



BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

(Established by Govt. of Punjab vide Punjab Act No 18 of 1998)

University Procurement & Facility Department

SHORT TERM e-TENDER NOTICE FOR PHARMACY EQUIPMENTS

Tender Notification No :	To be generated automatically by the E-procurement portal of the Govt. of Punjab.
Nature of work :	Short term e- tender notice for supply of PHARMACY EQUIPMENTS/ ITEMS for the University College of Pharmaceutical Sciences & Research, Faridkot (a constituent Institution of the Baba Farid University of Health Sciences, Faridkot).
Cost of the tender document:-	Rs. 500/- only (Rs. Five Hundred Only) {Non refundable, under any circumstances}. <u>must be submitted in the shape of a Bank Demand Draft of any nationalized bank and issued in the favour of “ Registrar, Baba Farid University of Health Sciences, Faridkot” payable at “Faridkot” and must be submitted upto 1.30 p.m. of the last date fixed for the submission of the tenders through e-tender mode. The bidder who will not submit the demand draft upto the last date and time fixed for the submission of tender will be considered as In-valid and his/ her bid will be rejected without any prior notice. The demand draft must reach to the office of the Incharge (UPFD) on which the name and address of the bidder must be written on its back side.</u>
Tender Processing fee:-	To be charged by Punjab Govt as per their norms. (Non-refundable).
EMD Amount :	Rs. 100000/- only (Rupees One Lac Only) <i>{Refundable to the Non-successful bidders, without any type of interest or other charges}.</i> <i>However, It will be converted in Performance security in case of successful tenderer and will be returned after successful completion of the contract period.</i> <u>The Earnest Money Deposit must be submitted in the shape of a Bank Demand Draft of any nationalized bank and issued in the favour of “ Registrar, Baba Farid University of Health Sciences, Faridkot” payable at “Faridkot” and must be submitted upto 1.30 p.m. of the last date fixed for the submission of the tenders through e-tender mode. The bidder who will not submit the demand draft upto the last date and time fixed for the submission of tender will be considered as In-valid and his/ her bid will be rejected without any prior notice. The demand draft must reach to the office of the Incharge (UPFD) on which the name and address of the bidder must be written on its back side.</u>
Date of start of downloading of tender documents:-	immediate from the website of the Punjab Government i.e. https://eproc.punjab.gov.in
Website for downloading of the tender document:-	From the above website However, the details may also be obtained from the University



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	website i.e. www.bfuhs.ac.in		
Last date for downloading of the tender document:-	<u>20.03.2018 up to 12.30 pm</u>		
Last date & Time for submission of the tender documents:-	<u>20.03.2018 up to 1.30 pm (through online mode only)</u>		
Date of opening of the Tender documents:-	<u>20.03.2018 (at 2.30 p.m.)</u> on the e- procurement portal of the Govt. of Punjab. at the University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot.		
Address for the submission :	The Registrar, Baba Farid University of Health Sciences, Sadiq Road, Faridkot (Punjab) PIN-151203.		
Who can be contacted for obtaining more information about the tender.	<u>Sr. No.</u>	<u>Nature of Information</u>	<u>Name of the concerned Official with contact No:-</u>
	1	About the tenders and allied information:-	University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot. Phone:- 01639-250267, 256232, 256236, Email id:- upfdbfuhs@gmail.com (on all working days from 9.00 a.m. to 5.00 p.m.)



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SCOPE OF SUPPLY

E-tenders are invited from the **Manufacturers/ Sole**

agents/distributors/ Dealers etc. for supply and properly installation of the Pharmacy Equipments/ items for the **University College of Pharmaceutical Sciences & Research, Faridkot (a constituent Institution of the Baba Farid University of Health Sciences, Faridkot):-**

List of Equipments

S.No	Name of Instrument	Qty.	Specifications
1	Homogenizer	04	A complete set consisting of rotor within stationary stator (fully digitally controlled system with LED display). Each homogenizer should be equipped with different (S25N-18G or S10N-10G or, S25N-25G or S18N-19G) dispersing element and should be suitable for a volume range of 10-2000 ml, could be used without vacuum operation with max. temperature of 180°C, having high circumferential speed at 11.9-22.3 m/s, for obtaining particle size of 1-20 µm) and should already be fitted with all mechanical/fixing accessories (such as boss head clamp or strap clamp, plate stand), suitable for all solvents.
2	Digital Balances	03	Semi-micro analytical balances (equipped with RS-232 interface, GLP compliant, auto power ON function, LCD display, data memory function, internal calibration, other functions like animal weighing, % function, counting ACAL, clock and calendar) with a capacity of weighing up to 220g, resolution of 0.01 mg, repeatability of 0.02 mg, linearity of ±0.03 mg, dimension of weighing pan ~Ø 90 mm, the instrument should be equipped with adjustable response characteristics to cope with effect of drafts or vibrations, antistatic glass breeze with thin evaporated metal coating, should weigh in diverse units (g, mg, oz, ozt, ct, mom, dwt, gr)
3	Digital Balances	03	Compact analytical balances (equipped with RS-232 interface, GLP compliant, auto power off function, super hybrid sensor, other functions like animal weighing, % function, counting ACAL, clock and calendar, reverse backlit LCD, software for internal and external calibration) having capacity of 152 g, resolution of 0.1 mg, repeatability of 0.1 mg and linearity of ±0.2 mg, with high speed weighing with 2 second calibration, removable, shatterproof breeze break



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			and antistatic coating, compact four print: 198mm×294 mm (smaller than A4 sheet of paper), equipped with rotating sliding doors, with density determination function, front mounted spirit level for adjusting the leveling feet (should in units g, mg, oz, ozt, ct, mom, dwt, gr, SG)
4	Stage and Eye piece micrometer	03	Square 1mm/100units for stage micrometer and 10mm/100units on X, Y with 24 dia/ t=1.5 mm for use with 10X, 100X, 250X or 400X magnifying lens
5	Brookfield Viscometer	01	(Viscosity range- 1 cp- 2million cp, with rpm 0.3 to 100 and number of increments-18), PC Interface for use with optional Wingather Software and output connection to printer, Direct access to time measurement function (time to torque, time to stop), should be fully equipped with spindle kit (such as bob, different type of spindle and other accessories) Temperature off-set capability to $\pm 5^{\circ}\text{C}$, Senses and displays continuously: Viscosity (cP or mPas) Temperature ($^{\circ}\text{C}$ or $^{\circ}\text{F}$) (OPTIONAL), % Torque, Speed (rpm), Spindle used, Torque measurement accuracy: 1% of full scale range, Repeatability: 0.2% of full scale range, Select all functions from user-friendly keypad, Choice of 18 rotational speeds, Optional RTD temperature probe, Auto-zero function to ensure precision torque measurement, Auto-range function to define full scale range (FSR) for all spindle/speed combinations.
6	Propeller type mechanical agitator	01	With LED type digital display, Speed range (60Hz) of 60 - 5000 rpm, Motor rating input-70 W, Motor rating output-35 W, Viscosity max.-10000 mPas, Output max. at stirring shaft-26 W, Permissible ON time-100 %, Torque max. at stirring shaft 150 Ncm, Chuck range min. diameter of 0.5 mm, Chuck range max. diameter of 10 mm, Hollow shaft, inner diameter of 10.5 mm, Extension arm diameter of 13 mm, Extension arm length of 160 mm, Dimensions (W x H x D)-88 x 294 x 212 mm, Weight-3.1 kg, Permissible ambient temperature of 5 - 40 $^{\circ}\text{C}$, Permissible relative humidity of 80 %
7	Steam distillation still	01	A double stage steam distillation apparatus (double distilled) made up of quartz boiler and coring condenser, should have a double stage output capacity of 5L, should be equipped with the heater safety system from burning out.
8	Standard Sieves	09	Should be made up of perforated steel plate with square holes in 8" diameter brass frame (without pan/lid), b.s.s no. (22, 25, 30, 44, 52, 60, 72, 85 and 100)
9	Capsule filling	01	Contact parts stainless steel construction & use of non



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	machine		corrosive approved materials. Simple design and robust construction to long life and trouble free operation, All the loading plates are made of S.S 304 quality, Output 6000+ capsules/hour for capsules of '00' to '5'
10	Ampoule washing machine	01	A lab scale semi-automatic multijet ampoule washing machine having digitally controlled system with production rate of 100 ampoules /minute, for a ampoule diameter between 10 mm to 20 mm, should be able to operate at power of 1HP, 440 Volt, 3 Phase, 4 Wire System, 50 Hz
11	Disintegration apparatus	01	<ul style="list-style-type: none"> • Advance Microcontroller based with user friendly software in dialog mode. • Alpha numeric splash proof keyboard allow entries like sample name, sample no./ID no. for data identification • Select report print out complies to GLP requirements • Built- In real time clock for date, time display & authenticity of print out. • Error indication to trace out the problem. • Meets specifications of USP, BP, I.P. etc. • Programmable temp. & time. • Moulded, clear, acrylic water bath with illumination for better visibility. • Baskets are automatically lifted at the end of the test. • Capability of dual buffer disintegration test. • Audible, low water level alarm with indication on display for safety. • Individual temperature sensor available for individual beakers. • PC compatibility for data downloading.
12	Collapsible tube crimping machine	01	<p>Suitable for crimping and coding Aluminum and collapsible tubes.</p> <p>hand operated model</p> <p>Accessories: SS made metallic fonts</p> <p>Portable compact model.</p> <p>Easy to use, no maintenance required.</p> <p>Speed: Up to 30 tubes per min.</p> <p>Crimping size: as required.</p>
13	Magnetic Stirrer	05	Magnetic stirrer (of weight ~ 3Kg) with heating of max. stirring quantity (H ₂ O) ~ 5 L, having 15/1.5 W of motor (input/output) with speed range of 100-1500 rpm, heat output ~250W, temperature range of 50-500°C, LCD display



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			for different targeted and actual temperature, having max. stirring bar length of 30 mm, adjustable safety circuit (550°C fixed), control accuracy with sensor $\pm 0.5K$, with ceramic as set-up plate material of dimensions up to 150 mm, (fully equipped with hot top indicator to prevent burns, elevated control panel for protection against spilled liquids, integrated temperature sensor of precise temperature control)
14	All-purpose equipment with all accessories	01	The equipment consisting of a main vertical drive (motor) should be able to operate at 1 HP, 230 v, 50 Hz, single phase A.C. The motor should be connected to sturdy worm reduction gear box, speed ~ 0 to 400 rpm. The equipment should include all the accessories (V-blender- having capacity of 4.5 kg, dimensions 17" x 8" x 12" inch; dry granulator- having working capacity of 15 kg/hr, dimensions of 8" x 10" x 13" inch; coating pan- having a gross capacity of 9.5 L, dimensions of 12" x 12" x 10" inch; pelletizer- having dimensions of 17" x 17" x 7" inch and gross weight of 15 kg; planetary mixer- having a gross capacity of 5L, working capacity 3 to 3.5 L and dimension of 14" x 10.5" x 16.5" inch).
15	Energy meter	02	Single phase electronic energy meter with LCD display, should have average service life of 20 years with basic current (maximum current) up to 20A (80) Rating current of transformer in 5A direct connection, Reference voltage: 220, 230 and 240V, Reference frequency: 50 or 60Hz, Power losses in voltage circuit at 50Hz: 1. 0W/5V. The meter case should be made up of insulating and protective-class II and weatherproof material, the terminal block should be made up of bakelite, max. diameter of terminal hole: 8.5mm, the driving element consists of voltage element and current element, both of which are fixed to frame, Rotor shaft made of aluminum alloy with small hole in upper end for storing lubrication and for fitting brass bearing, Magnet made of AlNiCo5 alloy and designed as U-shaped so that effect of short-time over current upon magnet negligible, Full load error can be fine controlled by adjustment mechanism
16	Precision melting point apparatus	01	A melting point apparatus (silicon oil bath type) equipped with microprocessor controlled (for auto gradient rate of heating control for high precision and accuracy), consisting of magnetic stirrer, glare free background illuminator and



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			cylindrical silicon oil bath (capacity ~200 ml) having three small holes for holding the capillaries, one big hole for thermometer, and another big hole for boiling point tube/ temp sensors for calibration(equipped with LED 4 digit display temp. range: up to 300°C, suitable for melting and boiling point, readability in °C, resolution of 1°C. programmable, visual provision by optical magnifier, automatic ramp rate proceeding, sample capacity of 3, should be suitable for any colored samples), The magnifying view should be programmed with HOLD key, RESET keys for protection from any power failure
17	Distillation Unit	01	A wall mounted distillation still of capacity 10 liters with whole body made up of stainless steel, fully equipped with high energy efficient industrial grade heating elements
18	Ostwald Viscometer	15	U-shaped Glass tube (capillary) based Ostwald's Viscometer having outflow time of 80 to 100s with water at 20°C
19	Stalagmometer	15	A lab scale instrument made up of straight borosilicate glass having size of 2.5mL. Specifically designed for checking the surface tension of liquids by drop count method.
20	Filtration assembly	01	A membrane filtration holding assembly (47 mm) made up of material-PSF conforming with US FDA 21CFR autoclavable material with upper chamber (of capacity 500 ml and lower chamber (of capacity 1000 ml), Removable membrane support plate for providing maximum flow rate and through put.
21	Permeability Cups	05	Permeability cup should be in compliance with ASTM Method D 1653, It should have face opening of the cup ~ 25 cm ² having a volume of 25 ml, weight ~ 140 grams. The cup assembly should be coated with alodine. All parts including cup, clamping ring, and cap should be made up from high grade aluminium and gaskets should be made up from PTFE/neoprene.
22	Anderson's pipette	03	550 ml vessel containing 10 ml pipette sealed into ground glass stopper used for the particle size determination (sedimentation pipette) consisting of 550ml. graduated cylinder, graduation from 0 to 20cm. and fitted with 10ml. pipette with three way stopcock, the tip of pipette at the level of 0 mark at the cylinder.
23	Phase Contrast Microscope	01	Inverted microscope with transmitted light LED illumination, having fixed stage plate with left or right hand drive carrying standard inserts for slide or various culture plates, flasks and Petri-dishes etc .A 4-fold revolving nosepiece with infinity optics, tube lens, phototubes-condenser holder



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			including collector, aperture diaphragm and filter holder. Should be equipped with illuminated ON/OFF switch-interface - power supply including mains cable. Should have trinocular tube with 40-45° viewing angle, condenser with a free working distance of 35-40 mm and a numerical aperture of 0.45 or better for bright field phase contrast studies. Should have slider for phase contrast with 4 positions, 1x Bright field and 3x light rings for condenser., The objectives plan achromatic of 4x/5x, 10x, 20x and 40x with long working distance for brightfield and phase contrast applications. A10X magnification eye pieces with minimum 20 mm field of view.
24	Tissue Culture Station	01	Station should be made up of heavy duty mild steel, square pipe duly powder coated, shelf should be of size 48"×16" and the distance b/w each shelf should be of 16". The platform should be made out of 3mm thick hylem sheet with each shelf fitted with 4 no. of 40 W fluorescent lights (with electronic ballast), castor wheels should be provided for easy movement, Front side should be given for keeping and removing bottles, Photoperiodic timer/controller output and equipped with 3 UV tubes (in each shelf).
25	Diagnostic Kits for infectious diseases	01	Rapid in vitro immunoassay to aid in the rapid differential diagnosis of influenza type A and B viral infections. 15 minute test for Influenza Types A and B with excellent sensitivity and specificity, rapid immunoassay to detect Clostridium difficile toxins A and B in fecal specimens with >90 percent sensitivity and >99 percent specificity
26	Rheometer	01	A system with standard stand in modern, compact design, with a ball bearing immersion model supported electronically commutated synchron motor drive system for rheological measurements, with automatic component recognition system (Toolmaster™), C-LTD80/qc with Pt100 temperature control system with temp. probe (with a temperature range of: -20 to +80 °C), including a water bath thermostat for exact temperature control of measuring cup and the sample consisting of measuring cylinder B-CC27 and measuring cup C-CC27/QC-LTD, equipped with software license for one rheo meter MCR 51, 52 (in compliance with 21 CFR Part 11 function)
27	Viscometer	01	A viscometer (with viscosity range up to 200cp, glass of 0.2 to 2, size~1, stainless steel of 1 to 10, tantalum2 to 20) based on unique ball-release mechanism having wetted parts of glass, PTFE and Viton™ seals (stainless steel and



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			tantalum floats), Should have three range options per tube allow for better accuracy in each range, Absolute reading, no electronics, should be suitable for the small samples below 10 ml, should be used with in constant temperature bath closed system ideal for highly evaporative and hygroscopically deteriorative solutions
28	Sonicator	01	A ultrasonicsonicator with a probe made up of stainless steel 304 with dimensions of 12 mm and 20 mm should be operated at frequency range of 20 KHz \pm 2 KHz. Should be able to work at 120 watt ultrasonic power. Should be fitted with microprocessor based digital temperature indicator cum controller to control the temperature from ambient+5°C to 60°C., should be able to work at 220/230 V AC supply.
29	Respinometer	01	Polished Stainless Steel tank, with capacity of 7 manometers a side, Digital temperature display with resolution of 0.1 deg. C., Temperature control to within +/-0.5°C., Stainless Steel immersion heater., Stirrer for uniform temperature., Manometers mounted on graduated scale for reading pressure changes., Flask with center well & side flask attached to manometer., Oscillation of manometer approximately 90 rpm., Powder coated exterior, with wheels for easy mobility., Capacity 7 manometers, temperature range of 5°C above ambient to 60°C.
30	Autoclave	1	<ol style="list-style-type: none">1. Verticle type, stainless steel double wall construction, lid is made of thick die pressed stainless steel 304 sheet in mirror finish. The unit must be fitted with 8 wing nuts to hold the lid at high pressure.2. Microprocessor bared PID controller with dual display for temp. and time.3. Alternatively displays the inner temperature of the chamber and remaining time of the current cycle.4. Gives alerts after every minute with single sound after the sterilizing cycle starts.5. Give the facility to increase or decrease the sterilizing time as per the requirement of the end user.6. On completion of cycle the display shows"done" with beep sound for 30 seconds.7. Depressuring & Unlocking the unit is manual.8. Operating temperature range between-121⁰-134⁰(prefer).9. Working pressure for sterilization process is (15 psi-17 psi).



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			<p>10. Working capacity is minimum 35 Ltrs.</p> <p>11. Power consumption -2 K.W.</p> <p>12. Low water level protection.</p> <p>13. Vacuum process- w/o Vacuum.</p> <p>14. Gross weight range 130-145 kg.</p>
31	Zone Reader	1	The instrument should be measure the dia of inhibited zone to 0.01mm with the range of 0 to 35mm and work on 230 volts AC/50Hz. Digital indication of antibiotic zone diameter.
32	<p>Round bottom flask</p> <p>Capacity required- 500 ml 1000 ml</p> <p><u>Condensor required</u></p> <p>Allihn type</p> <p>Graham type</p>	<p>10</p> <p>3</p> <p>5</p> <p>3</p> <p>5</p>	<p>Made from High quality heat resistant borosilicate glass.</p> <p>Single neck round bottom flask, hand blown with heavy and uniform wall thickness. Made from high quality heat resistant borosilicate glass.</p> <p>Condensers</p> <p>Drip tip, interchangeable inner joint, interchangeable outer joint, borosilicate made up.</p> <p>Allihn - 280-300 mm X 440-445 mm (Length X height) of Jacket resp.</p> <p>Allihn - 360-400 mm X 500-550 mm (Length X height) of Jacket resp.</p> <p>Graham - 280-300 mm X 440-445 mm (Length X height) of Jacket resp.</p>
33	Suction Pump	6	<p>Portable diaphragm type pumps cum oil free and compressor which are made from special grade aluminum and good strength. Diaphragm is made of 2-ply nylon reinforced neoprene rubber. Valves are made from stainless steel -316 with special sealed bearing. Power supply 230-240v / 50 hz. Vacuum capacity 10-15 Lt / min, working temp range 5-40°C)</p> <p>No lubrication required during or before working.</p> <p>Noiseless performance.</p> <p>Pump available with flame proof motor and chemical resistant parts.</p>
34	Magnetic Stirrer with thermostat	5	The enclosures of stirrer are made of metal painted with powder enamel chemically resistant to acid and alkali. The stirrer are well equipped with a detachable stand for supporting various sensor elements like temperature, pH and thermostat, inside the stirred liquid.



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			<p>Specification of magnetic stirrer -</p> <p>Speed control range=250-1250 rpm</p> <p>Max.stirring volume (water) =5-8 liters</p> <p>Plate temp.regulation range= +25⁰ to +330⁰ c</p> <p>Temperture uniformity on plate= +3⁰ c</p> <p>Working plate heating time till 330⁰C= 15 min</p> <p>Diameter of working plate = 100-130 mm</p> <p>Working surface material= Aluminium alloy</p> <p>Max.stirring liquid viscosity = upto 1170 mpas.</p> <p>Operational voltage=230 v;/50/60 hz</p> <p>Fault indication-output sound signal and turns off the heating/stirring.</p> <p>Display the inner speed of stirring (Lyn) and temp (c⁰) of liquid.</p>
35	Distillation unit	1	<p>1) Single walled, fabricated with heavy gauge high grade stainless sheet.</p> <p>2) Provided along with high quality industrial grade immersion type heaters.</p> <p>3) The distillation still provides continuous supply of pyrogen free distilled water.</p> <p>4) Equipped with brackets for wall mounting connectors, cord and plug.</p> <p>5) Suitable to operate on 230/ 240 volts/ 50 HZ.</p> <p>6) Output capacity of unit minimum 4 Lt/hr.</p>
36	Nessler Cylinder 50 ml 100 ml	10 10	<p>Fabricated with borosilicate glass, class-A with blue ceramic graduation.</p> <p>Fabricated with borosilicate glass, class-A with blue ceramic graduation.</p>
37	Permanent Slides of various tissues	Minimum 100 slides	<p>Clear, permanently stained, good contrast, well labeled glass slides of different tissues of all organ systems.</p> <p>It should be supplied in a shock proof wooden box containing slide racks to hold maximum of 50 slides in each.</p>
38	Models of various organs	14	<p>High Quality Coloured Models with permanent non-fadable labeling.</p> <p>All models should be supplied with strong stainless steel stands.</p> <p>One each of following:</p> <ol style="list-style-type: none"> 1.Male Reproductive System 2. Female Reproductive System 3. Human Kidney 4. Flexible Human Spinal Cord with Femur Heads 5.Human Skin 6. Nose & Pharynx



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			7. Circulatory System 8. Human Nephron 9. Human Tooth 10. Animal cell 11. Human Skeletal System 12. Muscular System 13. Endocrine system 14. Lymphatic/immune system
39	Specimens for various organs and systems	10	All specimens should be stored in good quality, clear, tightly closed leak proof and labeled glass containers with preservatives. Five additional glass containers should also be supplied. One Each of Following: 1. Liver 2. Kidney 3. Heart 4. Brain 5. Lungs 6. Eye 7. Stomach 8. Intestine 9. Gall Bladder 10. Pancreas
40	Different contraceptive devices and models	04 EACH	1. Copper-T: 10 Nos. 2. Condom: 05 packs 3. Pills like Mala-D, Saheli, 4. I-Pill
41	Muscle electrode	01	<ul style="list-style-type: none"> For study of skeletal muscle contractions of single muscle twitch using frog gastrocnemius muscle. Two pin electrodes Stimulator of varying voltage starting from 0.00 V to 10 V with minimum div. of 0.01
42	Computer with LCD	01	Screen: LCD 17" Processor: Intel (R) core (TM) i-3 CPU 2.4 GHz Windows: Windows 10 RAM: 4GB with 1 GB Graphic Card HDD: 1 TB UPS: Extended Power Back-up DVD-ROM
43	Software	05	<ul style="list-style-type: none"> Video, audio and text demonstration of



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	packages for experiment		<p>experimental animals, basic equipments and techniques</p> <ul style="list-style-type: none"> • Different types of bioassays of isolated tissues and effect of different drugs • Behavioural Pharmacology • Effect of drugs on heart • Mydriatic and miotic effect of drugs on rabbit eye • Any other experiment using study on whole or tissue of animals. <p>Note: Two modes of operation i.e. laboratory demonstration and examination mode should be provided</p>
44	Standard graphs of various drugs	01 each	Chart Paper printed material showing sample graphs of effect of some drugs on different tissues/organ/organ system for demonstration of their action like effect of adrenaline, noradrenaline, acetylcholine, histamine, serotonin, dopamine, dobutamine etc.
45	Analgesiometer	01	<p>Tail Flick Type:</p> <p>Radiant Heat type incorporates Digital PID Temperature controller Digital current or Ampere controller, special variable safety devise to automatically cut heating off at present 10 to 60 secs. Interval to prevent tissue damage. Quick heating for rapid repition of experiment. With photoelectric tail flick sensor and digital timer. Flick tail cut heat off and hold displayed time till reset. Supply with rat holder.</p> <p>Provide with Nichrome wire as element to work on 220 V. Provide two additional set of nichrome wires.</p>
46	HPLC	01	<p><u>Quaternary Gradient Integrated High Performance Liquid Chromatography System consisting of the following :</u></p> <p>1. Solvent Delivery System for Quaternary gradient</p> <ul style="list-style-type: none"> • The flow rate should be settable between 0.001 to 5 ml/min. • Flow rate accuracy should be within $\pm 1\%$ or + 2ul whichever is larger. • Flow rate precision should be within $\pm 0.075\%$ RSD. • Maximum Operating Pressure upto 5000 psi. • It should have automatic rinsing mechanism for cleaning of plunger. • It must have a leak sensor as safety feature. • It should have functions for maintenance and validation which are accessible by a dedicated



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			<p>operation button.</p> <p>2. Degassing Unit</p> <ul style="list-style-type: none">• Membrane degassing unit for 5 flow lines(4 X Mobile phase, 1 X Autosampler rinsing)• It must have a leak sensor as safety feature. <p>3. Dual Wavelength UV-VIS Detector</p> <ul style="list-style-type: none">• Wavelength range: 190 nm - 600 nm• Wavelength accuracy: ± 1 nm• Wavelength precision: ± 0.1 nm• Drift: Less than 1×10^{-4} AU/Hour• Noise Level: $\pm 0.25 \times 10^{-5}$ AU• A standard cell [Length 10 mm, volume: 8 ul] should be available.• It should have automatic wavelength accuracy check at 4 wavelengths (UV & VIS) & wavelength correction.• Number of different wavelengths to be monitored & quantitated simultaneously: 2• A leak sensor and lamp replacement protection system. <p>4. Auto-Sample Injector</p> <ul style="list-style-type: none">• Sample injection volume should be variable between 0.1 μl to 100 μl [0.1 μl step].• Number of samples to be processed automatically, random access up to 350.• Flow line rinse capability both before and after sampling should be possible.• Carry over must be within 0.01 %• The injection reproducibility should be less than 0.3% RSD• Injection volume accuracy $\pm 1\%$• Should be capable of accommodating microtiter plates of 96 or 384 wells as well• Temperature setting range of sample cooler should be from 4 - 40°C.• It must have a leak sensor, automatic rack and vial recognition as safety feature. <p>5. Column Oven</p> <ul style="list-style-type: none">• It should be block heating type oven with pre-heating of mobile phase for uniform temperature distribution and with a quick feedback mechanism to maintain constant temperature level even when power source voltage fluctuates.
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			<ul style="list-style-type: none"> The temperature range should be 4°C to 60°C. Temperature control precision should be $\pm 0.1^{\circ}\text{C}$ It should accommodate upto 2 columns of 30 cm length and post column reaction coils. The oven should have temperature limit device and temperature fuse and a solvent leak sensor. <p>6. System Controller</p> <ul style="list-style-type: none"> It should store upto 20 analysis files with a total upto 400 steps of time programs It must have the capability of data buffering to protect collected chromatography data from PC failure . <p>7. Software</p> <ul style="list-style-type: none"> Original, Authenticated software with part no. should be quoted. Compliance to GLP/GMP and US FDA CFR Part 11. Auto start-up, Auto shut-down, baseline stability auto judgement, Auto-validation, Auto purge, etc. must be available from the touch of a button <p>8. Columns:</p> <ul style="list-style-type: none"> C-18, 250mm X 4.6, 5u - (3 No.s) <p>9. Warranty</p> <p>System must carry 1 year Warranty and 2 Years Free AMC on site.</p>
47.	Digital Balance-10 mg sensitivity	6	<p>Specification-capacity 120gm Minimum display-0.01mg Repeatability (standard deviation) -<0.1mg (large range) - <0.02mg (small range) Response time - 3 seconds (large range) 12 seconds (small range) Operating temperature - 5⁰-45⁰c Pan size - 70-90 mm dia approx Bright LED easily readable display. Built in tare facility and calibration facility Provided with kg,lb and oz units Overload protection Provided with A.C adaptor</p>
48.	Digital balance-1mg sensitivity	1	<p>Specification – Max. Capacity - 40g Repeatability (standard deviation) - < 0.1 mg (large range) - <0.02mg (small range) Response time - 3 seconds (large range) 12 seconds (small range) Operating temperature - 5⁰ – 45⁰ C</p>



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			Pan size - 70-90 mm dia approx Bright LED easily readable display. Built in tare and calibration facility. Provided with kg, lb and oz units. Overload protection. Provided with A.C adaptor.
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Note:- The quantity may increase or decrease, based on the actual requirements.



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INSTRUCTIONS/ GUIDELINES TO THE TENDERERS

1. Please download the Tender document from the website of the e-procurement of the Govt. of Punjab. Please sign on all the pages of the tender document along with a stamp/ seal. Then a scanned copy of the same may be uploaded on the website at the time of submission of the tender document..
2. upload an affidavit regarding Non-Black listing as per proforma given at (Annexure-II) on Non- Judicial Papers of appropriate value, duly attested by an Executive Magistrate or a Notary Public may also be uploaded on the website. The original affidavit must be submitted to the Incharge (UPFD) along with the demand draft of the Earnest Money deposit before the last date and time for opening of the tenders.
3. upload Technical Bid Proforma (Annexure-III).
4. upload a signed copy of the terms and conditions (Annexure-IV).
5. Detail of Bank Account for refund of EMD (Annexure – V)
6. In addition to this, following documents are to be attached with Technical Bid:-
 - i) Tender Fee : The tender document fee of Rs. 500/- only may be submitted in the shape of Demand Draft only. It is pertinent to mention here that the Tender document fee once deposited will be Non- refundable under any circumstances.
 - ii) **Earnest Money Deposit (EMD) of Rs. 1,00,000/-** (Rs. One Lac Only). The Earnest Money Deposit must be submitted in the shape of a Bank Demand Draft of any nationalized bank and issued in the favour of “ Registrar, Baba Farid University of Health Sciences, Faridkot” payable at “Faridkot” and must be submitted upto 1.30 p.m. of the last date fixed for the submission of the tenders through e-tender mode. The bidder who will not submit the demand draft upto the last date and time fixed for the submission of tender will be considered as In-valid and his/ her bid will be rejected without any prior notice. The demand draft must reach to the office of the Incharge (UPFD) on which the name and address of the bidder must be written on its back side.



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- iii) Details of registration as Company / Shop / Establishment. The supporting document should be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.
 - iv) Copy of Certificate of Registration for service Tax/TIN/TAN/PAN/VAT (as applicable). The supporting document should be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.
 - v) A copy of the audited balance sheet of the firm/ agency/ manufacturer for the last three financial years as a proof for annual turnover of more than Rs. 2.00 crores in a financial year, must be uploaded on the University website.
7. Attach a signed copy of the Acceptance of Tender/ Conditions Forms (Annexure-VI). The said copy must be signed and duly stamped. A scanned copy of the same may be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.
8. It should be clearly noted that this tender will be accepted though e-tender mode only. The tenders submitted through offline mode will not be accepted under any circumstances.



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Annexure-I

NOTICE INVITING TENDER (E-TENDER NOTICE)

List of Equipments

S.No	Name of Instrument	Qty.	Specifications
1	Homogenizer	04	A complete set consisting of rotor within stationary stator (fully digitally controlled system with LED display). Each homogenizer should be equipped with different (S25N-18G or S10N-10G or, S25N-25G or S18N-19G) dispersing element and should be suitable for a volume range of 10-2000 ml, could be used without vacuum operation with max. temperature of 180°C, having high circumferential speed at 11.9-22.3 m/s, for obtaining particle size of 1-20 µm) and should already be fitted with all mechanical/fixing accessories (such as boss head clamp or strap clamp, plate stand), suitable for all solvents.
2	Digital Balances	03	Semi-micro analytical balances (equipped with RS-232 interface, GLP compliant, auto power ON function, LCD display, data memory function, internal calibration, other functions like animal weighing, % function, counting A/C, clock and calendar) with a capacity of weighing up to 220g, resolution of 0.01 mg, repeatability of 0.02 mg, linearity of ±0.03 mg, dimension of weighing pan ~Ø 90 mm, the instrument should be equipped with adjustable response characteristics to cope with effect of drafts or vibrations, antistatic glass breeze with thin evaporated metal coating, should weigh in diverse units (g, mg, oz, ozt, ct, mom, dwt, gr)
3	Digital Balances	03	Compact analytical balances (equipped with RS-232 interface, GLP compliant, auto power off function, super hybrid sensor, other functions like animal weighing, % function, counting A/C, clock and calendar, reverse backlit LCD, software for internal and external calibration) having capacity of 152 g, resolution of 0.1 mg, repeatability of 0.1 mg and linearity of ±0.2 mg, with high speed weighing with 2 second calibration, removable, shatterproof breeze break and antistatic coating, compact foot print: 198mm×294 mm (smaller than A4 sheet of paper), equipped with rotating sliding doors, with density determination function, front mounted spirit level for adjusting the leveling feet (should in units g, mg, oz, ozt, ct, mom, dwt, gr, SG)
4	Stage and Eye piece micrometer	03	Square 1mm/100units for stage micrometer and 10mm/100units on X, Y with 24 dia/ t=1.5 mm for use with



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			10X, 100X, 250X or 400X magnifying lens
5	Brookfield Viscometer	01	(Viscosity range- 1 cp- 2million cp, with rpm 0.3 to 100 and number of increments-18), PC Interface for use with optional Wingather Software and output connection to printer, Direct access to time measurement function (time to torque, time to stop), should be fully equipped with spindle kit (such as bob, different type of spindle and other accessories) Temperature off-set capability to $\pm 5^{\circ}\text{C}$, Senses and displays continuously: Viscosity (cP or mPas)Temperature ($^{\circ}\text{C}$ or $^{\circ}\text{F}$) (OPTIONAL),% Torque, Speed (rpm),Spindle used, Torque measurement accuracy: 1% of full scale range, Repeatability: 0.2% of full scale range, Select all functions from user-friendly keypad, Choice of 18 rotational speeds, Optional RTD temperature probe, Auto-zero function to ensure precision torque measurement, Auto-range function to define full scale range (FSR) for all spindle/speed combinations.
6	Propeller type mechanical agitator	01	With LED type digital display, Speed range (60Hz) of 60 - 5000 rpm, Motor rating input-70 W, Motor rating output-35 W, Viscosity max.-10000 mPas, Output max. at stirring shaft-26 W, Permissible ON time-100 %, Torque max. at stirring shaft 150 Ncm, Chuck range min. diameter of 0.5 mm, Chuck range max. diameter of 10 mm, Hollow shaft, inner diameter of 10.5 mm, Extension arm diameter of 13 mm, Extension arm length of 160 mm, Dimensions (W x H x D)-88 x 294 x 212 mm, Weight-3.1 kg, Permissible ambient temperature of 5 - 40 $^{\circ}\text{C}$, Permissible relative humidity of 80 %
7	Steam distillation still	01	A double stage steam distillation apparatus (double distilled) made up of quartz boiler and coring condenser, should have a double stage output capacity of 5L, should be equipped with the heater safety system from burning out.
8	Standard Sieves	09	Should be made up of perforated steel plate with square holes in 8" diameter brass frame (without pan/lid), b.s.s no. (22, 25,30,44, 52, 60,72, 85 and 100)
9	Capsule filling machine	01	Contact parts stainless steel construction & use of non corrosive approved materials. Simple design and robust construction to long life and trouble free operation, All the loading plates are made of S.S 304 quality, Output 6000+ capsules/hour for capsules of '00' to '5'
10	Ampoule washing machine	01	A lab scalesemi-automatic multijetampoule washing machine having digitally controlled system with production rate of 100 ampoules /minute, for a ampoule diameter



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			between 10 mm to 20 mm, should be able to operate at power of 1HP, 440 Volt, 3 Phase, 4 Wire System, 50 Hz
11	Disintegration apparatus	01	<ul style="list-style-type: none"> • Advance Microcontroller based with user friendly software in dialog mode. • Alpha numeric splash proof keyboard allow entries like sample name, sample no./ID no. for data identification • Select report print out complies to GLP requirements • Built- In real time clock for date, time display & authenticity of print out. • Error indication to trace out the problem. • Meets specifications of USP, BP, I.P. etc. • Programmable temp. & time. • Moulded, clear, acrylic water bath with illumination for better visibility. • Baskets are automatically lifted at the end of the test. • Capability of dual buffer disintegration test. • Audible, low water level alarm with indication on display for safety. • Individual temperature sensor available for individual beakers. • PC compatibility for data downloading.
12	Collapsible tube crimping machine	01	<p>Suitable for crimping and coding Aluminum and collapsible tubes.</p> <p>hand operated model</p> <p>Accessories: SS made metallic fonts</p> <p>Portable compact model.</p> <p>Easy to use, no maintenance required.</p> <p>Speed: Up to 30 tubes per min.</p> <p>Crimping size: as required.</p>
13	Magnetic Stirrer	05	<p>Magnetic stirrer (of weight ~ 3Kg) with heating of max. stirring quantity (H₂O) ~ 5 L, having 15/1.5 W of motor (input/output) with speed range of 100-1500 rpm, heat output ~250W, temperature range of 50-500°C, LCD display for different targeted and actual temperature, having max. stirring bar length of 30 mm, adjustable safety circuit (550°C fixed), control accuracy with sensor $\pm 0.5K$, with ceramic as set-up plate material of dimensions up to 150 mm, (fully equipped with hot top indicator to prevent burns, elevated control panel for protection against spilled liquids, integrated temperature sensor of precise temperature</p>



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			control)
14	All-purpose equipment with all accessories	01	The equipment consisting of a mainverticaldrive (motor)should be able to operate at 1 HP, 230 v,50 Hz, single phase A.C, Themotor should be connected to sturdy worm reduction gear box, speed~ 0 to 400 rpm, The equipment should include all the accessories (V-blender- having capacity of 4.5 kg, dimensions 17" x 8" x 12" inch; dry granulator- having working capacity of 15 kg/hr, dimensions of 8" x 10" x 13" inch; coating pan- having a gross capacity of 9.5 L, dimensions of 12" x12" x 10" inch; pelletizer-having dimensions of 17" x 17" x 7" inch and gross weight of 15 kg; planetary mixer- having a gross capacity of 5L, working capacity 3 to 3.5 L and dimension of 14" x 10.5"x 16.5" inch).
15	Energy meter	02	Single phase electronic energy meter with LCD display, should have average service life of 20 years with basic current (maximum current) up to 20A (80) Rating current of transformer in 5A direct connection, Reference voltage: 220, 230 and 240V, Reference frequency: 50 or 60Hz, Power losses in voltage circuit at 50Hz: 1. 0W/5V. The meter case should be made up of insulating and protective-class II and weatherproof material, the terminal block should be made up of bakelite, max.diameter of terminal hole: 8.5mm, the driving element consists of voltage element and currentelement, both of which are fixed to frame, Rotor shaft made of aluminum alloy with small hole in upper end for storing lubrication and for fitting brass bearing, Magnet made of AlNiCo5 alloy and designed as U-shaped so that effect of short-time over current upon magnet negligible, Full load error can be fine controlled by adjustment mechanism
16	Precision melting point apparatus	01	A melting point apparatus (silicon oil bath type) equipped with microprocessor controlled (for auto gradient rate of heating control for high precision and accuracy), consisting of magnetic stirrer, glare free background illuminator and cylindrical silicon oil bath (capacity ~200 ml) having three small holes for holding the capillaries, one big hole for thermometer, and another big hole for boiling point tube/ temp sensors for calibration(equipped with LED 4 digit display temp. range: up to 300°C, suitable for melting and boiling point, readability in °C, resolution of 1°C. programmable, visual provision by optical magnifier,



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			automatic ramp rate proceeding, sample capacity of 3, should be suitable for any colored samples), The magnifying view should be programmed with HOLD key, RESET keys for protection from any power failure
17	Distillation Unit	01	A wall mounted distillation still of capacity 10 liters with whole body made up of stainless steel, fully equipped with high energy efficient industrial grade heating elements
18	Ostwald Viscometer	15	U-shaped Glass tube (capillary) based Ostwald's Viscometer having outflow time of 80 to 100s with water at 20°C
19	Stalagmometer	15	A lab scale instrument made up of straight borosilicate glass having size of 2.5mL. Specifically designed for checking the surface tension of liquids by drop count method.
20	Filtration assembly	01	A membrane filtration holding assembly (47 mm) made up of material-PSF conforming with US FDA 21CFR autoclavable material with upper chamber (of capacity 500 ml and lower chamber (of capacity 1000 ml), Removable membrane support plate for providing maximum flow rate and through put.
21	Permeability Cups	05	Permeability cup should be in compliance with ASTM Method D 1653, It should have face opening of the cup ~ 25 cm ² having a volume of 25 ml, weight ~ 140 grams. The cup assembly should be coated with alodine. All parts including cup, clamping ring, and cap should be made up from high grade aluminium and gaskets should be made up from PTFE/neoprene.
22	Anderson's pipette	03	550 ml vessel containing 10 ml pipette sealed into ground glass stopper used for the particle size determination (sedimentation pipette) consisting of 550ml. graduated cylinder, graduation from 0 to 20cm. and fitted with 10ml. pipette with three way stopcock, the tip of pipette at the level of 0 mark at the cylinder.
23	Phase Contrast Microscope	01	Inverted microscope with transmitted light LED illumination, having fixed stage plate with left or right hand drive carrying standard inserts for slide or various culture plates, flasks and Petri-dishes etc .A 4-fold revolving nosepiece with infinity optics, tube lens, phototubes-condenser holder including collector, aperture diaphragm and filter holder. Should be equipped with illuminated ON/OFF switch-interface - power supply including mains cable. Should have trinocular tube with 40-45° viewing angle, condenser with a free working distance of 35-40 mm and a numerical aperture of 0.45 or better for bright field phase contrast studies. Should have slider for phase contrast with 4



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			positions, 1x Bright field and 3x light rings for condenser., The objectives plan achromatic of 4x/5x, 10x, 20x and 40x with long working distance for brightfield and phase contrast applications. A10X magnification eye pieces with minimum 20 mm field of view.
24	Tissue Culture Station	01	Station should be made up of heavy duty mild steel, square pipe duly powder coated, shelf should be of size 48''x16'' and the distance b/w each shelf should be of 16''. The platform should be made out of 3mm thick hylem sheet with each shelf fitted with 4 no. of 40 W fluorescent lights (with electronic ballast), castor wheels should be provided for easy movement, Front side should be given for keeping and removing bottles, Photoperiodic timer/controller output and equipped with 3 UV tubes (in each shelf).
25	Diagnostic Kits for infectious diseases	01	Rapid in vitro immunoassay to aid in the rapid differential diagnosis of influenza type A and B viral infections. 15 minute test for Influenza Types A and B with excellent sensitivity and specificity, rapid immunoassay to detect Clostridium difficile toxins A and B in fecal specimens with >90 percent sensitivity and >99 percent specificity
26	Rheometer	01	A system with standard stand in modern, compact design, with a ball bearing immersion model supported electronically commutated synchron motor drive system for rheological measurements, with automatic component recognition system (Toolmaster™), C-LTD80/qc with Pt100 temperature control system with temp. probe (with a temperature range of: -20 to +80 °C), including a water bath thermostat for exact temperature control of measuring cup and the sample consisting of measuring cylinder B-CC27 and measuring cup C-CC27/QC-LTD, equipped with software license for one rheo meter MCR 51, 52 (in compliance with 21 CFR Part 11 function)
27	Viscometer	01	A viscometer (with viscosity range up to 200cp, glass of 0.2 to 2, size~1, stainless steel of 1 to 10, tantalum2 to 20) based on unique ball-release mechanism having wetted parts of glass, PTFE and Viton™ seals (stainless steel and tantalum floats), Should have three range options per tube allow for better accuracy in each range, Absolute reading, no electronics, should be suitable for the small samples below 10 ml, should be used with in constant temperature bath closed system ideal for highly evaporative and hygroscopically deteriorative solutions
28	Sonicator	01	A ultrasonicsonicator with a probe made up of stainless



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			steel 304 with dimensions of 12 mm and 20 mm should be operated at frequency range of 20 KHz \pm 2 KHz. Should be able to work at 120 watt ultrasonic power. Should be fitted with microprocessor based digital temperature indicator cum controller to control the temperature from ambient+5°C to 60°C., should be able to work at 220/230 V AC supply.
29	Respinometer	01	Polished Stainless Steel tank, with capacity of 7 manometers a side, Digital temperature display with resolution of 0.1 deg. C., Temperature control to within +/-0.5°C., Stainless Steel immersion heater., Stirrer for uniform temperature., Manometers mounted on graduated scale for reading pressure changes., Flask with center well & side flask attached to manometer., Oscillation of manometer approximately 90 rpm., Powder coated exterior, with wheels for easy mobility., Capacity 7 manometers, temperature range of 5°C above ambient to 60°C.
30	Autoclave	1	<p>15. Verticle type, stainless steel double wall construction, lid is made of thick die pressed stainless steel 304 sheet in mirror finish. The unit must be fitted with 8 wing nuts to hold the lid at high pressure.</p> <p>16. Microprocesssor bared PID controller with dual display for temp. and time.</p> <p>17. Alternatively displays the inner temperature of the chamber and remaining time of the current cycle.</p> <p>18. Gives alerts after every minute with single sound after the sterilizing cycle starts.</p> <p>19. Give the facility to increase or decrease the sterilizing time as per the requirement of the end user.</p> <p>20. On completion of cycle the display shows"done" with beep sound for 30 seconds.</p> <p>21. Depressuring & Unlocking the unit is manual.</p> <p>22. Operating temperature range between-121⁰-134⁰(prefer).</p> <p>23. Working pressure for sterilization process is (15 psi-17 psi).</p> <p>24. Working capacity is minimum 35 Ltrs.</p> <p>25. Power consumption -2 K.W.</p> <p>26. Low water level protection.</p> <p>27. Vacuum process- w/o Vacuum.</p> <p>28. Gross weight range 130-145 kg.</p>
31	Zone Reader	1	The instrument should be measure the dia of ihhibited zone to 0.01mm with the range of 0 to 35mm and work on 230



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			volts AC/50Hz. Digital indication of antibiotic zone diameter.
32	Round bottom flask Capacity required- 500 ml 1000 ml <u>Condensor required</u> Allihn type Graham type	10 3 5 3 5	Made from High quality heat resistant borosilicate glass. Single neck round bottom flask, hand blown with heavy and uniform wall thickness. Made from high quality heat resistant borosilicate glass. Condensers Drip tip, interchangeable inner joint, interchangeable outer joint, borosilicate made up. Allihn - 280-300 mm X 440-445 mm (Length X height) of Jacket resp. Allihn - 360-400 mm X 500-550 mm (Length X height) of Jacket resp. Graham - 280-300 mm X 440-445 mm (Length X height) of Jacket resp.
33	Suction Pump	6	Portable diaphragm type pumps cum oil free and compressor which are made from special grade aluminum and good strength. Diaphragm is made of 2-ply nylon reinforced neoprene rubber. Valves are made from stainless steel -316 with special sealed bearing. Power supply 230-240v / 50 hz. Vacuum capacity 10-15 Lt / min, working temp range 5-40°C) No lubrication required during or before working. Noiseless performance. Pump available with flame proof motor and chemical resistant parts.
34	Magnetic Stirrer with thermostat	5	The enclosures of stirrer are made of metal painted with powder enamel chemically resistant to acid and alkali. The stirrer are well equipped with a detachable stand for supporting various sensor elements like temperature, pH and thermostat, inside the stirred liquid. Specification of magnetic stirrer - Speed control range=250-1250 rpm Max. stirring volume (water) =5-8 liters Plate temp. regulation range= +25 ⁰ to +330 ⁰ c Temperature uniformity on plate= +3 ⁰ c Working plate heating time till 330 ⁰ C= 15 min Diameter of working plate = 100-130 mm



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			<p>Working surface material= Aluminium alloy Max.stirring liquid viscosity = upto 1170 mpas. Operational voltage=230 v;/50/60 hz Fault indication-output sound signal and turns off the heating/stirring. Display the inner speed of stirring (Lyn) and temp (c^o) of liquid.</p>
35	Distillation unit	1	<p>1) Single walled, fabricated with heavy gauge high grade stainless sheet. 2) Provided along with high quality industrial grade immersion type heaters. 3) The distillation still provides continuous supply of pyrogen free distilled water. 4) Equipped with brackets for wall mounting connectors, cord and plug. 5) Suitable to operate on 230/ 240 volts/ 50 HZ. 6) Output capacity of unit minimum 4 Lt/hr.</p>
36	Nessler Cylinder 50 ml 100 ml	10 10	<p>Fabricated with borosilicate glass, class-A with blue ceramic graduation. Fabricated with borosilicate glass, class-A with blue ceramic graduation.</p>
37	Permanent Slides of various tissues	Minimum 100 slides	<p>Clear, permanently stained, good contrast, well labeled glass slides of different tissues of all organ systems. It should be supplied in a shock proof wooden box containing slide racks to hold maximum of 50 slides in each.</p>
38	Models of various organs	14	<p>High Quality Coloured Models with permanent non-fadable labeling. All models should be supplied with strong stainless steel stands. One each of following: 1. Male Reproductive System 2. Female Reproductive System 3. Human Kidney 4. Flexible Human Spinal Cord with Femur Heads 5. Human Skin 6. Nose & Pharynx 7. Circulatory System 8. Human Nephron 9. Human Tooth 10. Animal cell 11. Human Skeletal System 12. Muscular System 13. Endocrine system</p>



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			14.Lymphatic/immune system
39	Specimens for various organs and systems	10	<p>All specimens should be stored in good quality, clear, tightly closed leak proof and labeled glass containers with preservatives. Five additional glass containers should also be supplied.</p> <p>One Each of Following:</p> <ol style="list-style-type: none"> 1. Liver 2. Kidney 3. Heart 4. Brain 5. Lungs 6. Eye 7. Stomach 8. Intestine 9. Gall Bladder 10. Pancreas
40	Different contraceptive devices and models	04 EACH	<ol style="list-style-type: none"> 1. Copper-T: 10 Nos. 2. Condom: 05 packs 3. Pills like Mala-D, Saheli, 4. I-Pill
41	Muscle electrode	01	<ul style="list-style-type: none"> • For study of skeletal muscle contractions of single muscle twitch using frog gastrocnemius muscle. • Two pin electrodes • Stimulator of varying voltage starting from 0.00 V to 10 V with minimum div. of 0.01
42	Computer with LCD	01	<p>Screen: LCD 17"</p> <p>Processor: Intel (R) core (TM) i-3 CPU 2.4 GHz</p> <p>Windows: Windows 10</p> <p>RAM: 4GB with 1 GB Graphic Card</p> <p>HDD: 1 TB</p> <p>UPS: Extended Power Back-up</p> <p>DVD-ROM</p>
43	Software	05	<ul style="list-style-type: none"> • Video, audio and text demonstration of



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University Procurement & Facility Department

SHORT TERM e-TENDER NOTICE FOR PHARMACY EQUIPMENTS

	packages for experiment		<p>experimental animals, basic equipments and techniques</p> <ul style="list-style-type: none"> • Different types of bioassays of isolated tissues and effect of different drugs • Behavioural Pharmacology • Effect of drugs on heart • Mydriatic and miotic effect of drugs on rabbit eye • Any other experiment using study on whole or tissue of animals. <p>Note: Two modes of operation i.e. laboratory demonstration and examination mode should be provided</p>
44	Standard graphs of various drugs	01 each	Chart Paper printed material showing sample graphs of effect of some drugs on different tissues/organ/organ system for demonstration of their action like effect of adrenaline, noradrenaline, acetylcholine, histamine, serotonin, dopamine, dobutamine etc.
45	Analgesiometer	01	<p>Tail Flick Type:</p> <p>Radiant Heat type incorporates Digital PID Temperature controller Digital current or Ampere controller, special variable safety devise to automatically cut heating off at present 10 to 60 secs. Interval to prevent tissue damage. Quick heating for rapid repitition of experiment. With photoelectric tail flick sensor and digital timer. Flick tail cut heat off and hold displayed time till reset. Supply with rat holder.</p> <p>Provide with Nichrome wire as element to work on 220 V. Provide two additional set of nichrome wires.</p>
46	HPLC	01	<p><u>Quaternary Gradient Integrated High Performance Liquid Chromatography System consisting of the following :</u></p> <p>1. Solvent Delivery System for Quaternary gradient</p> <ul style="list-style-type: none"> • The flow rate should be settable between 0.001 to 5 ml/min. • Flow rate accuracy should be within $\pm 1\%$ or + 2ul whichever is larger. • Flow rate precision should be within $\pm 0.075\%$ RSD. • Maximum Operating Pressure upto 5000 psi. • It should have automatic rinsing mechanism for cleaning of plunger. • It must have a leak sensor as safety feature. • It should have functions for maintenance and validation which are accessible by a dedicated



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			<p>operation button.</p> <p>2. Degassing Unit</p> <ul style="list-style-type: none">• Membrane degassing unit for 5 flow lines(4 X Mobile phase, 1 X Autosampler rinsing)• It must have a leak sensor as safety feature. <p>3. Dual Wavelength UV-VIS Detector</p> <ul style="list-style-type: none">• Wavelength range: 190 nm - 600 nm• Wavelength accuracy: ± 1 nm• Wavelength precision: ± 0.1 nm• Drift: Less than 1×10^{-4} AU/Hour• Noise Level: $\pm 0.25 \times 10^{-5}$ AU• A standard cell [Length 10 mm, volume: 8 ul] should be available.• It should have automatic wavelength accuracy check at 4 wavelengths (UV & VIS) & wavelength correction.• Number of different wavelengths to be monitored & quantitated simultaneously: 2• A leak sensor and lamp replacement protection system. <p>4. Auto-Sample Injector</p> <ul style="list-style-type: none">• Sample injection volume should be variable between 0.1 μl to 100 μl [0.1 μl step].• Number of samples to be processed automatically, random access up to 350.• Flow line rinse capability both before and after sampling should be possible.• Carry over must be within 0.01 %• The injection reproducibility should be less than 0.3% RSD• Injection volume accuracy $\pm 1\%$• Should be capable of accommodating microtiter plates of 96 or 384 wells as well• Temperature setting range of sample cooler should be from 4 - 40°C.• It must have a leak sensor, automatic rack and vial recognition as safety feature. <p>5. Column Oven</p> <ul style="list-style-type: none">• It should be block heating type oven with pre-heating of mobile phase for uniform temperature distribution and with a quick feedback mechanism to maintain constant temperature level even when power source voltage fluctuates.
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			<ul style="list-style-type: none"> The temperature range should be 4°C to 60°C. Temperature control precision should be $\pm 0.1^{\circ}\text{C}$ It should accommodate upto 2 columns of 30 cm length and post column reaction coils. The oven should have temperature limit device and temperature fuse and a solvent leak sensor. <p>6. System Controller</p> <ul style="list-style-type: none"> It should store upto 20 analysis files with a total upto 400 steps of time programs It must have the capability of data buffering to protect collected chromatography data from PC failure . <p>10. Software</p> <ul style="list-style-type: none"> Original, Authenticated software with part no. should be quoted. Compliance to GLP/GMP and US FDA CFR Part 11. Auto start-up, Auto shut-down, baseline stability auto judgement, Auto-validation, Auto purge, etc. must be available from the touch of a button <p>11. Columns:</p> <ul style="list-style-type: none"> C-18, 250mm X 4.6, 5u - (3 No.s) <p>12. Warranty</p> <p>System must carry 1 year Warranty and 2 Years Free AMC on site.</p>
47.	Digital Balance-10 mg sensitivity	6	<p>Specification-capacity 120gm Minimum display-0.01mg Repeatability (standard deviation) -<0.1mg (large range) - <0.02mg (small range) Response time - 3 seconds (large range) 12 seconds (small range) Operating temperature - 5⁰-45⁰c Pan size - 70-90 mm dia approx Bright LED easily readable display. Built in tare facility and calibration facility Provided with kg,lb and oz units Overload protection Provided with A.C adaptor</p>
48.	Digital balance-1mg sensitivity	1	<p>Specification – Max. Capacity - 40g Repeatability (standard deviation) - < 0.1 mg (large range) - <0.02mg (small range) Response time - 3 seconds (large range) 12 seconds (small range) Operating temperature - 5⁰ – 45⁰ C</p>



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			Pan size - 70-90 mm dia approx Bright LED easily readable display. Built in tare and calibration facility. Provided with kg, lb and oz units. Overload protection. Provided with A.C adaptor.
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The tender document containing detailed terms & conditions may be downloaded from the e-procurement website of the Punjab Government i.e. <https://eproc.punjab.gov.in> and its details may also be seen at the University website i.e. www.bfuhs.ac.in

TERMS AND CONDITIONS:-

1. The Earnest Money Deposit of Rs. 100,000/- only (Rs. One Lakh Only) must be submitted in the shape of a Bank Demand Draft of any nationalized bank and issued in the favour of “ Registrar, Baba Farid University of Health Sciences, Faridkot” payable at “Faridkot” and must be submitted upto 1.30 p.m. of the last date fixed for the submission of the tenders through e-tender mode. The bidder who will not submit the demand draft upto the last date and time fixed for the submission of tender will be considered as In-valid and his/ her bid will be rejected without any prior notice. The demand draft must reach to the office of the Incharge (UPFD) on which the name and address of the bidder must be written on its back side.
2. The tenders will be opened on the same day at 2.30 PM, on the e-procurement portal of the Punjab Government in the presence of tenderer(s), who wish to be present in the said tender opening process. However, the individuals keen to attend the tender opening process should have an authorization certificate from the company.
3. The Price bid (Financial Bids) will be opened after the opening of Technical Bid. The Price Bid (Financial Bids) of the technical qualified bidders will be opened by the University.
4. The Registrar, Baba Farid University of Health Sciences, Faridkot reserves all rights to accept or reject any or all the tenders without assigning any reason.

Registrar



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Annexure-II

(To be furnished on non-judicial stamp papers
worth Rs.30/- duly attested by Executive Magistrate or Notary Public).

AFFIDAVIT

I/We _____ partner/sole
proprietor (Strike out which is not applicable) of (Name & Address of Firm)
_____ do hereby declare and solemnly affirm:-

- a) That the individual/firm/ companies are **not debarred or black- listed** by any department of Union/ State Government or any autonomous institute.
- b) That no partner or shareholder, directly or indirectly connected with the applicant has been debarred or blacklisted by any department of Union Govt./State Govt./Autonomous Institute.
- c) That the terms and conditions for supply of **"Supply and Proper Installation of Pharmacy Equipments for the University Institute of Pharmaceutical Sciences & Research, Faridkot" or any other Constituent Institution of the BFUHS Located throughout the State of Punjab upto 31.12.2018** are acceptable to me/us. I/We will abide by them in letter and spirit.
- d) That I will supply and install the required material within the stipulated delivery period of the tender document/ supply .

Date: _____

Place: _____

DEPONENT

VERIFICATION

I/We do hereby solemnly declare and affirm that the above declarations are true and correct to the best of my/our knowledge and belief. No part of it is false and nothing has been concealed therein.

Date: _____

Place: _____

DEPONENT



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Annexure-III

TECHNICAL BID

- 1 Name of the applicant _____
(tenderer/ bidder).
- 2 Constitutional status of the _____
tenderer/ bidder.
i.e. Proprietor/ Partnership firm/ Pvt. Limited
Company/ Public Limited Company/ Co-op
Society etc.
- 3 Address of the tenderer/ _____
bidder

- 4 Name of the Dealing Person :- _____
- 6 Position of the dealing person _____
in the tenderer firm/
company/ society :-
- 7 E mail id:- _____
- 8 Fax No:- _____
- 9 Mobile No:- _____
- 10 Details of the Earnest Money Deposit (EMD):-
(A) *In case EMD is deposited in the shape of a demand draft:-*
Demand Draft No. _____
Date of demand draft _____
Amount of the demand draft Rs. 100000/- only
Bank with branch name _____



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10 PAN Number

11 VAT No.

CHECK LIST DULY FILLED IN TO BE ATTACHED WITH THE TENDER

Sr. No.	Particulars	Remarks
1.	Copy of Tender Notice attached – Annexure – I (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
2.	Whether an affidavit on the non-judicial stamp paper, duly attested by the Executive Magistrate/Notary, regarding non-black listing/ non-prosecution of firm has been submitted? – Annexure – II (Scanned copy uploaded on the e-procurement portal or not?) The Original affidavit must be submitted to the Incharge, University Procurement & Facility Department, Faridkot before the last date and time fixed for the opening of the technical bids.	Yes/No
3.	Technical Bid Proforma attached – Annexure – III (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
4.	Signed copy of terms & conditions attached – Annexure – IV (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
5.	Bank Details (Annexure – V) for refund of EMD attached (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
6.	Signed copy of an acceptance of tender/ conditions (Annexure – VI) (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
7.	Whether the fee of Rs. 500/- on account of Tender Fee has been	Yes/No



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	submitted through Demand Draft or not?	
8.	<p>Whether an EMD of the appropriate value i.e. Rs. 1,00,000/- only (Rs. One Lac Only) has been submitted in the shape of a Bank <u>Demand Draft</u> issued in the favour of <i>“The Registrar, Baba Farid University of Health Sciences, Faridkot”</i> and payable at “Faridkot” has been submitted to the Incharge, University Procurement and Facility Department.</p> <p>Whether a soft copy of the same has been uploaded on the designated website at the time of submission of the tender or not?</p> <p>Demand Draft No:- _____</p> <p>Dated:- ____/____/____</p> <p>Bank Name :- _____</p>	Yes/No
9.	<p>Whether each page of the tender document and other enclosures as well as cutting(s)/ overwriting(s) have been signed/ initialed by the tenderer and also the forwarding letter duly signed by the authorized signatory, has been submitted?</p> <p>(Scanned copy uploaded on the e-procurement portal or not?)</p>	Yes/No
10.	<p>Copy of Certificate of Registration for service Tax/VAT/ TIN/TAN/PAN attached.</p> <p>(Scanned copy uploaded on the e-procurement portal or not?)</p>	Yes/No
11.	<p>The bidder must have an annual turnover of atleast Rs. 200 lacs (02 Crores) during the last 03 financial year (Each year). A copy of the Audited balance sheet will be uploaded on the website as a documentary evidence.</p> <p>Whether a copy of Audited Balance Sheet of last three financial years have been uploaded on the website along with technical bid or not?</p>	Yes/ No



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12.	Whether a copy of the Income tax return of last three financial years have been uploaded on the website along with the technical bid or not?	Yes/ No
-----	--	---------

Note: Non compliance to any of the above conditions will render the offer/ tender to be rejected out-rightly and Price bid of the firm will not be opened.

Dated:- _____.

Place:- _____.

Signature_____

Name:-_____

Address:- _____

Contract No:-_____

E-mail id:-_____

With Seal



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Annexure-IV

TERMS AND CONDITONS

Short Term e-TENDER DOCUMENT FOR supply of Pharmacy Equipments/ items for the University College of Pharmaceutical Sciences, Faridkot (A constituent institution of the Baba Farid University of Health Sciences, Faridkot). However the same items can also be purchased for any of the other constituent institution of the Baba Farid University of Health Sciences, Faridkot, located at different cities/ towns/ villages throughout the state of Punjab upto 31.12.2018.

1. The **Manufacturers/ General Merchants/Sole agents/Authorized firms/Distributors** may quote their rates.
2. Tenders will be submitted only through e-tendering mode. The tenders will not be submitted through any other mode, under any circumstances.
3. Tenders without earnest money or short of it or not in the form specified above will not be entertained and shall be rejected straightway.
4. No tenderer shall be exempted from furnishing Earnest Money Deposit (EMD) under any circumstances. The EMD shall be deposited in the shape of a bank demand draft, issued by any nationalized bank in the favour of the Registrar, Baba Farid University of Health Sciences, Faridkot (Punjab) and payable at Faridkot. The said demand draft must be submitted to the Incharge, University Procurement & Facility Department on or before the last date for submission of the e-tenders.
5. Earnest Money/ Security Deposit and/or any other sum of the tenderer(s) lying with the Baba Farid University of Health Sciences, Faridkot or Guru Gobind Singh Medical College & Hospital, Faridkot in connection with any other tender/case shall not be considered against this tender.
6. The bids received after the specified date and time for receipt of bids will not be considered under any circumstance. Registrar, BFUHS, Faridkot shall not be responsible for any type of delay in submission of the e-tenders.



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7. The material must be supplied within stipulated period i.e. Delivery period mentioned by the University in its Supply/ Purchase Order. The delivery period mentioned by the University will be treated as final and binding.
8. The rates once quoted will remain valid/ un-changed for a period upto 31.12.2018 or the period extended after this date.
9. The tenderer will be responsible to ensure that the tender is properly uploaded and submitted within well in time. The Earnest Money Deposit must be submitted before the last date and time for opening of the technical bids.
10. Each page of the tender document should be signed in full by the tenderer(s) and should bear the rubber stamp/seal of the firm affixed/ scanned, if applicable, on each page. Any cutting(s)/overwriting(s) etc. should also be initialed. In case of any infringement of these conditions, the tender is liable to be rejected. A scanned copy of the complete tender document should be uploaded on the e-procurement portal of the Govt. of Punjab.
11. In the event of the date of receipt or opening of tender being declared a holiday for the Baba Farid University of Health Sciences, Faridkot, the last date of receipt/opening of the tender shall be the next working day at the same time and venue. The Price Bid shall be opened only in respect of those individual/ firms, who technically qualify.
12. Any conditional, telegraphic tenders, fax tenders, tenders without earnest money, and not in the prescribed form or in any deviation from the terms and conditions of the tender notice shall not be entertained and will be rejected out rightly.
13. The tenderer(s) shall be at liberty to be present, in person or through their authorized representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the tenderer, on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender.
14. In case of violation of any of the terms and conditions as mentioned above, Earnest Money/ Security Deposit of the successful tenderer(s) shall be forfeited and the tender shall be cancelled.



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15. Any attempt, direct or indirect, to cast influence, negotiate on the part of the tenderer with the official/authority to whom he will submit the tender or the tender accepting official/ authority before the finalization of tenders will render the tender liable for rejection.
16. The rates quoted should be F.O.R. destination i.e. Central Store of the Baba Farid University of Health Sciences, Faridkot for the University Institute of Pharmaceutical Sciences & Research, Faridkot or Departmental stores of the constituent colleges of the Baba Farid University of Health Sciences, Faridkot (located at different locations throughout the State of Punjab) and should also include packing and forwarding charges, taxes and other levies.
17. The Registrar reserves all the rights to accept or reject any tender without assigning any reason and also to impose/relax any term and condition of the tender.
18. **CRITERIA OF EVALUATION OF PRICE BID**
The Price Bids of technically qualified bidders shall be evaluated on the basis of lowest bid criteria without compromising on the quality of material. Rates of all types of taxes as applicable should be quoted clearly.
19. **SECURITY DEPOSIT:**
- i) The successful bidder shall be required to deposit a security in the shape of a Bank Guarantee of any Nationalized Bank of 5% of the value of total order, within 15 days from the receipt of the Purchase Order. The said Bank Guarantee must have a validity upto 31.12.2018. The Bank guarantee must be issued in the favour of the Registrar, Baba Farid University of Health Sciences, Faridkot.
 - ii) EMD of Rs. 1,00,000/- submitted with the Tender in the shape of a demand draft will also be considered as Security Deposit, as agreed by the successful bidder. The said amount will be refunded after 31.12.2018.
 - iii) The Earnest Money Deposit will be refunded to the unsuccessful bidders within three months of the date of purchase order, without any type of interest.



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- iv) The above said amount of the security deposit will be retained by the University and will be refunded after 31.12.2018 or the period extended after this date.

20. PAYMENT TERMS

The payment of the bill will be made after delivery, and Inspection of material/ equipment.

The payments will be made in the following method:-

1	At the time of delivery of the materials and after inspection by the committee constituted by the University.	80% of the total amount of material supplied
2	After 6 months from the date of supply of materials	20% of the total amount of the Material supplied
3	Refund of EMD of Rs. 1,50,000/- only	After 31.12.2018 without any type of interest.

The payments will be made in the shape of account payee cheques or RTGS in the favour of the seller only. The payment will not be made to any third party under any circumstances.

21. PENALTY CLAUSE

If the supply is not made within the stipulated period then late delivery charges @2% will be imposed on the total amount of Supply Order up to delay of 30 days and thereafter @ 4% for another 30 days after which Supply Order/Rate Contract will be deemed cancelled & security/earnest money forfeited and company will be black-listed for future.

However, the University can grant 15 to 30 days relaxation in the delivery period, based on the written request of the tenderer, if the University observes that the tenderer has valid reasons for non- supply of material within the stipulated time/ period.

11. ARBITRATION



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- i) In the event of any dispute or differences arising between the parties with regard to the terms and conditions of the agreement/contract and/or with regard to the breach or interpretation thereof including all rights and liabilities there under on any matter whatsoever touching upon the terms and conditions of the agreement/contract whether in course of or after its termination the parties will settle the same at the first instance by mutual discussions/conciliation which would be conducted by the Incharge, University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot.
- ii) In the event the said mutual discussions/conciliation fails, the aggrieved party shall initiate arbitration proceedings for resolution of differences/disputes etc., mentioned above by appointing a sole arbitrator, who shall be the Registrar, BFUHS, Faridkot in which event the said proceeding shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act enforce.
- iii) The venue of such arbitration proceeding shall be at Faridkot and the court in Faridkot alone will have jurisdiction in respect of all proceedings connected there with.

22. Jurisdiction – All disputes are subject to the jurisdiction of courts at Faridkot only.

Dated:- _____.

Place:- _____.

Signature_____

Name:-_____

Address:- _____

Contract No:-_____

E-mail id:-_____

With Seal

Accepts all the terms & conditions of the Tender Under hand and seal of the authorized person

Accepted



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Dated:- _____.

Place:- _____.

Signature _____

Name:- _____

Address:- _____

Contract No:- _____

E-mail id:- _____

With Seal



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Annexure- V

Details about Bank Account of the firm who has deposited EMD

Name of the firm: M/s _____

Sr. No.	Particulars	Detail
1.	Account No.	_____
2.	Name of Bank	_____
3.	Branch Name	_____
4.	IFSC Code of Bank	_____
5.	Name of Operator	_____

Dated:- _____.

Place:- _____.

Signature _____

Name:- _____

Address:- _____

Contract No:- _____

E-mail id:- _____

With Seal



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Annexure- VI

TENDER/CONDITIONS ACCEPTANCE LETTER

Date:-----

To

The Registrar
Baba Farid University of Health Science,
Sadiq Road,
Faridkot.

Subject: Acceptance of Terms & Conditions of Tender.

Dear Sir,

1. I/ We have downloaded the tender document(s) for the above mentioned 'Tender/Work' from the designated website.
2. I / We hereby certify that I / we have read entire terms and conditions of the tender documents. (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your organization too has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirely.
5. In case any provisions of this tender are found violated, your organization shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/right against organization in satisfaction of this condition.

Yours Faithfully,

Signatures :- _____

Name:- _____

Address: - _____

Contact No:- _____



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Financial Bid

Name and Address of the firm:- _____

S.No	Name of Instrument	Specifications	Rate per Unit in Rs.	Gross rate per unit in Rs. (with installation at site)
1	Homogenizer	Strictly as per the Specifications mentioned in the tender document.		
2	Digital Balances	Strictly as per the Specifications mentioned in the tender document.		
3	Digital Balances	Strictly as per the Specifications mentioned in the tender document.		
4	Stage and Eye piece micrometer	Strictly as per the Specifications mentioned in the tender document.		
5	Brookfield Viscometer	Strictly as per the Specifications mentioned in the tender document.		
6	Propeller type mechanical agitator	Strictly as per the Specifications mentioned in the tender document.		
7	Steam distillation still	Strictly as per the Specifications mentioned in the tender document.		
8	Standard Sieves	Strictly as per the Specifications mentioned in the tender document.		
9	Capsule filling machine	Strictly as per the Specifications mentioned in the tender document.		
10	Ampoule washing machine	Strictly as per the Specifications mentioned in the tender document.		
11	Disintegration apparatus	Strictly as per the Specifications mentioned in the tender document.		
12	Collapsible tube crimping machine	Strictly as per the Specifications mentioned in the tender document.		
13	Magnetic Stirrer	Strictly as per the Specifications mentioned in the tender document.		
14	All-purpose equipment with all accessories	Strictly as per the Specifications mentioned in		



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		the tender document.		
15	Energy meter	Strictly as per the Specifications mentioned in the tender document.		
16	Precision melting point apparatus	Strictly as per the Specifications mentioned in the tender document.		
17	Distillation Unit	Strictly as per the Specifications mentioned in the tender document.		
18	Ostwald Viscometer	Strictly as per the Specifications mentioned in the tender document.		
19	Stalagmometer	Strictly as per the Specifications mentioned in the tender document.		
20	Filtration assembly	Strictly as per the Specifications mentioned in the tender document.		
21	Permeability Cups	Strictly as per the Specifications mentioned in the tender document.		
22	Anderson's pipette	Strictly as per the Specifications mentioned in the tender document.		
23	Phase Contrast Microscope	Strictly as per the Specifications mentioned in the tender document.		
24	Tissue Culture Station	Strictly as per the Specifications mentioned in the tender document.		
25	Diagnostic Kits for infectious diseases	Strictly as per the Specifications mentioned in the tender document.		
26	Rheometer	Strictly as per the Specifications mentioned in the tender document.		
27	Viscometer	Strictly as per the Specifications mentioned in the tender document.		
28	Sonicator	Strictly as per the Specifications mentioned in the tender document.		
29	Respinometer	Strictly as per the Specifications mentioned in the tender document.		
30	Autoclave	Strictly as per the Specifications mentioned in the tender document.		
31	Zone Reader	Strictly as per the Specifications mentioned in the tender document.		



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32	Round bottom flask <i>Capacity required-</i> 500 ml 1000 ml <u><i>Condensor required</i></u> Allihn type <i>Graham type</i>	Strictly as per the Specifications mentioned in the tender document.		
33	Suction Pump	Strictly as per the Specifications mentioned in the tender document.		
34	Magnetic Stirrer with thermostat	Strictly as per the Specifications mentioned in the tender document.		
35	Distillation unit	Strictly as per the Specifications mentioned in the tender document.		
36	Nessler Cylinder 50 ml 100 ml	Strictly as per the Specifications mentioned in the tender document.		
37	Permanent Slides of various tissues	Strictly as per the Specifications mentioned in the tender document.		
38	Models of various organs	Strictly as per the Specifications mentioned in the tender document.		
39	Specimens for various organs and systems	Strictly as per the Specifications mentioned in the tender document.		
40	Different contraceptive devices and models	Strictly as per the Specifications mentioned in the tender document.		
41	Muscle electrode	Strictly as per the Specifications mentioned in the tender document.		
42	Computer with LCD	Strictly as per the Specifications mentioned in the tender document.		
43	Software packages for experiment	Strictly as per the Specifications mentioned in the tender document.		
44	Standard graphs of various drugs	Strictly as per the Specifications mentioned in the tender document.		
45	Analgesiometer	Strictly as per the Specifications mentioned in the tender document.		
46	HPLC	Strictly as per the Specifications mentioned in the tender document.		



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47.	Digital Balance-10 mg sensitivity	Strictly as per the Specifications mentioned in the tender document.		
48.	Digital balance- 1mg sensitivity	Strictly as per the Specifications mentioned in the tender document.		

Note:-

The financial/ price bid must be submitted at the prescribed place only through online mode only.

The bidder must quote only basic prices in the tender. The GST will be paid to the bidder extra as per the govt norms.