase contrast applications. LED illumination high intensity, uniform universal condenser. Nosepiece- Quintuple or above to accommodate 5 or more objectives at a time. Eyepieces- 10x with Field of view greater than 22mm with diopter adjustments. Objective pair Achromat 5x, 10x, 20x, 40x and 100x (Oil immersion) Objective 10X, 20x, 40x and 100x with phase contrast. Stage holder with specimen holder with refocusing stage mechanism with essential accessories. Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>	10	Each		
05	<p><b>Dehydration chamber for fruits and vegetables</b> Vertical-Loading 80 Liter Laboratory Autoclave, 240 Vac, 80 L Capacity Time-saving features improve efficiency in your lab Stores customized sterilization programs for repeated use Cooling fan minimizes cooling time Operation and display panel located on top of sterilizer for easy viewing</p> <p><b>Specifications &amp; Description</b> Chamber Capacity (cu ft) 2.8 Chamber Capacity (Liters) 80 Chamber Height (in) 29.5</p>	01	Each		

5	<p>Chamber Diameter (in)14.5  Chamber Height (cm)75  Chamber Diameter (cm)37  Min Temperature (° F)113  Max Temperature (° F)275  Min Temperature (° C)45  Max Temperature (° C)135  Reservoir Capacity (Liters)6.5  Max Pressure (PSI)36.98  Width (in)20 1/2  Height (in)34 1/2  Depth (in)45 3/4  Width (cm)52  Height (cm)116  Depth (cm)66  Timer Yes  Timer Range0 to 99 hours, 59 minutes  Chamber construction304 Stainless Steel  Power (VAC)240  Power (Hz)50/60  Power (amps)12.5  Description Vertical-Loading 80 Liter Laboratory Autoclave, 240 Vac, 80 L Capacity.  Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>				
06	<p><b>Deionized water Unit</b>  4 L/Hr, Color change indicator wall mountable, maximum water temperature 40C  Including operation &amp; Instruction Manual &amp; CD/ Video program on related subject.</p>	01	Each		
07	<p><b>Digital Camera</b>  DSLR 20 megapixel, Macro lenses 105mm</p>	02	Each		
08	<p><b>Digital Colony Counter</b>  Features :  Four digital displays4 digit display offers convenience of showing the present and previous three count values. Multi-counting average Galaxy 330 can make average count from multiple counting.  Exclusive BACK button  The BACK button allows the convenience of deducting data when over counting.  Suitable for Petri-dishes in various diameters  Galaxy 330's adjustable dish holder can accept most Petri-dishes in a wide range of diameters from 90 to 150 mm or 60 mm.  Pressure sensor design  Pressure sensor design can allow user to operate with any marking pens. No worry about sample spoiled or contaminated.  Safety compliance :  CE certification  Applications :  Total bacteria counting  Total coliform counting  <b>Specification :</b>  Display : 3-digit (0-999) LED display,  4 panels</p>	02	Each		

