

WOMEN UNIVERSITY SWABI
GulooDehri, Topi Road, Swabi.
Telephone No.(0938) 221138, 224222



Tender Document

Date of Opening: 29-03-2016

Venue: Women University Swabi ,Guloo Dehri, Topi Road, Swabi

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TENDER NOTICE

Sealed tenders are invited under Single-Stage – Two-Envelope Method as per KPPRA Rules 2012 from tax registered Firms/ Companies/ Contractors/ Suppliers for procurement of the following goods/equipment/electrical appliances/ furniture and allied services:

S.No.	Goods/equipment (Details provided in Tender Documents)	Cost of Tender Documents (Non-Refundable)	Tender Opening Date
Category-A			
1.	Lab Gear/Chemicals	Rs. 2000/- Tender Form	29-03-2016
2.	IT Equipments	Rs. 2000/-	29-03-2016
3.	Tyres	Rs. 1000/-	29-03-2016
4.	Furniture Items	Rs. 2000/-	29-03-2016
5.	English Language Lab	Rs. 2000/-	29-03-2016
6.	Art and Design Items	Rs. 2000/-	29-03-2016
7.	Office IT equipment	Rs. 2000/-	29-03-2016
8.	Security Guards Uniform	Rs. 2000/-	29-03-2016

TERMS AND CONDITIONS

- Tenders must be submitted on the prescribed form separately for each of the above mentioned categories.
- Complete tender documents can be purchased through Pay Order/ Bank Draft made in the name of Project Director Women University Swabi.
- Complete Tender Documents are available from Women University Swabi during office hours from the date of publication of this notice. Last date of purchase of Tender Documents is 28th March,2016 during office hours.
- Sealed tenders shall be received till **29 March at 10.00 am**. The Technical Proposals shall be opened on the same dates respectively at 11.00 am in presence of authorized representatives of the firms/ companies who may wish to attend. The date and time for opening of Financial Proposals will be communicated to the bidders at the time of opening of the Technical Proposals.
- All the bidders are required to deposit 2% Earnest Money of the bid value through Pay Order/ Bank Draft in the name of Project Director Women University, Swabi.
- The Competent Authority reserves the right to accept or reject any or all the tenders/any offer as per KPPRA Rules, 2012.
- Further inquiries can be made on Phone numbers shown at the top of the notice inviting tender.

Deputy Director
Women University Swabi
0938-224222, 221138

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Terms and Conditions of the Contract

General:

1. The tenderers should examine carefully the general and special terms and conditions of contract and the specifications supplied herewith. He/she should visit and inspect the site at his own responsibility and at his own expense and obtain all the information, which may be necessary for the purpose of making a tender.
2. The tender documents duly completed and each page signed by the Contractor shall be received and opened by procurement committee constituted for the purpose Women University Swabi.

The Supplier/Contractor who,

- (i) Withdraws or modifies his Tender
 - (ii) Does not actually start the supply/work within 1 week of the issue of orders to commence the work, shall loose his Earnest Money and the same shall be forfeited in favor of the University.
3. All supplies shall be carried out completely in accordance with the laid down Standard Specifications in the B.O.Q. In case of any ambiguities' or discrepancies, the decision of the Committee shall be final and binding upon the parties.
4. 10% (Ten percent) of the entire amount payable to the Contractor shall be deducted from his bill and retained by the University by way of Security Deposit. The same will be refunded after lapse of warranty period for each item. In case of failure to rectify the defects pointed out by the committee, the University will have full authority to replace/rectify the same at the entire risk and cost of the contractor.
5. The University shall have the power to order at any time the removing/replacement of any or all the supply which is / are not in accordance with the Contract and to have them substituted, at the Contractors own expenses with proper and approved items and methods, within a reasonable period as decided by the Project Director. In case of default by the Contractor to carry out such orders, the University shall have the power to have such supplies removed/replaced and re-executed through other arrangements at the sole risk, cost and responsibility of the Contractor. The same will be binding upon the contractor and will have no liability on the University.

6. The work shall be completed within the prescribed period and time shall be considered as the essence of the Contract. In case of default on part of the Contractor to complete and deliver the work within the prescribed period, he shall pay to the University Liquidated Damages for delay at the rate of **one fifth percent of Agreement** sum per day of delay in completion up to a maximum of ten percent of the Agreement sum. However, an extra or additional amount of supply ordered upon the contractor or other circumstances of any kind whatsoever may arise such as to fairly entitle the Contractor to an extension in the completion time, then the Project Director shall determine and allow such period of extension which shall be final and binding upon the Contractor provided that any such claim to extension is properly lodged by the Contractor with the Project Director within 2 (Two) days of such work have been ordered or the circumstances have arisen.
7. The University shall have the power to order variation in the form, quality or quantity of the supply or any part thereof and shall have the power to order the Contractor to do so and the Contractor shall comply with such orders including the following: -
 - a. Increase or decrease in the quantity or scope of any item included in the Contract
 - b. Omit any such work
 - c. Execute the additional supply necessary for the completion of the Project. The same will be paid as per Contract quoted rates/market rate estimated after rate analysis.
8. The University reserves its right to accept or reject any or all the tenders without assigning any reason thereof and is not bound to accept the lowest tender either. No claim, as such would be entertained on this account in any court of law.
9. All tests deemed necessary by the Project Director for checking the quality of various items shall be carried out by the contractor and the cost thereof will be borne by the contractor. No claims whatsoever shall be entertained for payment. The defective items should be removed/ replaced by the contractors at own expenses.
10. The rates should be quoted in Pakistani rupees and shall be inclusive of all taxes, duties, LC opening charges and all other allied requirement charges, or hidden charges. No claim whatever will be entertained for payment in this regard and will be binding upon the contractor.
11. The tender should be valid for a minimum period of 03 months from the date of tender opening.

SPECIAL:

1. Inspection of Equipment/Materials.

All items shall be subject to inspection and shall be approved by the Project Director or his authorized representative. The Project Director may reject such equipment/materials as are considered by him to be below standard specifications, size or quality. The Contractor shall provide all labor at his own expense for handling during inspection. Any item rejected by the Project Director shall not be used and shall be removed and replaced with the item of approved quality.

2. Responsibility against damages

Before and up to the whole of the supply is completed and have been finally handed over to the University and a proper completion certificate thereof obtained by the Contractor, the Contractor shall be responsible for all and any damage caused to the materials or installed items, thorough accident, improper handling, transport or any other cause whatsoever and shall repair, remove or replace the same on the first notice Project Director within the specified period of time, failing which the same will be replaced with the approved quality at the sole risk & cost of the contractor.

3. Specifications

The work shall comply with the requirement / specification laid down in the B.O.Q of the tender, where ever the specification is silent it should be considered as of supreme quality up to the requirement.

The supplier shall be bound to test and commission all the supplied items.

4. Laboratory Test.

The Project' Director has the power to order for conducting equipment/material quality assurance test which he deems necessary and the cost of such tests shall be borne by the contractor. No claim in this regard shall be entertained for payment.

5. Technical & Financial Bid

The bid should comprise a single package containing two separate envelopes. Each envelope should contain separately *the technical proposal and financial proposal*. The envelope shall be marked as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" in bold letters. Initially, the technical proposal will be opened whereas the financial proposal will be kept in the custody of the University without being opened. The committee will evaluate the technical proposals. The technical proposal not conforming to the requirements of the University will be rejected. The financial proposals of the bid found technically non-responsive will be returned un-opened to the respective bidders. Financial proposals of the technically responsive bids will be opened publicly at the time, date and venue, which will be communicated well in time to the respective bidders.

The above stated evaluations criteria will be binding upon the bidders. Technical bid should clearly illustrate the detailed technical specifications / catalogue with model number, country of origin of each and every item.

The contractor will be bound to train the supporting staff of the Women University Swabi at Swabi about the operation and functions of the supply. No claim whatsoever will be entertained for payment in this regard.

Evaluation Criteria

Tenders shall be evaluated on quality-cum-price basis and as per actual requirement of the university.

Part C

Delivery Schedule

Delivery Schedule:

The delivery of items will be completed to Women University Swabi, Swabi within _____ days after the date of issuance of Purchase Order.

Delay in Delivery:

In case of the late delivery of items beyond the periods specified in the schedule of requirement, ____ % of the total amount of the Purchase Order will be charged as penalty per day, up to a maximum of ____ % of the total amount of Purchase Order.

Payment:

The payment will be made to the Supplier on receipt of original invoice(s) including those of GST.

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Chemistry Lab Gear

Instruments

B.O.Q (Specifications)

S.No	DESCRIPTION	SPECIFICATIONS	Unit/ QTY	RATE (Rs.)	GST	Amount (Rs.)
1	Conductometer	Conductivity range = 0.01 μ S to 1.999S	01			
2	Spectrofluorophotometer	Light source= 150W Xenon lamp. Wavelength scale= 220- 900nm.Light source compensation= Dynode feedback system with monochromatic light monitoring.	01			
3	Potentiostat (Complete unit with software, electrodes, three electrodes electrochemical cell kit and electrodes polishing kit with alumina powder down to size 0.3 μ and Four probe or two probe conductivity setup Capable to measure conductivity of solid samples)	Should measure 1) Cyclic Voltammetry (Scan rate= $1 \times 10^{-3} \sim$ 10 V/sec) 2) Linear sweep voltmmatry (Scan rate= $1 \times 10^{-3} \sim$ 10 V/sec) 3) Current vs time I-t curves (sampling time= $1 \times$ $10^{-4} \sim 10$ sec) 4) Open circuit potential vs time (sampling time= $1 \times$ $10^{-4} \sim 10$ sec) Electrodes: 1) Saturated calomel reference electrodes, 2) Glassy carbon electrode (GCE, 6mm/3mm) 3) Carbon paste electrode (CPE, 6mm/3mm) 4) Gold gauze electrode (GGE, 100 mesh-25 \times 35 mm)	01			

		5) Gold disc working electrode, Gold sheet working electrodes 6) Indium doped Tin oxide coated glass strips (specific surface resistance of 10-20 Ω cm ⁻²)				
4	Polarimeter	P1000-LED Manual Lab Polarimeter, Measuring range= 2 semi-circles (0-180°, Glass tubes= 100 and 200 mm, scale division= 1°, Light= LED	01			
5	Sonicator	Capacity= 400 mL water, s	01			
6.	Flame photometer	Limit of Detection: <20 ppb Na and K Time to Stability: Aspirate for 20 secs.	01			
7	Galvanostat/Zero Resistance Ammeter with software and accessories	Should measure: Electrochemical Impedance Spectroscopy, Batteries, Fuel Cells, Supercapacitors, corrosion measurements, Films and Coatings, and physical electrochemistry (includes linear sweep and cyclic voltammetry, chronamperometry, chronocoulometry, chronopotentiometry, differential pulse, and square wave voltammetry)	01			
8	UV-VIS Spectrophotometer	Wavelength range 190-1100nm, Tungsten/halogen lamps	01			
9	Bomb calorimeter	Analysis time of calorimeter: <9 min Temperature Resolution: 0.0001K Heat Capacity	01			

		Precision: $\leq 0.1\%$ Accuracy: Test results within range of standard sample				
10	Static Light Scattering	Molecular weight up to 800,000 Da	01			
11	Voltammetry cell	With three electrode setup	02			
12	Working electrode	Gold sheet, gold disc, platinum disc	01 each			
13	Counter electrode	Gold wire, platinum wire	01 each			
14	Reference electrodes	Ag/AgCl electrode, Calomal electrode	01 each			
15	Gallenkamp	Melting point apparatus	2			
16	Fourier Transform Infra Red spectrophotometer		1			
17	Rotary Vacuum Evaporator		1			
18	Magnetic Stirrer Hot plate		6			
19	Soxhlet Apparatus		1			
20	Heating mantle (250 mL, 500 mL)		2			
21	Magnetic Stirrer-Multistirrer 15	Stirring positions 15	2			
22	Nitrogen Cylinder		1			
23	Rotary vacuum evaporator		1			
24	Magnetic beads (1/2 inch)		24			
25	Magnetic beads (one Inch)	0.5 inch, 1 inch, 1.5 inch	12 each			
26	Viscometer		12			
27	Refractometer	Should measure refractive index of solutions	01			
28	Magnetic stirrer		01			
29	Reference electrode	Saturated Calomel electrode OR Standard Hydrogen electrode	01			
30	Water distillation plant or deionized water system		01			
31	Bench top pH meter	Hanna	01			
32	Micro lab 300 Merck with kits	Micro lab 300 Merck	01			
33	Lactometer		01			

34	Suction pump plastic		6			
35	Double walled funnel		6			
Chemicals						
B.O.Q (Specifications)						
1	Potassium iodide	100g				
2	Potassium iodate	100g				
3	Sodium carbonate	500g				
4	Potassium hydrogen phthalate (KHP)	500g				
5	Sodium oxalate	100g				
6	Sodium thiosulfate	500g				
7	Zinc chloride	500g				
8	Zinc nitrate	500g				
9	Ammonium nitrate	500g				
10	Silver nitrate	500g				
11	Hydrazine sulphate	200g				
12	8-hydroxyquinoline (oxime)	2.5L				
13	Cellulose powder	100g				
14	Urea	100g				
15	Nickel chloride	500g				
16	Lead acetate	500g				
17	Lead nitrate	500g				
18	Ammonia solution	2.5l				
19	Nessler's reagent (potassium teraiodomercurate)	2.5L				
20	Ammonium molybdate	2.5L				
21	Sodium monophosphate	500g				
22	Sulphanilic acid	500g				
23	Aniline	2.5 L				
24	Sodium nitrite	500g				
25	Sodium nitrate	500g				
26	Copper metal	50g				
27	Ferric ammonium sulphate	500g				

28	Mercury thiocyanate	200g				
29	Manganese chloride	500g				
30	1,5-diphenyl carbazide	100g				
31	Sodium diethyldithiocarbamate	100g				
32	Acetone	10 L				
33	Potassium periodate	500g				
34	Riboflavin	200 g				
35	Dodecyl benzenesulfonic acid	250 ml				
36	Ammonium persulfate	250 g				
37	Chloroform	6 L				
38	Sulfuric acid	5 L				
39	Ninhydrin	250 g				
40	Alanine	250 g				
41	Lysine	250 g				
42	Cysteine	500 g				
43	Ink (Red, Blue, Black)	100 ml each				
44	TLC plates	One Pack				
45	Glass slides	48				
46	Plaster of Paris	1 Kg				
47	Sodium Cyanide	250 g				
48	Ethanol	5 L				
49	Methanol	5 L				
50	Tetrahydrofuran	2 L				
51	Dimethyl sulfoxide	2 L				
52	Dimethyl formamide	2 L				
53	Silica Gel (Column)	1 kg				
54	n-Hexane	2 L				
55	Ethyl acetate	3 L				
56	Silver nitrate	5 g				
57	Benzoin	50 g				
58	Benzil	50 g				

59	Benzilic acid	50 g				
60	Benzaldehyde	1 L				
61	Phenol	250 g				
62	CaCO ₃	1 kg				
63	ammonium lauryl sulfate	2.5 L				
64	Sucrose	250 g				
65	Toluene	2 L				
66	2-propanol	2 L				
67	Benzoyl peroxide	250 g				
68	Hydrazine	1L				
69	Sodium borohydride	250 g				
70	CTAB	500 g				
71	HauCl ₄ trihydrate	1 g				
72	Ascorbic acid	250				
73	Trimethylamine	1 L				
74	Thioglycolic acid	1 L				
75	China tile	6				
78	2,4 dihydroxy benzoic acid	250 g				
79	tungsten oxide	100g				
80	Titanium oxide	100g				
81	Hydrochloric acid	5 L				
82	o-toluidine	2L				
83	Hydrochloric acid	2 L				
84	Sodium Hydroxide	500 g				
85	Potassium permanganate	500 g				
86	Sodium Chloride	500 g				
87	Sodium Sulphate	500 g				
88	Indicators Phenolphthalein, methyl orange, methyl red etc					
89	Catechol	1 L				
90	Resorcinol	250 g				

91	Hydroquinone	250 g				
92	o-hydroxybenzaldehyde	250 g				
93	p-hydroxybenzaldehyde	250 g				
94	Nitric Acid	2.5 L				
95	Sulfuric acid	2.5 L				
96	Hydrochloric acid	2.5 L				
97	Formic acid	2.5 L				
9	Methanol	2.5 L				
99	Toluene	2.5 L				
100	Ammonia	2.5 L				
101	Acetone	2.5 L				
102	Mercuric acetate	250 g				
103	Zinc acetate	250 g				
104	Naphthalene	250 g				
105	Magnesium Ribbon	25 g				
106	Benzoic acid	250 g				
107	o-cresol	1 L				
108	m-cresol	1 L				
109	p-cresol	1 L				
110	Anisole	1 L				
111	o-Hydroxybenzaldehyde	250 g				
112	m-Hydroxybenzaldehyde	250 g				
113	p-Hydroxybenzaldehyde	250 g				
114	Acetyl chloride	1 L				
115	Aluminum chloride	250 g				
116	Phthalic anhydride	250 g				
117	Maleic anhydride	250 g				
118	Trichloro triazine	250 g				
119	EDAC	250 g				

120	Thionyl chloride	1 L				
121	Phosphorus pentachloride	250 g				
122	Phosphorus pentaoxide	250 g				
123	Pyridine	1 L				
124	Acetic anhydride	1 L				
125	Nitrous acid	2.5 L				
126	Formaldehyde	2.5 L				
127	1,4-Dioxane	2.5 L				
128	Acetophenone	2.5 L				
129	Hydroxylamine	2.5 L				
130	Acetaldehyde	2.5 L				
131	Phenyl hydrazine	2.5 L				
132	Thiourea	250 g				
133	Sodium bisulphate	250 g				
134	Zinc metal	25 g				
135	Isopropanol	2.5 L				
136	Propanal	2.5 L				
137	Bromine	2.5 L				
138	Ammonium hydroxide	2.5 L				
139	Peracetic acid	2.5 L				
140	Triphenylphosphine	250 g				
141	Ethylbromide	250 g				
142	Formic acid	2.5 L				
143	Stearic acid	2.5 L				
144	Butanoic acid	2.5 L				
145	Benzoic anhydride	250 g				
146	Acetic anhydride	1 L				
147	Succinic acid	250 g				
148	Potassium hydrogen phthalate	250 g				
149	Adipic acid	250 g				
150	Anthranilic acid	1 L				

151	Diazomethane	250 g				
152	Methylformate	1 L				
153	Trimethylamine	2.5 L				
154	Benzenesulfonyl chloride	1 L				
155	Pyrole	1 L				
156	Succinamide	250 g				
157	Glutamic acid	250 g				

Apparatus

B.O.Q (Specifications)

1	Pipet	1 mL, 10 mL	5 each			
2	Motor and Pistil	Medium size	2			
3	Spatula	Both broad and narrow	5 each			
4	Volumetric flasks	50 mL	24			
		100 mL	24			
		25 mL	each			
5	Cork borer	Small, medium and large to bore in cork	2			
6	pH papers	Boxes	5			
7	Round bottom flasks	100 mL	5 each			
		250 mL				
8	Separating funnel	500 mL	4			
9	conical funnel	Medium size	4			
10	petri dishes	Medium size	5			
11	Filter papers	Whatman	5 packs			
12	Round bottom flask	25 mL (19/26)	6			
13	Round bottom flask	50 mL (19/26)	6			
14	Two neck Round bottom flask	50 mL (19/26)	3			
15	Round bottom flask	100 mL (19/26)	6			
16	Two neck Round bottom flask	100 mL (19/26)	3			
17	Three neck Round bottom flask	100 mL (19/26)	3			
18	Round bottom flask	250 mL (19/26)	6			
19	Three neck Round bottom flask	250 mL (19/26)	3			
20	Two neck Round bottom flask	250 mL (19/26)	3			
21	Round bottom flask	500 mL (19/26)	6			
22	Round bottom flask	1L (19/26)	3			
23	Round bottom flask	5L (19/26)	3			
24	3- Way adapter (19/26)		3			

25	2- Way adapter (19/26)		3			
26	Thermometer adapter (19/26)		3			
27	L-shaped adapter		3			
28	U-shaped adapter		3			
29	Condenser (19/26)		6			
30	Receiving adapter (19/26)		3			
31	Chromatography Tanks	Ascending	2			
32	Chromatography Tanks	Descending	2			
33	Sand bathes		12			
34	Spatula	Small	6			
35	Spatula	Medium	6			
36	Spatula	Large	6			
37	Forcep	Small	6			
38	Forcep	Medium	6			
39	Wash bottles	250 mL	12			
40	Wash bottles	500 mL	12			
41	Pipette filler		12			
42	Micro Pipettes	10-100 μ L				
43	Disposable Tips	50 μ L	200			
44	Disposable Tips	50 μ L	200			
45	Glass vials	20 mL	300			
46	Glass vials	20 mL	100			
47	Eppendorf tubes		300			
48	Goggles		6			
49	Gloves		2 Pac kets			
50	Washing brushes	Small	24			
51	Washing brushes	Medium	24			
52	Washing brushes	Large	24			
53	Masks		2 Pac kets			
54	Reagent Bottles	250 mL	24			
55	Reagent Bottles	100 mL	12			
56	Reagent Bottles	50 mL	12			
57	Syringe	5 mL, 1 mL, 10 mL	48 each			
58	Thermometer	10-350 $^{\circ}$ C	12			
59	aluminum foil		2 packs			
60	Suction flask	250 and 500 mL	6 each			
61	Vacuum pump		01			
62	Funnel and flask for suction		6			
63	Desiccator		01			
64	Grease Teflon tap		05			
65	Scissor		05			
66	Cutter		03			

67	Big glass slide for TLC cutting		01			
68	Column	30 cm	06			
69	Paper tap		6			
70	Distillation assembly	For organic compounds	1			
71	Stands	With clips and holders	5			

Instruments for Botany Lab

B.O.Q (Specifications)

S.No	DESCRIPTION	SPECIFICATIONS	Unit/ QTY	RATE (Rs.)	GST	Amount (Rs.)
Apparatus						
1.	Pipette	10ml	10			
2.	Pipette filler		30			
3.	Conical flask	500ml	10			
4.	Watch glass		25			
5.	Spirit lamps	Medium	25			
6.	Round bottom flask	500ml	10			
7.	Measuring Cylinder	100ml	20			
		250ml	20			
		500ml	20			
		1000ml	20			
8.	Reagent bottles	250ml glass	20			
		500ml glass	20			
		1000ml glass	20			
9.	Micropipettes	10 μ l	20			
		100 μ l	20			
		1000 μ l	20			
10.	Micropipettes	1000 μ l	20			
11.	Test tubes	Medium	100			
12.	Test tube racks	Wood	5			
13.	Thermometers	C, F, K	5 each			
14.	Inoculating Loops	Iron	20			
15.	Pipette Sucker		20			
16.	Cuviets		50			
17.	Heamocytometer	Glass	2			
18.	Iron Stands		10			
19.	Dissecting Boxes	(plant section cutting)	20			
20.	Wooden Boards	(Dissection Board)	10			
21.	Consumable Apparatus					
22.	Eppendorf tube	1.5ml	100			
23.	Micropipette tips	(10 μ l, 100 μ l, 1000 μ l)	100each			
24.	Glass slide		5 pack			
25.	Cover slips	Glass	10pack			
26.	Falcon tubes	(15ml, 50ml)	20 each			
27.	pH Papers	Ph 1- 14	5pack			
28.	Cotton Rolls	Soft and fine	10			
29.	Droppers	Small	10			
30.	Eppendorf Stand	Medium/ plastic	5			
31.	Aluminum Foil	Aluminum	5pack			

32.	Blotting Paper	10cm – 7cm	5pack			
33.	Tissue Papers	Boxes	20 boxes			
34.	Syringes	5ml	100			

Equipments

B.O.Q (Specifications)

35.	Autoclaves (FOR STERILIZATION)	Temperature Range 105 to 135° C, capacity 100 Lit/ automatic	1			
36.	Dryers	Smart dry, brushed stainless steel recess kit ADA	2			
37.	Gel electrophoresis (DNA)	Horizontal unit dimensi 20 x 9.5 x 8.5cm (LxWxH)	1			
38.	Gel Electrophoresis Power supply	digital voltage range 10 300V, in 1 Volt step, current 4–400 mA in 1mA steps 75 Watt max	1			
39.	SDS-Poly acrylamide gel electrophoresis	Good job ICAN	1			
40.	Gel documentation system (to observe gel)	RPI Digital	1			
41.	Micro Centrifuge (Refrigerated up to 14000 rpm)	(Refrigerated up to 14000 rpm)	1			
42.	Water bath	Capacity 7 Lit, Temperature range min. 5 °C to +100 °C)	2			
43.	PCR Machine (Thermocycler)	Capacity 96 x 0.2mL tubes, temperature 4°C to 99.9°C	1			
44.	Laminar air flow/biosafety cabinet	Purer PCR Laminar Flow Cabnet-2 foot	1			
45.	Incubator	Capacity 32 Lit ,Temperature range 10°C above ambient up to +80°C	1			
46.	Microtome	Section thickness range 1.0 to 60µm,	1			
47.	Shaking Incubator	80 0C , 60 HZ, squar shape, Aluminium material, digital	1			
48.	Magnetic Hot Plate Stirrer	350C , Weight 1.41pounds, max speed 1000RPM, temp 110/115	1			
49.	Water Distillation plant	capacity 4-8 Litre per hour	1			
50.	Microwave	1200watts, 15 13/16” (D) X 20 11/16 (w), 25.3 lbs	1			
51.	Grinding Machine	Grinde the Plant materials	1			

52.	Rotary Evaporator	Digital heating bath full set of glass ware, height 69.2cm, length 24cm, w, 38cm	1			
53.	Fridge(-20°C) ultra freezer	Upright, capacity 274 litres / 9.7 cu.ft. minimum temperature -20°C	1			
54.	Hydrometer	Triple scale lab use	2			
55.	pH meter	PH Range -2.0 to 20.0 ±0.005pH, Temperature Range -5 to +105.0°C/	1s			
56.	Stereo zoom microscope	Nikon SMZ-1000 Stereozoom Trinocular Microscope 8-80X	10			
57.	Plant Presser	Plant press 18'' lenth X 12'' width	1			
58.	Freezer	-80 °C	1			
59.	Spectrophotometer	LAMBDA 1050UV/Vis/NIR	2			
60.	Stop watch	Digital	5			
61.	TLC jar	5 to 10 slides/ papers	10			
62.	Hygrometer	Three day high/low & averages for humidity & temperature	4			
63.	Oven	Temperature range 5°C up to +300°C, Capacity 32 Lit	1			

Chemicals

B.O.Q (Specifications)

64.	Agar (Growth Media)	500g/bottle	5bottles			
65.	Yeast Extract	500g/bottle	5bottles			
66.	Trypton	500g/bottle	5bottles			
67.	Sodium Chloride	Kg/bottle	5bottles			
68.	Nutrient Agar	500g	5bottles			
69.	Glycerol	2.5lit/bottle	5bottles			
70.	Crystal violet	100g	5bottles			
71.	Ethanol	99.9% 2.5lit	5bottles			
		95% 2.5lit	5bottles			
72.	Ammonium oxalate	1kg/bottle	2bottles			
73.	Iodine	1kg/bottle	2bottles			
74.	Potassium iodide	1kg/bottle	2bottles			
75.	Acetone	2.5lit/bottle	5bottles			
76.	Safranine	100g/bottle	4bottles			
77.	Oil immulsion	500ml/bottle	2bottles			
78.	Methylene blue	100g/bottle	2bottles			
79.	Malachite green	100g/bottle	2bottles			
80.	Hydrogen peroxide	1 lit/bottle	2bottles			
81.	Potassium nitrate	1kg/bottle	2bottles			
82.	Glacial acetic acid	2.5lit/bottle	2bottles			
83.	Sulphanilic acid	500g/bottle	1bottle			

84.	α -nephthylamine	100g/bottle	1bottle			
85.	Magnesium sulphate	1kg/ bottle	2bottles			
86.	Ammonium dihydrogen phosphate	1kg/bottle	2bottles			
87.	Sodium citrate	1kg/bottle	1bottle			
88.	Bromothymol blue	25g/bottle	5bottles			
89.	Dipotassium hydrogen phosphate	1kg/bottle	2bottles			
90.	Peptone	500g/bottle	5bottles			
91.	Glucose	1kg/bottle	2bottles			
92.	Sucrose	1kg/bottle	2bottles			
93.	Maltose	500g/bottle	1bottle			
94.	α -nephthol	1kg/bottle	1bottle			
95.	Potassium hydroxide	Kg/bottle	2bottles			
96.	Starch	500g/bottle	1bottle			
97.	Lactose	1kg/bottle	1bottle			
98.	Tris-HCL	100g/bottle	2bottles			
99.	Sodium Dodecyl Sulphate	1kg/bottle	1 bottle			
100.	EDTA	1kg/bottle	2bottles			
101.	Lysozyme	5g/bottle	5bottles			
102.	Proteinase K	100mg/bottle	2bottles			
103.	Chloroform	2.5lit/bottle	5bottles			
104.	Phenol					
105.	Sodium acetate	Kg/bottle	5bottles			
106.	Sodium hydroxide	1kg/bottle	5bottles			
107.	Hydrochloric acid	2.5lit/bottle	5bottles			
108.	Sulphuric acid	2.5lit/bottle	5bottles			
109.	Nitric acid	2.5lit/bottle	5bottles			
110.	Bromophenol Blue (Dye)	25g/bottle	5bottles			
111.	Ethidium Bromide	10ml/bottle or 5g/bottle	5bottles			
112.	Folin's Reagent	100ml	5bottles			
113.	Sodium carbonate	1kg/bottle	2bottles			
114.	Potassium tartarate	500g/bottle	2bottles			
115.	Copper sulphate	1kg/bottle	2bottles			
116.	Dithiothreitol (DTT)	5g/bottle	2bottles			
117.	Acrylamide	1kg/bottle	2bottles			
118.	Bis-acrylamaide	250g/bottle	2bottles			
119.	Ammonium persulphate	1kg/bottle	1bottle			
120.	Isopropanol	2.5lit/bottle	2bottles			
121.	Benedict reagent	500ml/bottle	2bottles			
122.	Fehling reagent	Lit/bottle	2bottles			
123.	Antisera A, B and D	Set	2 set			
124.	Sudan 111	25g/bottle	2bottles			
125.	Formaldehyde	2.5lit/bottle	1bottles			
126.	Saline solution	1lit/bottle	5bottles			
127.	Phosphate buffered saline	1 lit/bottle	5bottles			
128.	Zinc dust	1kg/bottle	2bottles			
129.	Methanol	2.5lit/bottle	5bottles			
130.	Xylene	2.5lit/bottle	5bottles			
131.	Paraffin wax	1Kg/ bottle	5bottles			

132.	Formalin	2.5lit/bottle	5bottles			
133.	Heamatoxylin	25g/bottle	5bottles			
134.	Eosin	100g/bottle	5bottles			
135.	Phenolphthalein	100g/bottle	5bottles			
136.	Molish reagent	500ml/bottle	2bottles			
137.	Lead acetate	1kg/bottle	2bottles			
138.	Biuret reagent	Lit/bottle	2bottles			
139.	Ninhydrin	25g/bottle	2bottles			
140.	Copper acetate	500g/bottle	2bottles			
141.	Ether	2.5lit/bottle	2bottles			
142.	Acetic anhydride	1lit/bottle	2bottles			
143.	Boric acid	1kg/bottle	2bottles			
144.	Canada Balsam	500g/bottle	2bottles			
145.	Fructose	Kg/bottle	2bottles			
146.	Clove Oil		3 Bottles			
147.	Peanut Oil		3 Bottles			
148.	Olive Oil		3 Bottles			
149.	Harmones	Indole acetic acid,	3 Bottles			
150.		Giberalllic acid	3 Bottles			
151.	Bacterial pure culture	(Bacillus, E.coli, Pseudomonas fluresence, Rhizobia)	2 samples from each			
152.						

Slides.

B.O.Q (Specifications)

S.No	Slide Name	Specification	Quantity			
1	Rhizopus hyphae	-	05			
2	Conidium	-	05			
3	Adiantum	(Leaf, Stem)	05			
4	Pteris	(Leaf, Stem)	05			
5	Funaria	(Leaf, Stem)	05			
6	Lycopodium	(Leaf, Stem)	05			
7	Polytricum	(Leaf, Stem)	05			
8	Psilotum	(Leaf, Stem)	05			
9	Monocot tissues	(Leaf, Stem and Leaves)	05			
10	Dicot Tissues	(Leaf, Stem and Leaves)	05			
11	Bacillus acidocaldarius	-	05			
12	Streptococcus Pneumonia	-	05			
13	E.coli	-	05			
14	Vibrio chderae	-	05			
15	Xanthomonas citrii	-	05			
16	Agrobacterium	-	05			
17	Dicot and Monocot Section cutting slides	Roots, Stem	05			
18	Slides of Marchantia, Funaria	Capsule	05			
19	Prepared slides of Volvox, Chara, Euglena, Ectocarpus, Vaucheria	Body, Reproductive organs	05			

20	Slides of Psilotum	Plant Body and Leaf	05			
21	Section of Pteris	Leaves	05			
22	Osmunda	Rhizome	05			
23	Botrychum, Ophioglossum, Adiantum, Dryopteris, Pteris, Marselia, Equisetum	Leaves Section	05			
24	Staining kit		03			

Models:

B.O.Q (Specifications)

S.No	Model Name	Quantity			
1	Male and Female Cones Of Pinus, Thuja, Cycas and Taxus	05			
2	Sterio-sections of woods of Pinus, Cedrus, Abies, Juniperous Cupressus and Thuja	05			
3	Agaricus	05			
4	Mucor	05			
5	Morchella	05			
6	Puff Balls	05			
7	Mushrooms	05			
8	Dicot, Monocot root, stem sections models	05			
9	Secondary growth of Dicot Angiosperms model	05			
10	Seasonal activity of Dicot plants	05			

Instruments for Zoology Lab

B.O.Q (Specifications)

S.No	Description	Specifications	Quantity	Price(without tax)	Price (with tax)
1	Incubator	Capacity 32 Lit ,Temperature range 10°C above ambient up to +80°C	1		
2	Centrifuge	capacity of 24 ×glass tubes (5-7 ml), upto Speed of 6000 rpm, temperature 4-80°C	1		
3	Fridge(-20°C) ultra freezer	Upright, capacity 274 litres / 9.7 cu.ft. minimum temperature -20°C	1		
4	Oven	Temperature range 5°C up to +300°C, Capacity 32 Lit	1		
5	Thermal Cycler (PCR)	Capacity 96 x 0.2mL tubes, temperature 4°C to 99.9°C	1		
6	Gel Electrophoresis apparatus	Horizontal unit dimension 20 x 9.5 x 8.5cm (LxWxH)	1		
7	Gel Electrophoresis Power supply	digital voltage range 10 – 300V in 1 Volt step, current 4–400 mA in 1mA steps 75 Watt max	1		
8	Microtome	Section thickness range 1.0 to 60µm,	1		
9	Waterbath	Capacity 7 Lit, Temperature range min. 5 °C to +100 °C)	1		
10	Vortex Mixer	Electronic speed 0 – 3000 rpm, Vibration orbit 4.5 mm	1		
11	Autoclave	Temperature Range 105 to 135° C, capacity 50 Lit	1		
12	Microplate Reader(ELISA reader)	96 well plate reader with Spectral range 400–750 nm	1		
13	PH Meter	PH Range -2.0 to 20.0 ±0.005p Temperature Range –5 to +105	1		
14	Fire extinguisher	8 water and 12 dry chemical	3		
15	Water Distillation System	capacity 4-8 Litre per hour	1		
16	Microscope Ocular and Stage micrometer	10X/15X. 1mm scale in 0.01mm divisions or 0.04" scale in 0.001" divisions	3 (Each)		
17	Hematocrit reader	Model 410E	2		
18	Hematocrit centrifuge	Model 410E	1		
19	Distillation Plant	4/8L capacity (Stuart)	1		
20	-4 centrifuge	Mircoscintific	1		

21	Deep Freezer	-80°C	1		
22	Spectrophotometer	LAMBDA 1050UV/Vis/NIR	1		
S. No	Chemicals	Quantity	Price(Without Tax)	Price (With Tax)	

Chemicals

1.	Acetic acid	1 liter		
2.	Ammonium sulphate	500gm		
3.	Agarose	500gm		
4.	Benedicts solution	500ml		
5.	Barfoed's reagent	500ml		
6.	Barium chloride	500ml		
7.	Bismuth subnitrate	500ml		
8.	Boric Acid	1 kg		
9.	Chloroform	2 liter		
10.	Caustic soda	500gm		
11.	Calcium chloride	500gm		
12.	Copper sulphate	500gm		
13.	Chlorophenol red	500ml		
14.	EDTA	1Kg		
15.	Ether	1 liter		
16.	Ethyl acetate	1 liter		
17.	Esbach's reagent	500ml		
18.	Fehling's solution	500ml		
19.	Fructose	500ml		
20.	Ferric chloride	500ml		
21.	Glucose	500mg		
22.	Ferric chloride	500ml		
23.	Glyoxalic acid reagent	500ml		
24.	Glycerin	500ml		
25.	Hydrochloric acid	1 liter		
26.	Iodine solution	500ml		
27.	Lactose	500ml		
28.	Lead acetate	500ml		
29.	Methylene blue	500ml		
30.	Maltose	500ml		
31.	Mercuric chloride	500ml		
32.	Mercuric sulphate	500ml		
33.	Mercuric nitrate	500ml		
34.	Nylander's reagent	500ml		
35.	Ninhydrin	500ml		
36.	Olive oil	500ml		
37.	Oleic acid	500ml		
38.	Potassium ferricyanide	500mg		
39.	Potassium tartarate	500mg		
40.	Picric acid	500ml		
41.	Phenyl hydrazine hydrochloride	500ml		
42.	Peptone	500ml		
43.	Zinc sulphate	500mg		
44.	Iodine	500ml		
45.	Alcohol	1 liter		
46.	Glacial Acetic acid	500ml		
47.	Chromic acid	500ml		
48.	Trichloroacetic acid	500ml		
49.	Potassium Dichromate	500ml		
50.	Sodium sulphate	500mg		
51.	Osmic acid	500ml		
52.	Formic acid	500ml		
53.	Sodium salicylate	500 ml		
54.	Spirit	1 liter		

55.	Orcein stain	500ml		
56.	Haematoxylin	500ml		
57.	Eosine	500ml		
58.	Lugols iodine	500ml		
59.	Safranine	500ml		
60.	Acid fuchsin	500ml		
61.	Leishman stain	500ml		
62.	Mallorys triple stain	500ml		
63.	Crystal violet stain	100ml		
64.	Giemas stain	100ml		
65.	Methylene blue	100ml		
66.	Cedar wood oil	100ml		
67.	Canada balsam	100ml		
68.	Phenolphthalein	100ml		
69.	Potassium dihydrogen phosphate	100mg		
70.	Potassium hydrogen sulphate	100mg		
71.	Sodium hydrogen sulphate	500 ml		
72.	Sodium chloride	500mg		
73.	Sodium acetate	500mg		
74.	Seliwanoffs reagent	100ml		
75.	Silver nitrate	100ml		
76.	Sulphosalicylic acid	100ml		
77.	Sodium nitrate	100ml		
78.	Sodium hypobromide	100mg		
79.	Sodium hydroxide	500mg		
80.	SUCROSE	500ml		
81.	Sulphuric acid	1 liter		
82.	Tannic acid	100ml		
83.	Thymol	100ml		
84.	TBS(Tris buffer saline)	500mg		
85.	Thymol blue	100ml		
86.	TRIS	1Kg		
87.	Sodium dodecyl sulphate	100mg		
88.	Urea	1Kg		
89.	Bromophenol Blue	100mg		
90.	Comassie brilliant blue	100ml		
91.	Acryl Amide	1kg		
92.	Bis Acrylamide	500mg		
93.	Aluminium Phosphosulphate	100mg		
94.	TEMED	25ml		
95.	PBS (Tablets)	Sigma	5 packs	
96.	Sarcosyle Solution	1Kg		
97.	Sodium metabisulphite	1Kg		
98.	Ammonium acetate	1kg		
99.	Gram staining set		2	

Glass ware:

B.O.Q (Specifications)

S.No	Description	Specification	Unit	Price(Without	Price(with
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			/Quantity	Tax)	Tax)
1	Reagent bottles	100ml	50		
2	Measuring cylinders	10ml, 25ml, 50ml, 100ml, 500ml	5 Each		
3	Specimen bottles	Small	500		
		Medium	500		
		Large	500		
4	Glass Tubes	15 ml	15-20 packs		
5	Glass pipette	10ml	50		
6	Petri dishes	70*15, 90*15	100 each		
7	Conical funnels	All sizes	2 dozen		
8	Glass capillary tubes		5 Packs		

Plastic Ware:

B.O.Q (Specifications)

S.No	Description	Specification	Unit/ Quantity	Price (without tax)	Price (with tax)
1	Falcon tubes	15ml, 50ml, 175ml, 225ml	2 packs each		
2	Centrifuge tube (conical)	15ml, 50ml	3 pack each		
3	Eppendorf	0.5ml, 1.5ml, 2ml	4 packs each		
4	Screw cap tubes	2 ml graduated	4 packs		
5	Freezing vials	20ml	2 packs		
6	Pipette stands	4 pippets stand Thermo Scientific	4		
7	Vacutainer	EDTA containing, 3ml	10 boxes		
8	Iv canola	Sizes 14-24G	20		
9	Centrifuge tube (round bottom)	10ml, 30ml, 75ml	30 each		
10	Micropipette set	0.2µl-1ml	4		
11	Disposable pippets	10ml	10 Packs		
12	Blue pippet tips	1000µl	4 Packs		
13	Yellow pippet tips	200µl	4 Packs		
14	White pippet tips	20µl	4 Packs		
15	Syringes	10ml	10		
16	Butterfly	24G	50		
17	Slides boxes		10		
18	Aluminum foils		10 Packs		
19	Gloves	Medium, Large	10 Packs		
20	Plastic Pestles		1 dozen		

21	Sprinkle bottles		1 dozen		
22	Rubber pippet filler	60 ml	1 dozen		
23	Culture plates	6 and 12 welled	1 dozen		
24	Paint brushes	Simple	6		
25	Eppendorf Stand	Medium/ plastic	15		

Slides and Models:

B.O.Q (Specifications)

<u>S.No</u>	Description	Specification	Unit/ Quantity	Price (without tax)	Price (with tax)
1	Prepared slides of blood cells	Basophils Eosinphils Neutroplih Lymphocytes Red blood cells	4 4 4 4 6		
2	Model eggs of vertebrates	Microlecithial eggs Mesolecithial eggs Megalecithial eggs Islocithial eggs Telolecithal eggs	5 5 5 5 5		
3	Prepared slides of Developmental stages	Amphoixus Mammals Frog Chick	8 8 8 8		
4	Bacterial colonies	Gram Positive Gram Negative	10 10		

Tools for Psychology Lab

B.O.Q (Specifications)

<u>S.No</u>	<u>Name of the Tool/Apparatus</u>	<u>Quantity</u>
01	Stopwatch	05
02	Mirror drawing Apparatus	03
03	Wheatstone	03
04	Tachistoscope	03
05	Human Anatomy 3 dimensional plastic charts	1 each
06	Photographs of eminent Psychologists	1 each
07	Muller Lyer Apparatus	03
08	Zeigarnik Apparatus	02
09	Stroop Effect charts and tool	
10	Digital Memory drum	03
11	Skinner Box	02
12	Apparatus for the mapping of blind spot	02
13	Serial Incrimination weight set	
14	Balance Scale	02
15	Pendulum	05
16	Tuning fork	05
17	Magnifying glass	05
18	Models of Ear, Eye, Brain, Neuron, Heart etc	1 each
19	Litmus Paper	
20	Microscope	01
21	Lie Discrimination box	01
22	Prism	03
23	Porteus Maze	03
24	Extension boards	06

TESTS:

B.O.Q (Specifications)

<u>S.No</u>	<u>Name of test</u>	<u>Quantity</u>
01	Human Figure Design (HFD)	01
02	Thematic Apperception Test (TAT)	01
03	Standard Progressive Matrices (SPM)	01
04	Wechsler Adult Intelligence Scale (WAIS)	01

05	Wechsler Intelligence Scale for children (WISC)	01
06	House,Tree,Person (HTP)	01
07	16 Personality Factor Test (16 PF)	01
08	Ghazali Personality Inventory Test (GPI)	01
09	Minnesota Multiphasic Personality Inventory (MMPI)	01
10	Rorschach Inkblot test (RIT)	01
11	Beck Anxiety Inventory (BAI)	01
12	Cattell Infant Intelligence Scale (WIIS)	01
13	Children's Apperception Test (CAT)	01
14	Word Association Test (WAT)	01
15	Kaufman test of Educational Achievement (KEA)	01
16	Porteus Maze Test	01
17	Beck Scale for Suicidal Ideation (BSSI)	01
18	Beck Youth Inventory (BYI)	01
19	Color Traits Test (CTT)	01
20	Draw-a-Person Test	01
21	Myers Briggs Type Indicator Test (MBTIT)	01
22	Rotter Incomplete Sentence Test (RIST)	01
23	Stroop Color Naming	01
24	Wide Range Achievement Test- 4 th Edition	01
25	HEXACO model of personality structure Personality Inventory	01

I/ We hereby agree to abide by and fulfill all the terms and provisions *of* the contract Hereto annexed or in default thereof to forfeit and pay to the University the sums of money mentioned in the said conditions *of* contract.

Bidder Signature

Tender Opening Committee Signature

WOMEN UNIVERSITY SWABI
GulooDehri, Topi Road, Swabi.
Telephone No.(0938) 221138, 224222

TENDER TITLE: SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF LAB GEAR UNDER THE PROJECT TITLED “Women University Swabi”

FORM OF AGREEMENT

This agreement made this _____ day of _____ between the Women University Swabi (hereinafter referred to as the University) represented by the Project Director, Women University Swabi (hereinafter' referred to as the Project Director) of one part and M/s _____ here in after called the contractor which term shall include his successors, assigned and legal representative of the other part.

Whereas the University has decided to procure various equipment etc. as per the work order from the contractor under title **“Supply, Installation, Testing and Commissioning of _____under the project titled “Women University Swabi”**

Now, therefore, this Agreement witnessed and the parties hereby agree as follows: -

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the conditions of Contract herein referred to
2. The following documents, which for the purpose of identification have been signed which, shall be deemed to as part of this agreement.
 - a) Tender Notice
 - b) General Rules & Instructions for the guidance of Tenderers.
 - c) The Tender (Tender Form)
 - d) Conditions of Contract
 - e) Bill of Quantities
 - f) Special Conditions of Contract
 - g) Evaluation Criteria
3. In consideration of payments to be made to the Contractor in accordance with the Contract, the Contractor, hereby convene with the Project Director to Supply/Installation/Commissioning/Completing, and maintain the works in conformity with the provisions of the contract.
4. The Project Director hereby agree to pay to the Contractor in consideration of the Supply/ Installation/ Commissioning/ Completing, and maintenance of the goods/ works, the contract price in the manner prescribed by signatures

For and on behalf of the

Signature

Contractor

of Accepting Officer
Designation _____

Dated: _____
For and on behalf of
University

Date: _____

Witness No. 1 _____

Witness No. 2 _____