



**DIRECTORATE OF VETERINARY RESEARCH AND DIAGNOSIS
CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH
TANDO JAM TELEPHONE # 0222765279 FAX # 0222766964.**

BID EVALUATION REPORT.

1.	Name of procuring Agency.	Director, Veterinary Research & Diagnosis, Central Veterinary Diagnostic Laboratory Sindh, Tando Jam.	
2.	Tender Reference No.	No.CVDL/AC/ Tender/ 2014-15(III) . No.CVDL/AC/ Tender/ 2014-15(IV) .	
3.	Tender description Name of work/item.	1. Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture. 2. Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine and Feeding for Experimental Animals. Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material, Livestock Feeding for Animals and First Aid Medicine.	
4.	Method of procurement.	Single Stage - One Envelope Procedure	
5.	Tender Published.	Daily Sindh Express Hyderabad, Daily Express Karachi, Daily Times and Daily Jang Karachi dated January 8-10, 2015 and Sindh Government website dated January 8, 2015.	
	SPPRA website	S.No.22320	
6.	Total bid documents Sold.	No.CVDL/AC/ Tender/ 2014-15(III) .	14 Nos.
		No.CVDL/AC/ Tender/ 2014-15(IV) .	19 Nos.
7.	Total bids received.	No.CVDL/AC/ Tender/ 2014-15(III) .	08 Nos.
		No.CVDL/AC/ Tender/ 2014-15(IV) .	16 Nos.
8.	Technical Bid opening date.	29-01-2015	
9.	No. of technically qualified (if applicable)	No.CVDL/AC/ Tender/ 2014-15(III) .	16 Nos.
		No.CVDL/AC/ Tender/ 2014-15(IV) .	08 Nos.
10.	Bid(s) Rejected.	Nil	
11.	Financial Bid Opening dated	13-02-2015	
12.	Bid evaluation Report.	Comparative Statement, Evaluation report & Minutes of Procurement Committee Attached Annexure-A ,B & C.	

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
Central Veterinary Diagnostic Laboratory
Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department,
Government Of Sindh, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research)
Sindh, Hyderabad.



**GOVERNMENT OF SINDH
LIVESTOCK & FISHERIES DEPARTMENT
VETERINARY RESEARCH & DIAGNOSIS
Central Veterinary Diagnostic Laboratory,
TANDO JAM, (SINDH) ☎ (+) 022/2765279**



COMPARATIVE STATEMENT FINANCIAL TECHNICALLY ITEMS QUALIFIED

**FOR PROCUREMENT
DURING THE FINANCIAL YEAR 2014-2015 OF**

- 1. Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture.**
- 2. Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine And Feeding For Experimental Animals.**

**DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS,
CVDL SINDH, TANDO JAM.**

1. PURCHASE OF HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE.

Of the **Fourteen (14)** firms, **eight (08)** firms participated in the tender,

1. M/S Scientific Technical Corporation (Pvt.) Lahore.
2. M/S Al-Beruni Scientific Store, Hyderabad
3. M/S Talha Enterprises, Karachi
4. M/S ScienTec Karachi
5. M/S Burraq Business Corporation, Hyderabad
6. M/S Habib & Sons, Karachi
7. M/S World Wide Scientific Karachi
8. M/S Roghay Sons, Karachi

Sr. #	Name of items with specification.
A	Purchase of Hardware
1.	<p>Computers and Printers with all accessories.</p> <p>Desktop computer Processor Intel core i7 3.06 Or higher specification Mother Board, Intel original. Or higher specification Ram 4 GB DDR-3 Or higher specification, Hard Disk 500GB or higher. Casing ATX casing legend with heavy duty power supply. Optical drive, HD/DVD – Reader & writer Graphic Card Builtin. Key Board Heavy duty. Ether net card. 10/100 Mouse Heavy duty. Monitor LED17” or above, HD slot in CPU and connection. Dust cover Heavy duty Mouse Pad Thick Head phone With sound control. Sound Card Real Tack ALC 8885 or above. USB slots 4 No. 4 No. Operating system Windows 7, Genuine licensed CD</p> <p>Home/Professional Microsoft. with H.P. LASER JET 1020 or higher specification. Print technology Laser Processor Speed 266 MHz Maximum RAM 8 MB Standard RAM 8 MB Resolution 600 x 600 dpi Print speed B/W 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/A5/B5/ Letter/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.</p>

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S Habib & Sons, Hyderabad.	<p>Intel core i7 Desktop computer, PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS: Graphic Card, OPERATING SYS:Windows-7 (licensed), INPUT DEVICES:KB/Mouse, EXTRAS Dust Cover, Headphone. Screen Size:17" W, Viewable Image Size:470mm, Pixel Pitch:0.3(H)x0.3 (V)mm, Display Area:409.8 (H)x230.4 (V)mm. Brightness:200 cd/m², Contrast Ratio (typical):20000000:1 (DCR), Viewing Angle:90/50 (CR≥10), Recommended, Resolution:1366x768 @60Hz, Display Colours:16.7M, Input Signal: Analog RGB, Input Connector:15-pin D-Sub, Power Supply:90~240VAC, 50/60Hz, Power Consumption: Power On: <18W (Typical), Standby: <0.5W, Plug & Play: VESA DDC2B™ & DDC2B/CI, User Control: Auto/Exit, Eco(DCR)-, Image Ratio/+, Menu, Power, OSD Languages:16 languages, Speakers: No, Cabinet Colour: Black, Contrast Ratio:600 : 1,</p> <p>Note: If the same model not available at the time of delivery model of the product specified will be provided as per market availability. With HP LaserJet P1102W, Print Technology: Monochrome LaserJet, Print Speed:Up to 19PPM, Resolution: Up to 600x600x 2dpi (1200dpi effective output), Duty Cycle 5000pages monthly, Paper Handling: 10sheet priority feed slot, 150-sheet input tray, Processor:266 MHz Tensilica, Duplex:Manual, Wireless Connectivity: Yes WiFi 802.11b/g.</p>	Rs.124,500
2.	M/S Burraq Business Corporation, Hyderabad	<p>PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS: Graphic Card, OPERATING SYS:Windows-7 (licensed) With HP LaserJet P1102W</p>	Rs.134,900/ each

B	Purchase of Plant & Machinery.
2	ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, Chromate, USA/U.K./Germany or Exact Equivalent imported.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Absorbance Reader Model: ELx800, BIOTEK INSTRUMENTS INC., USA , Reading speed:96 wells: 30 seconds, Physical Characteristics Power: 100 - 240 Volts AC. 50/60 Hz. Dimensions:15"W x 16.5"D x 7"H (38.1 x 41.9 x 17.8 cm) Specification Local Arrangement	Rs.582,660/- each
		A). Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. Minimum System Requirements: • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions)	Rs.111,735/- each
		B) Printer Epson. To be used direct with Elx800.	Rs.52,650/- each
		C) Computer System, Core i3 with 18.5" LCD, Standard	Rs.79,560/- each
2.	M/S Talha Enterprises, Karachi	Absorbance Micro plate Spectrophotometer Model: EPOCH General : Wavelength selection Monochromator Read methods End point, kinetic, spectral scan, well area scan Microplate types Microplate types 6- to 384-well plates, Other labware Take3™ Micro-Volume Plate, BioCell Software Gen5™ Data Analysis Software Automation BioStack™ and 3rd party automation compatible ('R' configuration). Absorbance Light source Xenon flash Wavelength selection Monochromator, selectable 1 nm or greater increments Wavelength range 200 nm-999nm, selectable in 1 nm increments Bandwidth 5 nm, Dynamic range 0-4.0OD. OD Reading speed 96 wells: 15 seconds 384 wells: 31 seconds. Made by Biotech USA	Rs.1,925,000/- each
3.	M/S Roghay Sons, Karachi	ELISA MICROPLATE READER, Model ELX 800 Technical Specification: Detection modes, Absorbance, Read methods, End point, kinetic and area scanning under computer control Microplate types 6- to 384-well plates, 60/72/96-well Terasaki plates, Light source: Tungsten halogen Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Dynamic range: 0 to 3.0 OD, Resolution:0.001 OD, Filters supplied:4 filters, OD repeatability:<0.5% at 2.0 OD, Reading speed:96 wells: 30 seconds, Regulatory:For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant, Mfr. Biotek,USA,	Rs.799,000/- each
		Additional Accessory.	
		(a) Gen 5 Software.	Rs.179,999/- each
	(b) PC latest available.	Rs. 99,999/- each	

3	<p>Auto micro plate washer with accessories strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Thermo, Bio Tech, Bio Rad, UK, USA, Germany or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Assays: ELISA (Cell-based assays) Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types:96 well. Maintenance: Pre-programmed maintenance routines. Magnet: High strength 96-well format. Washing Manifold Types:96-well washing: 8-tube (1x8) manifold. Washing Speed: Solid bottom plates 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds Volume Range: 25 - 3,000 µL/well (configuration dependent). Selectable in 1 µL increments. Flow Rates: 1 - 9. Wash Cycles: 1 - 10. Supply Bottle: 2 L. Physical Characteristics Power:100 - 240 Volts AC. 50/60 Hz. Dimensions: 14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm).</p>	Rs.582,660/- each
2.	M/S Talha Enterprises, Karachi	<p>Microplate Elisa Washer Model: ELX50/8 Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300µL/well, 96-well (16-channel) Operating 15C to 40C, Biomagnetic Separation No Wash Cycles: 1 to 10, Volume Range: 25 to 3000µL/well, Fluid Delivery: Internal positive displacement syringe pump Buffer Selection: Optional switching of up to 3 wash buffers Dispense Precision: _ 3% CV, Residual Volume:_ 2µL/well, Onboard Software:75 programs, Program linking, Overflow wash/overflow, protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) , Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg) Power: Compatible with 100 to 240 V~ i}10% at 50-60 Hz 4070513S 12 Channel Manifold Biotech USA</p>	Rs.635,000/- each
3.	M/S Roghay Sons, Karachi	<p>ELISA MICROPLATE WASHER, Model ELX50 General: Syringe drive fluid delivery system for precise control over all fluid flow rates, Wash single strips or full plates, 96- and 384-well microplates Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance Automatic buffer switching, Create, edit, delete and copy up to 75 programs from the keypad Link up to 10 programs to run the most complex routines, Multi-user friendly; Mfr. Biotek, USA</p>	Rs.799,000/- each.

4	<p>ELISA reader with Microplate washer</p> <p>a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported.</p> <p>with</p> <p>b). Microplate washer with accessories; strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>A) Elisa Reader with Microplate Washer Model: ELx800, BIOTEK INSTRUMENTS INC., USA. General. Detection modes: Absorbance Read methods:End point, kinetic and area scanning under computer control. Microplate types: 6- to 384-well plates. Software: Gen5 Reader Control Software. Onboard software: 55 user-programmable protocols. Absorbance: Light source: Tungsten halogen. Wavelength selection:Filters Wavelength range: 400 to 750 nm. Bandwidth:10 nm. Dynamic range: 0 to 3.0 OD. Resolution: 0.001 OD. Filter wheel capacity: 5 positions. OD accuracy:<1% at 2.0 OD OD linearity:<1% at 2.0 OD, <3% at 3.0 OD OD repeatability: <0.5% at 2.0 OD. Reading speed:96 wells: 30 seconds.</p> <p>B). Auto plate Washer. Model: Elx50, BIOTEK INSTRUMENTS INC., USA. General. Assays:ELISA. Cell-based assays. Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types: 96 well. Washing Manifold Types:96-well washing: 8-tube (1x8) manifold. Washing Speed: Solid bottom plates 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds. Volume Range: 25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments. Flow Rates:1 - 9. Wash Cycles: 1 - 10. Dispense Precision:≤3% CV Residual Volume: Solid bottom plates ≤2 µL/well Filter bottom plates Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted</p>	Rs.1,165,320/- each.
		<p>A) Data Analysis Software Gen5™ , BIOTEK INSTRUMENTS, INC., USA. Applications: Gen5, used with BioTek microplate readers, supports many microplate applications in Absorbance, Top and Bottom. Fluorescence, Flash and Glow Luminescence, Time-Resolved. Fluorescence and Fluorescence Polarization, including: Calcium Uptake. Nucleic Acid Quantitation. Protein Assays. Dual-Luciferase® Assays. Enzyme Kinetics. Live/Dead Assays. Cell Proliferation Studies. ELISA, FRET Assays, Endotoxin Analysis. GFP Assays, BRET, HTRF® Minimum System Requirements: • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions), • Intel® Pentium® III-Class PC or compatible processor (500 MHz or higher), • 512 MB RAM or higher 2 GB Hard Drive space, • Designed for XGA Resolution at 1024 x 768, • CD-ROM drive, • Keyboard, • Mouse, Microsoft® Internet Explorer® v 5.0 or higher (for Online Help), Microsoft Excel® 2000 or later (for Quick Export and Power Export™ feature)</p>	Rs.111,735/- each
		B) Printer Epson To be used direct with Elx800.	Rs.52,650/- each
		C) Computer System, Core i3 with 18.5" LCD, Standard Specification Local Arrangement	Rs.79,560/- each

2.	M/S Roghay Sons, Karachi	ELISA MICROPLATE READER Model ELX 800, General. Detection modes: Absorbance, Read methods:End point, kinetic and area scanning under computer control. Microplate types 6- to 384-well plates. 60/72/96-well Terasaki plates (NB option). Light source:Tungsten halogen. Wavelength selection: Filters. Wavelength range: 400 to 750 nm. Bandwidth: 10 nm. Dynamic range: 0 to 3.0 OD Resolution: 0.001 OD. Filter wheel capacity:5 positions Filters supplied: 4 filters. Regulatory: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant. Mfr. Biotek, USA.	Rs.799,000/- each
		(b) ELISA MICROPLATE WASHER, Model ELX50, General Syringe drive fluid delivery system for precise control over all fluid flow rates. Wash single strips or full plates. 96- and 384-well microplates. Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance. Automatic buffer switching. Create, edit, delete and copy up to 75 programs from the keypad. Link up to 10 programs to run the most complex routines. Multi-user friendly; total programming control for complex research applications, yet easy to use for routine clinical work. Programmable shaking duration and intensity. Built-in maintenance programs. Bottom washing and crosswise aspiration protocols. Small footprint with integrated dispense and waste pumps. Aerosol cover for safety. Mfr. Biotek, USA.	Rs.799,000/- each
		Addition Accessory	
		(I) Gen 5 software	Rs.179,999/- each
		(II) Computer with LED Screen.	Rs.99,999/- each
			Rs.1,598,000

5	Single channel pipette 10-100µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable. With Calibration Certificate. Cat. No: 825.0100, Serial: Acura 825, SOCOREX, SWITZERLAND. Volume Range: 10 – 100µl.	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable Tip Holders and Tip Ejectors are fully Autoclaveable, Up to 50% deduction of pipetting and purge forces Ranges as follows:- Measuring Range 10 to 100µl, Accuracy ±0.15µl Cat No. F144564, Model P100N, Gilson Made in France.	Rs.56,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat#4073) Make: Corning each.	Rs.42,650/-each

6	Single channel pipette 20-200µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable. Individually Calibrate, Fully Autoclaveable With Calibration Certificate. Cat. No: 825.0200, Serial: Acura 825. SOCOREX, SWITZERLAND. Volume Range: 20 – 200µl	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 20 to 200µl, Accuracy ±0.30µl Cat No. F144565, Model P200N , Gilson Made in France	Rs.56,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 20 TO 200 (Cat#4074) Make: Corning	Rs.42,650/- each

7	Single channel pipette 5-20µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate Cat. No: 825.0020, Serial: Acura 825 SOCOREX, SWITZERLAND. Volume Range: 2 – 20µl	Rs.32,175/- each.
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 2 to 20µl, Accuracy ±0.060µl Cat No. F144563, Model P20N , Gilson Made in France.	Rs.56,000/- each
3.	M/S ScienTech Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 2 TO 20 (Cat#4072) Make: Corning each.	Rs.42,650/- each

8	Single channel pipette 5-50µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable ,Individually Calibrate, Fully Autoclaveable, With Calibration Certificate, Cat. No: 825.0050, Serial: Acura 825, SOCOREX, Switzerland. Volume Range: 5 – 50µl	Rs.32,175/- each
2.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat#4073), Make: Corning each.	Rs.42,650/- each

9	Multi Channel (8 channel) pipette 10-100µl. adjustable (micro litre), autoclaveable Eppendorf/ Socorex/ Kartel or exact equivalent imported..
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Multi Pipettes 8-Channel , Cat No. 855.08.200, Serial: Acura manual 855, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 20 – 200µl, Division: 0.2µl	Rs.78,975/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Pipetman L Multi channel , the Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. adjustable tip ejector button has also been implemented to adapt to both right- and left-handed users. PIPETMAN L is an adjustable volume pipette that features a Gilson patented volume locking system. GLP Features , Convenient GLP features to PIPETMAN L, Additional GLP features include: Traceable serial number, Color-coded push-button Unique 2D identification bar code, Volume range 20 µl to 300 µl, Eight Channel Cat No. FA10016, Model P12x 300L Gilson Made in France.	Rs.164,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS PIPETTOR 8 CHANNEL 20 TO 200 (Cat # 4082) Make: Corning each.	Rs.97,950/- each

10	Single channel pipette 100-300µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable Individually Calibrate, Fully Autoclaveable, With Calibration Certificate Cat. No: 825.1000, Serial: Acura 825, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 100–1000µl, Division: 1 µl	Rs.32,175/- each
2.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 100 TO 1000 (Cat#4075) Make: Corning each.	Rs.42,650/- each

11	Single channel pipette 0.5-10µl, adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate, Cat. No: 825.0010, Serial: Acura 825, SOCOREX, Switzerland. <u>Specifications:</u> Volume Range: 0.5 – 10µl Division: 0.01µl	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Autocleavable, Up to 50% deduction of pipetting and purge forces Ranges as follows:- Measuring Range 1 to 10µl, Accuracy ±0.040µl, Cat No.F144562, Model P10N, Gilson Made in France.	Rs.51,800/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 0.5 TO 10 (Cat#4071) Make: Corning each.	Rs.42,650/- each

12	Distillator glass 4-litre P/H (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 4 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Distillation Apparatus all glass Borosilicate Glass fitted with metal element 3 KW capacity 4 Litre per hour, conductivity 4µs/cm, PH 5.5 to 6.5 Model IM-50, Irmeco Germany.	Rs.145,000/- each
2	M/S Talha Enterprises, Karachi	Distillator Glass 4-Litters P/H (Single Distillatory) Water Still Mono Distillation, with Shortage Tank Model: GFL2004. Capacity:4 liters / h. Conductivity approx. 2.3µs / cm at 25 °C *. Storage tank capacity 8 l, Cooling water required approx. 48 l / h. Minimum water pressure:3 bar to max. 7 bar. Exterior dimensions:(W x D x H) 620 x 330 x 460 mm. Electrical connection: 230 V / 50...60 Hz / 3.0 kW . Net weight approx.20.2kgs. Packing volume approx. 0.16 m3 Made By Germany	Rs.595,000/- each
3	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710 Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety . Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. Technical Specification: Out Put: 4 L. Wattage:3000 W. Voltage:230 V. Base Dimension:55 x 15 cm. M/s POBEL-SPAIN	Rs.275,000/- each

13	<p>Trinocular Microscope image capturing digital camera with LCD display. Trinocular head: 45 degree inclined trinocular head, 360 degree rotatable for comfort viewing. Objectives: 4x,10x,40x,100x Eye piece:10x wide field antifungal treated, Magnification: 40x,100x,400x,1000x. Condenser: Abbe NA 1.25 (oil) with iris diaphragm. Illumination: Built in LED. Microscope colour video camera: CMOS C mount adapter, 10-12 mega pixel compatible with window 7 or 8 , AV & USB connector, Krusse, Leica, Nikon, Olympus Japan/ Germany/ UK/ USA or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Microscope Trinocular Research Antimould Treated Stand 45 degree Trinocular observation tube, quadruple Fixed revolving nose piece Semi-Plan objectives 4X, 10X, 40X spring and 100X spring oil immersion, Semi-Plan Objectives extend clarity to the edge of the image, moveable Abbe Condenser with focusing control with aperture iris Diaphragm for critical focus coarse and fine focusing, tension adjustment, with built in low drive, mechanical stage with smooth moving coaxial controls, wide field eye piece 10X paired complete unit with standard accessories, built in variable Light Source Halogen Light 6Volt 20W, operated on 220 Volts, Model IM-910 Irmeco Germany. WITH Camera Color Microscopy Meiji Techno's milestone HD1000T HD color microscopy camera is a full- featured, standalone, HDMI scientific imaging solution offering full 1080p60 preview with perfect color reproduction and extremely fast frame rate streaming direct to monitor. You can operate the camera by directly connecting to a monitor without a PC and save images into an on-board microSD card, or use it as a standard USB 2.0 camera. The camera quickly reacts to lighting changes in any life science, clinical or material applications. With video output via HDMI connector, the on-camera buttons allow easy access to feature settings. Specifications HDMI C-mount camera. Frame speed 60 fps. Live resolution 1920x1080. Still resolution 3264x1836. Video record: 720P 12.5fps. Output: HDMI, USB 2.0, microSD. 1/3" CMOS chip (use .3x C-mount adapter). Button (1) controls: Exposure, White balance, Gamma, Gain,. Sharpness, Saturation, Contra. Button (2) controls: Cross line, Image Compare, Image Freeze. OS support: Windows XP and later. Software: IS Capture full parameter control. Model HD1000T and 32" LCD Complete set Meji Techno, Japan</p>	Rs.539,000/- each
2.	M/S ScienTec Karachi	<p>Trinocular Microscope with digital camera Model: B-193, Make: Optika, Italy, Key features: Head: TRINOCULAR 360 □ rotating 30 □ inclined with adjustable interpupillary distance and dioptric compensation Objectives: 4x10x40x100x, Stage: Double Layer, 125x115mm with 70x30mm, X-Y moving range Illuminator: X-LED₂ system with adjustable intensity. Camera: 8MP digital camera with optical adapter & Measuring software, 2.4" LCD display.</p>	Rs.458,060/- each
3.	M/S Roghay Sons, Karachi	<p>Trinocular Microscope with Camera Model H-600 with camera, Supplied with (1.Trinocular Head. 2.Eyepiece WF 10X. 3.PLAN ACHROMATIC LENS 4X. 4.PLAN ACHROMATIC LENS 10X. 5.PLAN ACHROMATIC LENS 40X. 6.PLAN ACHROMATIC LENS 100X. 7.Microscopy Camera) Mfr. HundWetzler, Germany.</p>	Rs.412,000/- each.

14	Refrigerator 18cft. Specification: Wide body. Temperature control. Detached door gasket for easy cleanup and change. VC. Semi-automatic ice maker. Wide voltage fluctuation resistance. Handle and lock integration Dawlance, Weaves or exact equivalent with higher specification.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Refrigerator 18cft. Laboratory Refrigerator Model: HLR125 5103125-1-50 Temperature Range 2°C to 10°C. Interior Dimensions (w x h x d) 24.75" x 58.25" x 30.25" . 629mm x 1480mm x 769mm Exterior Dimensions (w x h x d) 29.5" x 78.75" x 35.5" . 750mm x 2001mm x 902mm. Overall Exterior Dimensions (w x h x d) 29.5" x 78.75" x 38.5" . 750mm x 2001mm x 978mm. Includes door handle, electrical panel, and evaporation tray Interior Volume 25.2 cu ft / 714 liters. Door Dual-pane glass. Interior Configuration 4 adjustable full-size shelves: 22" x 29" . (559mm x 737mm). Plug / Cord Detail 8-10 ft (2439-3048mm). Compressor . 33 HP, air-cooled. Refrigeration R-134A non-CFC Electrical 230V 50Hz 4.2 FLA Net Weight 481 lbs / 219 kg. Clearance Requirements Minimum of 8" (204mm) above and 3" (77mm) . behind refrigerator for ventilation.. Allow 1.5" (39mm) width for Access Control. Rel.i™ warranty: 5 years compressor, 2 years parts. • Temperature controller with alarm/monitor. LED digital display. - Programmable operating temperature range. - Single temperature probe. - Programmable high and low temperature alarms with visual and audible indicators. • Air-cooled, forced-air refrigeration system for uniform temperature and quick recovery. • Reduced humidity levels limit condensation on boxes and other containers. • Adjustable LED spot lighting with on/off switch. • Bacteria-resistant powder coated interior, exterior and door handle. • Innovative Sure-Seal door system with magnetic closure Made by USA.	Rs.1,450,000/- each
2.	M/S Burraq Business Corporation, Hyderabad	Dawlance Model 91996	Rs.151,794/- each
		Waves Model 2180	Rs.95,000/- each
3.	M/S Habib & Sons, Hyderabad.	Model 91996 Mono, Dawlance/ Waves/ Orient, As per tender specification.	Rs.90,000/-

15	Visicooler 4°C refrigerator upright temperature controlled. upright temperature: display 500 liter, carevell or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Carevell	Rs.148,000/- each
2.	M/S Talha Enterprises, Karachi	Carevell	Rs.155,000/- each

16	Micro wave oven: Interior volume approx. 30 lit, Adjustable output stages, Digital display for time of day or count-down, 30-min. timer with acoustic signal, Removable glass rotary plate (Ø approx. 245 mm), Electrical supply 220-230 V, 50 Hz, Dawlance, Orient, LG, PEL, or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Homage 34 litre.	Rs.21,500/- each
2.	M/S Habib & Sons, Hyderabad.	Model 115CH2 Dawlance/ Orient. As per tender specification.	Rs.28,000/- each

17	Incubator. Bench top Horizontal, Capacity: 50-55 liters, Temp. Range: Ambient +5°C to 70°C, Accuracy: ± 0.2°C, Controller: Digital, Display: LCD, Material: Stainless steel, Shelves: 2 Teflon coated, adjustable position, Viewing Window: glass door safety devices, Overtime, over current protector, sensor error detector. Application: Micro organism culture, USA, UK, Germany, or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Oven Forced Convection type Horizontal Flow, With Digital Fuzzy Control , Model: WOF-50, WITEG, GERMANY. <u>Technical Specification:</u> Air Flow Type: Forced Convection type, below FAN, Capacity: 50 lit. Temp. Range: Ambient +5 °C to 250 °C. Temp. Accuracy: ±0.3 °C at 100°C. Temp. Uniformity: ±1°C at 100°C. Temp. Sensor: PT1100 PT100. Heating power /Consumption: 900 W. Heating-up Time: 15 min. to 100oC, 25 min to 150oC. Recovery time (door 30Sec): 3min to 100oC, 25min to 150oc Timer & Alarm: 99hr 59min (with delay/continuous run), error status timer end. Display: Digital LCD display with back light function. Controller: Digital fuzzy controller with jog-shuttle switch (turn + push). Shelves: 2ea, including stainless steel wire shelves. Load per rack: 32 kg (16kg x 2 shelves). Ventilation: Ventilation hole (id. Ø40mm) with stainless steel cap. Safety circuit: Over temp. and over current protector, sensor error detector. Material Internal: Stainless steel (# 304). Material External: Powder coated steel. Material Insulation: Glass wool. Dimension internal (mm): 370 x 340 x 420. Others: Storage function (Temp. Timer). Locking mode (Jog-Shuttle input disabled). Power Consumption: 900 W. Power Supply: 220 volt, 50/60 Hz.	Rs.222,300/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Incubator Memmert Precision, Adaptive, multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display. Temperature range 10°C above ambient up to +80°C. Resolution of display for set point values 0.1°C. Double doors (interior glass, exterior stainless steel) . Adjustment of pre-heated fresh air admixture . by air flap control in 10% steps, digital timer adjustable from 1 minute to 99 days, 23 hours. adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1. Double Over Temperature Protection. Interior & Housing made of Stainless Steel. Set point WAIT function - the process time does not start until the set temperature is reached. Programme Stored in Case of Power Failure. Operated on 220volts, IN Series. Capacity 53 Lit, interior dimension: 400 x400x330mm with Two stainless steel trays, Model IN-55, Memmert, Made in Germany.	Rs.348,000/- each

3.	M/S Talha Enterprises, Karachi	Cat # 51028130 Model: IGS60, General Purpose Microbiological Incubators . Convection technology Gravity convection. Temperature range °C ambient +5 °C to 75 °C. Spatial temperature deviation at 37 °C± 0.6 °C. Temperature deviation over time at 37 °C ± 0.2 °C. Footprint m ² / sqft 0.3 / 3.2. Chamber volume L / cuft 75 / 2.6. Dimensions chamber, mm / in (WxHxD) 354 x 508 x 414 / 13.9 x 20.0 x 16.3. exterior*, mm / in (WxHx D) 530 x 720 x 565 / 20.9 x 28.3 x 22.2. Number of shelves supplied / max 2 / 13. Max. shelf load kg / lb 25 / 55. Rated voltage / frequency V / Hz 230 / 50. Rated power / max. current W/A 300 / 1.3. Weight kg /lb 40 / 88 Made by Germany 12 Month Warranty	Rs.495,000/-each
4.	M/S ScienTec Karachi	Forced Convection Laboratory Incubator Microprocessor PID Controlled Dual Display Digital Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	Rs.220,000/-each
5.	M/S World Wide Scientific Karachi	CAT# CLN53. INCUBATOR, MODEL NO: CLN 53 TECHNICALS SPECIFICATOINS: Air Convection: Natural (CLN). Chamber Capacity: 56 L, Door Type: Glass and Solid. Temperature Range: 5° above ambient temperature ... +100°. Controller: Microprocessor with external LCD Graphic display. Interior: Acid-proof stainless steel according to DIN 1.4301. Housing: Stainless steel. Overall dim (WxHxD): 595x700x600 mm. Internal dim (WxHxD): 395x395x360 mm. Nominal Power (W): 400. Temperature Fluctuation at +37°C: ±0.1. Temperature Variation at +37°C:±0.3, Temperature Resolution: every 0.1. Shelves Fitted: 2. Voltage: 230 V M/s POLEKO-AAPARTURA-POLAND	Rs.325,000/-each
6.	M/S Roghay Sons, Karachi	Laboratory Incubator, Model RI 53, Volume 53 Liter, Mfr. Binder-World GMBH, Germany	Rs.350,000/-each

18	pH meter microbiology lab. Use. Desktop ph meter with ph and temp. Electrode, Range pH 0.00 to 14.00 pH (full scale), Temperature 0 to 60 °C or 32 to 140 °F, Resolution pH 0.01, Accuracy Temperature 0.1 °C or 0.1 °F, Combination waterproof pH tester / thermometer, Dual Level Display Shows pH & Temperature, Temperature in °C and °F, Percent Remaining Battery Indicator, Replaceable pH Electrode, Hanna, fisher, CarlRoth, Acculab, or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Precision pH/ORP/Ion/°C/°F Meter Model: Bante930 BANTE Instruments Co., Ltd. USA. Bante 930 is high accuracy meter used for measuring pH, Oxidation-Reduction Potential (ORP) and ion concentration. <u>Meter Included:</u> pH & ORP Electrode, pH Buffers, Temperature Probe, Electrode holder Arm, 9V Power Adapters. <u>Specifications:-</u> pH Range: -2.000~16.000pH, pH Accuracy: ±0.005pH. ORP Range: 0 to ±1999.9mV. ORP Accuracy: ±0.2mV, Ion Concentration Range: 0~19999ppm, Ion Concentration Accuracy: ±0.5% F.S (Monovalent), ±1% F.S (Divalent). Temperature Range: 0.0 to 100.0°C, 32 to 212°F. Temperature Accuracy : ±0.3°C, ±0.5°F pH Calibration Points: 2 points, NIST (pH4.00/6.86/9.18) or USA (pH4.01/7.00/10.01) Ion Calibration Points: 2 to 5 points, (10 ⁻² /10 ⁻³ /10 ⁻⁴ /10 ⁻⁵ /10 ⁻⁶ mol/L). Temperature Compensation: 0 to 100°C, Manual or Automatic. Built-in Ion Modes: Na, Ag, K, NH ₃ , CL, F, Ca, No ³ , Pb, I, Cu, Br, CN. Memory & output: 99 Data sets with Date/Time stamping USB. Power Requirements: DC9V, using AC adapters, 220VAC/50Hz. Dimensions: 210 (L) x 188 (W) x 60 (H) mm	Rs.204,750/-each

2.	M/S AL-Beruni Scientific Store, Hyderabad	pH Meter Digital Bench Model Microprocessor Controlled with parallel Temperature indication, PH Range -2.0 to 20.0 ±0.1pH, PH Resolution 0.005pH, MV Range ±1200.0mV, Accuracy mV ±- 0.3mv, Automatic Temperature Compensation, Temperature Range -5 to +105.0°C, Temperature accuracy ±0.1°C with two/three point Calibration System, Battery operated as well as operated with 220 Volts Complete with following accessories:- a)Black Electrode stand with base. b)Plastic Beaker 50 ml. c)3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e)PH Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany.	Rs.215,000/- each
3	M/S ScienTec Karachi	pH Meter Bench Top , Model: Eutech pH 700 Make: EU-Tech Instruments.	Rs.118,500/- each
4	M/S World Wide Scientific Karachi	CAT# HI 2211. BASIC PH/ORP BENCHTOP METER Benchtop pH/ORP and °C meter. FEATURES: Simple to operate Automatic Temperature Compensation. Automatic calibration Calibration expiration reminder. ORP range BASIC PH BENCHTOP METER: Range (pH): -2.00 to 16.00 pH. Range (mV): ±399.9 mV, ±2000 mV. Range (Temperature): -20 to 120.0°C, Resolution (pH): 0.01 pH. Resolution (mV): 0.1 mV; 1 mV, Resolution (Temperature): 0.1 °C. Accuracy (pH): ±0.01 pH, Accuracy (mV): ±0.2 mV. Accuracy (Temperature): ±0.4 °C pH Calibration: Automatic, 1 or 2 point with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01). Temperature Compensation: Automatic manual from -9.9 to 120 °C pH Electrode: Single junction, BNC connector, 1 m cable (included), Power Supply: 12 VDC adapter (included) M/s HANNA INSTRUMENTS-EUROPE.	Rs.150,000/- each

19	Electric Fan wall mounting iron body. 16", Pull cord system, wall bracket Fan, Millat or exact equivalent with higher specification.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Electric Fan Wall mounting iron body 16" Royal & 18" Millat	Rs.7,000/- each
2.	M/S Habib & Sons, Hyderabad.	Royal 18" /Millat 16", As per tender specification.	Rs.4,800/- each
3.	M/S Burraq Business Corporation Hyderabad.	Millat 16	Rs.6,500/- each

20	UV light wall mounting. 30-40 watt, 220-230V, Intensity 15u w/ cm2, wall mounting, with replaceable tubes & starters Philips or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	UV Light wall mounting 30-40 watt, 220-230V China	Rs.6,950/- each
2	M/S Habib & Sons, Hyderabad.	Phillips. As per tender specification.	Rs.8,200/- each

21	Solar energy panel system (solar panel 1500watts, Charge controller 63Ampere, Inverter 1267watts , Battery 1293Ah) with installation.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Solar Energy Panel system Solar panel 1500 watts charge controller 63Ampere inverter 1267 watts battery 1293AH with installation	Rs.1,445,000/- each
2.	M/S Habib & Sons, Hyderabad.	Specification of Solar Energy Panel system 1500 watts for Dry battery , Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Dry battery (AGM type):1400 ampere, Solar panel warranty:25years Battery:01 year, System warranty:01 year with free service, Existing system load back-up:6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system is made in china.	Rs.1,330,000/- each
		Specification of Solar Energy Panel system 1500 watts for Gel battery . Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Gel battery (power safe /Narada):1400 ampere, Solar panel warranty:25 years, Battery:01 year, System warranty:01 year with free service, Existing system load back-up: 6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system made in china.	Rs.1,330,000/- each

22	Stabilizer1000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 1000volts servo motor copper wire with timer Stabmatic	Rs.11,000/- each
2.	M/S Habib & Sons, Hyderabad.	Model:SF1000VA, warranty: one year, STABIMATIC UK.	7,200/- each
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 1000volts Servo motor copper wire with timer. Stabmatic	8,500/- each

23	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 3000volts servo motor copper wire with timer Stabmatic	Rs.33,000/- each
2.	M/S Habib & Sons, Hyderabad.	Model GL 3000 VA, Warranty one year, STABIMATIC UK.	19,500/- each
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic	Rs.19,000/- each

24	Stabilizer 5000 volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 5000 volts servo motor copper wire with timer Stabmatic	Rs.46,500/- each
2.	M/S Habib & Sons, Hyderabad.	Model: GLD 5000VA, Warranty: one year, STABIMATIC UK.	Rs.32,000/- 3ach.
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 5000volts Servo motor copper wire with timer. Stabmatic	Rs.21,500/-

25	Tabletop Refrigerated centrifuge, Eppendorf, Sigma, Thermo, or equivalent. Temp. Variable from -20 to +40 °C in 1 °C-increments, Max. speed (in microlitre rotor) 15 000 min ⁻¹ , adjustable to steps of 10, Min. speed 500 min ⁻¹ , Operation time 1 to 99 min, continuous run, impulse key, Temperature range 20 to +40 °C, Rotors and accessories: 24 x 1.5/2.0 ml, 8 x 50 ml, 8 MT- plates and 4 x 50 ml, Power supply 220-240 V, 50/60 Hz, Automatic rotor recognition, Optional display of min ⁻¹ or x g upon entry of rotor radius, Simple rotor change, Window in lid Metal housing, Security: emergency unlocking device, motor overheating protections, unbalance switch-off, Operation manual Eppendorf, Sigma, Thermo, or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Tabletop Refrigerated Centrifuge Model: 5500, KUBOTA, JAPAN Specifications: - Maximum Speed: 15,000rpm. Maximum RCF: 21,040xg. Maximum Capacity: 1,020mL. Control system: Micro-processor control (Brushless motor) Speed, RCF, Time, g-sec, Acceleration & Deceleration, Temperature, 5 channel memories. Alarm display: Lid open, Imbalance, Over speed, Abnormally high temperature Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock and speed sensor, temperature sensor Acceleration / Deceleration: Three-level selectors; Rapid, Slow and Super Slow. Speed setting: From 200 to 15,000rpm, 10rpm increments. Speed indication: Digital display, From 0 to 15,500rpm, 10rpm increments. RCF setting: From 10 to 20,630xg, 10xg increments (adjustable to actual rotation radius). RCF indication: Digital display, From 0 to 22,030xg, 10xg increments (adjustable to actual rotation radius) Integrator setting and indication: Digital display, From 1.00 to 9.99x10 ⁹ g-sec. Timer setting and indication: Digital display, with Hold and Memory Flashing from 1 sec to 100 sec, in 1 sec increment setting / indication from 100 sec to 990 sec, in 10 sec increments setting / 1 sec increment indication from 1 min to 100 min, in 1 min increment setting / indication from 100 min to 990 min, in 10 min increments setting / in 1 min increment indication Temperature setting and indication (chamber): Digital display, 1°C increments setting and indication from -20°C to 40°C with Pre-cooling Refrigerant: R134a. Power requirements: Single phase AC110V±10%, 15A. Single phase AC115V±10%, 15A. Single phase AC220V±10%, 10A. Single phase AC230V±10%, 10A. Rated voltage and Rated current: 110V 9.1A, 115V 8.7A, 220V 4.6A, 230V 4.4A. Power consumption and Heat output: 0.78kW 2.8MJ/h, Dimensions: 70(W) x 65(D) x 36(H). Certificates of Conformity: IEC 61010-2-020 CE Marking (AC220V and 230V Version) a)Micro Rotor. Cat. No. AT-2724M Multi-angle rotor 3 types of tubes, 2mL, 0.5mL and 0.2mLPCR can be used without adaptors. b) Fixed Angle Rotor Cat. No. RA-410M3 8 x 50/15mL Conical tube This rotor is not a tool-less rotor. c)Plate Rotor Cat. No. PT-21M PT-21M can do ethanol precipitation at 3,100xg d) Swinging Bucket Rotor Cat. No. ST-410M 12 x 15mL Conical tube.	Rs.2,983,500/- each.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Centrifuge Machine Refrigerated 230 V 50 Hz, speed range of 16000 rpm, Pre-selection of running time from 10 sec to 99h 59min or continuous, RCF 24321 xg, Temperature control range -20 to +40°C, Operated on 220 Volts, Model Z366K, Hermle Made in Germany.</p> <p>Special Features: • Simple one handed operation. • Easy to program with gloves on. • Foil Keyboard. Permanent indication of Preset and Actual Values. Selection of speed in both rpm and g-force, with increments of 10. 10 acceleration and deceleration rates, possibility of unbraked deceleration. Pre-selection of running time from 10 sec to 99h 59min or continues. Quick-key for short runs. Specifications: Maintenance-free induction drive. Microprocessor with large LCD display. Motor driven lid lock. Automatic rotor identification system with over speed protection upon rotor insertion. Active imbalance-identification and -cut off (rotor-specific). A large variety of rotors and accessoires. Audible signal at the end of each run with several melody options. Noise level under 63 dBA (depend on rotor) . Manufactured according to international safety regulations, i.e. IEC 61010 Complete without Rotor operated on 220 Volts, Model Z366K, Hermle Made in Germany.</p>	Rs.1,787,000/- each
		<u>ROTOR</u>	
		1-No. Angle Rotor capacity 10 x 50ml conical speed 9500rpm Cat No. 221.52V02 Hermle Made in Germany.	Rs.367,000/- each
		1-No. Angle Rotor capacity 24 x 1.5/2.0ml speed 16000rpm Cat No. 220.87V09 Hermle Made in Germany.	Rs.128,000/- each
		1-No. Swing Out Rotor capacity 2 x 3 MTP speed 4500rpm Cat No. 220.16V03 Hermle Made in Germany.	Rs.297,000/- each
		1-No. Angle Rotor capacity 6 x 50 ml speed 13000rpm Cat No. 221.22V02 Hermle Made in Germany.	Rs.297,000/- each
		Total set	Rs.2,876,000
3.	M/S Talha Enterprises, Karachi	<p>75007224 Centrifuge Refrigerated Model SL8 230V Temperature Range -10°C to 40°C Pre-Cooling Function Yes, with direct button Refrigeration System CFC free Control System Microprocessor. Drive System Direct,brushless induction drive. Rotor Locking System Auto-Lock rotor exchange Imbalance Detection System SMARTSpin Programs 3 direct program buttons, plus 96 additional programs accessible via folder, all with alphanumeric program naming Pulse (Short) Run Yes. Acceleration/ Deceleration Rates 2 (standard and soft) Centrifugation Chamber Brushed stainless steel Max Timer Range 9h, 59 min + continuous. Sound Level <56 dBA (with all rotor); <52 dBA (with MicroClick 24 rotor). Other Features • Certified1 ClickSeal biocontainment lids. Multilingual selection: English, Dutch, French, German, Italian, Russian and Spanish Max Power Consumption 750W</p> <p>Dimensions: Height (lid open) 70 cm (27.5 in) Height (lid closed) 32 cm (12.6 in) Width 46 cm (18.1 in) Depth 67 cm (26.4 in) Weight 71 kg (156 lb) Standards & Certifications Standards IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1 Certifications UL Listed / CE marked / IVD compliant3 / Certified1 biocontainment Swing Bucket Rotors Max Capacity 4 x 145 mL (with TX-150 rotor) Max Speed 4,500 rpm (with TX-150 rotor) Min Speed 300 rpm (with TX-150 rotor) Max RCF 3,260 x g (with TX-150 rotor) Fixed Angle Rotors Max Capacity 6 x 50mL (with HIGHConic III rotor) Max Speed 17,850 rpm (with MicroClick 24 rotor) Min Speed 300 rpm (with MicroClick 24 rotor) Max RCF 30,279 x g (with MicroClick 24 rotor) 75005715 Microclick 24x2 Rotor, 45°, Rmax 85 mm 01 971.00 Rotor Capacity (Places x Volume, ml) 24 x 1.5/2 Max Tube Dim (OxL, mm) 11 x 45 Max Speed RPM: 16,000, Max RCF (x g): 24,328. 75005706 MT-10 Swinging Bucket Rotor, 90°, Rmax 139 mm</p>	Rs.2,755,000/- each

		01 1,035.00. Rotor Capacity (Places x Volume, ml) 4 Standard or 2 Deep well. Max Tube Dim (OxL, mm) n/a. Max Speed RPM: 4,400 Max RCF (x g): 2,576. 75005701 TX-150 Swinging Bucket Rotor , 90°, Rmax 144 mm 01 792.00. Rotor Capacity (Places x Volume, ml) 4x145. Max Tube Dim (OxL, mm) 50x100. Max Speed RPM 4,500. Max RCF (x g) 3,260. 75005703 50ml Conical Buckets (unsealed no adapter needed) set/4 01 set 699.00, Rotor Capacity (Places x Volume, ml) 8x50, Max Tube Dim (OxL, mm) 29.5x120, 75005736 50ml Conical or Skirted Tube 01 set 238.00, Rotor Capacity (Places x Volume, ml) 4x50, Max Tube Dim (OxL, mm), 29.5x120, Made by Germany, 12 month warranty	
4.	M/S World Wide Scientific Karachi	<p>CAT# MPW-352R REFRIGERATED HIGH SPEED CENTRIFUGE</p> <p>The MPW-352R model is a refrigerated, desktop laboratory centrifuge with Temperature range: -20°C ÷ +40°C. It find application in medical, biochemical, veterinary, industrial as well as other laboratories. The construction of the centrifuge is based on the broad experience of the MPW Med instruments company and its many years of cooperation with laboratories and medical institutions. TECHNICAL SPECIFICATIONS: Power supply: 230V, 60Hz Maximum capacity: 4x250 ml(1 L). Minimum speed: 100 min⁻¹ Maximum speed: 18000 min⁻¹ Maximum RCF: 30065xg Time range: 0 ÷ 99 hrs., 99 min, 59 sec; infinite, 1 sec interval Temperature range: -20°C ÷ +40°C. Safety: imbalance warning, lid locking during motor run, emergency lid lock release, motor thermal protection. ROTORS: 24X1.5/2 ml, 180003 RPM, 30,065 RCF 8x50 ml, 5,500 RPM, 4,227 RCF 2x3 MTP (Standard), 4,300 RPM. 2,397 RCF. FEATURES: With cooling, Start when preselected time is reached, Start when preselected temperature is reached, Initial cooling without/with centrifuging, cooling after centrifuging, precise temperature stabilization. Maintenance-free induction motor Modern software system. Large graphic LCD. 99 user programs 10 acceleration/ deceleration curves. Programming of multi-section acceleration/ deceleration curves. RPM/RCF adjustment. Centrifugal radius adjustment for samples (with automatic RCF correction). Effective centrifuging time calculation. Centrifuging time adjustment. Continuous operation mode HOLD. "SHORT" time operation mode. Changing parameters during centrifuging. Rotor identification. Automatic lid opening. Motorized lid lock. Centrifuging parameters recording - PC computer (USB). Menu language setting. Selected menu functions blocking, Password protection. Broad range of rotors and additional equipment, Memory of the last 10 working cycles. Manual adjustment of density of samples>1,2g/cm³ (with automatic maximum speed correction) Safety: Unbalance warning. Lid locking during rotor run. Emergency lid lock release. Motor thermal protection. M/s MPW-POLAND-Made in Europe</p>	Rs.1,848,000/- each
5.	M/S Roghay Sons, Karachi	<p>Table Top Refrigerated Centrifuge. Model Z326 K. Technical data max. speed: 18000 rpm. max RCF:23545xg. max. volume:4 x 100 ml. Speed range:200 - 18000 rpm. Running Time:59 min 50 sec / 10 sec. increments 99 h 59 min / 1 min increments. Dimensions (WXHxD):40cm x 36 cm x 70 cm. Weigth:60 kg. Power Input: 660 W. Mfr. Hermle-Labortechnik, GmbH, Germany.</p> <p>Additional Accessories.</p> <p>a) Micro rotor. Cat No. 220.87 V09, Capacity24 x 1,5 / 2,0 ml, Speed 15000rpm.</p> <p>b) High speed Rotor Cat No.221.22 V02, Capacity 6 x 50 ml, Speed 12000rpm.</p> <p>c).High Capacity Rotor Cat No.220.97 V04 Capacity 6 x 50ml Speed 6000rpm.</p> <p>d) Microtitre Plate Rotor Cat No. 221.16 V03, Capacity 2 x 3 Microtitreplates, Speed 4500rpm</p> <p>Total:</p>	<p>Rs.1,460,000/- each</p> <p>Rs.179,999 each</p> <p>Rs.449,999/- each</p> <p>Rs.149,999/- each</p> <p>Rs.349,000 each</p> <p>Rs.2,588,997/- each set</p>

26	<p>Real Time PCR, Thermal Cycling System : BioRad, Eppendorf, MJ research, Stratagene or equivalent. 96-well block, Optical System CCD camera with halogen lamp excitation; OR LED, five-excitation and five-emission filters: Calibrated Dyes at Installation FAMTM/SYBR® Green, VIC®/JOETM, NEDTM /TAMRATM /Cy3®, ROXTM /Texas Red®, and Cy5®, Passive Reference Dyes ROX dye or any calibrated dye. Use of a passive reference dye is optional. Reaction Volumes 5-30µL 20-100µL, Sample Format Fast 96-well plates, optimized for 10 µl reactions, Peak Block Heating Rate 5.5°C 2.5°C, Temperature Range 4°C - 100°C 4°C - 100°C, Temperature Accuracy +/- 0.25°C of set point/display temperature, measured at 3 minutes after clock start, Temperature Uniformity +/- 0.50°C, 30 seconds after clock start, Software Specifications, Applications Comparative Ct, Standard Curve, Relative Standard, Curve, Allelic Discrimination, Plus/Minus, Dye Discrimination Multicomponenting algorithm, Multiplate Data Comparison Compare an unlimited number plates of gene expression assays .With original Company literature from principal company clearly verifying all specifications and user list and computer system with required software compatible with window 7 or 8. Warranty : One year from the date of installation and training Applied Biosystems, BioRad, Eppendorf, MJ research, Stratagene or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks																		
1.	M/S World Wide Scientific Karachi	<p>CAT# TCR0096. PIKOREAL REAL-TIME PCR SYSTEM(96-WELL) FEATURES: PikoReal® Real Time System is light, quite and smallest footprint. Compatible with standard multichannel pipettes, reagent dispensers and automated liquid handling systems. Extremely low energy consumption, durable design and suitable field application. Precise temperature control. Five optical channels facilitate multiplexing. Stand alone or PC control. Reduced plastic and reagent consumption. TECHNICAL SPECIFICATIONS: THERMAL BLOCKS. Block Formats: 96 Wells. Sample Volume: 5 - 20µl Consumables: 96 Wells Piko PCR Plates. Max Heating Rate:>5°C / Sec. Max Cooling Rate: 4.5°C / Sec. Temperature Range: 4-99.9°C. Temperature Accuracy: ±0.2°C. Temperature Uniformity: ±0.3°C at 95°C. HEATED LID. Temperature Range: 30 - 110 °C. Control: Automatic Temperature and Pressure Setting. OPTICS: Excitation:5LEDs. Excitation Range: 475 – 640 nm. Detection: CCD. Detection Range: 520 – 740 nm. DETECTION CHANNELS</p> <table border="0"> <tr> <td>Excitation(nm)</td> <td>Emission(nm)</td> <td>Pre-Calibrated Dyes</td> </tr> <tr> <td>475-500</td> <td>520-550</td> <td>FAM, SYBR Green</td> </tr> <tr> <td>515-535</td> <td>557-590</td> <td>HEX, JOE, Yakima Yellow</td> </tr> <tr> <td>570-590</td> <td>615-650</td> <td>ROX, Texas Red</td> </tr> <tr> <td>600-640</td> <td>666-740</td> <td>CY 5</td> </tr> <tr> <td>475-500</td> <td>520-590</td> <td>SYBR Green for HRM, Single Plex FAM, SYBR Green</td> </tr> </table> <p>Multiplex: 475 – 640 nm, HRM: Yes, Dynamic Range: 10 order of magnitude. Scan time for 4 Multiplexing Channels: <10 sec SOFTWARE. Analysis Modes: Absolute quantification, Relative Quantification, Melt Curve Analysis, Allelic Discrimination. SYSTEM. Operating Systems: Windows XP, Windows 7, Communication: Ethernet, Up to 10 instruments can be operated from single PC. Power Usage: 200W Maximum. Dimensions (W x D x H): 300 x 230 x 310 mm. One year warranty and original company literature and computer system with required software M/s THERMO SCIENTIFIC</p>	Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes	475-500	520-550	FAM, SYBR Green	515-535	557-590	HEX, JOE, Yakima Yellow	570-590	615-650	ROX, Texas Red	600-640	666-740	CY 5	475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green	Rs.4,490,000/- each
Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes																			
475-500	520-550	FAM, SYBR Green																			
515-535	557-590	HEX, JOE, Yakima Yellow																			
570-590	615-650	ROX, Texas Red																			
600-640	666-740	CY 5																			
475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green																			
2	M/S Roghay Sons, Karachi	<p>Real Time PCR Thermal Cycler, Rotor-Gene Q 5plex Platform, Supplied with 1.Real Time PCR 5 channels(Green, Yellow, Orange, Red, Crimson). 2.Computer. 3.Software. Model Qaigen, Switzerland , Cat # 9001570, Instrument Rotor-Gene Q 5plex platform, Description: Rotor-Gene Q 5plex platform, Real-time-PCR cycler with 5 channel (green, hellow, orange, red, crimson), laptop computer, software, accessories: Includes 1-year warranty on parts and labor, installation and training included. Warranty of the system: Warranty period will be 1-years with part and Labour.</p>	Rs.6,399,999/- each																		

27	2KVA online UPS with Two hour back-up Branded. uninterrupted power supply capacity 2000VA/1400W, transfer time from invert to bypass zero in built batteries 8x12V 7Ah, Stabimatic (ONL-2000B) or exact equivalent. branded & imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Habib & Sons, Hyderabad.	Model ONL-3000, Warranty one year, STABIMATIC UK, Capacity 3000VA, Transfer time from inver to bypass zero. built in batteries 8 x 12v 7 Ah, Long back-up 2 hours.	Rs.105,000/- each
2.	M/S Burraq Business Corporation Hyderabad.	2KVA online UPS with Two hour back-up, branded & imported.	Rs.99,500/- each

28	Ultra low upright freezer -86°C, Sanyo, Revco, Thermo or equivalent. Adjustable temperature range from -10°C~ -86°C with an increment of 1°C, Interior Volume 18-20cu.ft, Microprocessor temperature control, Digital temperature display, Malfunction alarm includes audible and flashing alarms for high temperature, low temperature, incorrect voltage setting, sensor failure ,condenser efficiency defect, high ambient temperature, and power failure, Adjustable high and low temperature alarm set points, Multiple shelves for storage of various sizes for samples, Safety lock to prevent unauthorized access, Sanyo, Revco, Thermo or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Digital Ultra Low Temperature Freezer Upright Type Simplified Freezing System Model: WUF-700, WITEG, GERMANY. <u>Applications & Features</u> CE & RoHs Certified. PL (Product Liability) Insurance. Simplified Hi-Efficiency Freezing System can freeze down to -86°C:realize robust and long life time. Automatic vacuum realizing system – easy to re open the door. Ease of use and high performance touch screen TFT LCD Controller. Robust and flexible design of door handle. Easy monitoring and control – Eye level controller. CFC-free refrigerants are used. Use of block condenser removes filter and causes of related failure. Filter-free mechanism lowers heat generated by the compressor. Easy maintenance and improved performance. High quality insulation panel and inner doors ensure defrosting around outer surface. Built in standard warning and alarm functions. RS232 communication link and a remote control software is supported. <u>Technical Specification:</u> Capacity: 714 Lit., Freezing System: Simplified Hi-efficiency freezing system (SHFS™) Temp. Range: -86°C ~ -65°C at room Temperature of 30°C and humidity of 70% Temp. Sensor: PT100. Compressor: Hermetic Type. Condenser Type: Block Controller, No Pin, Filter free Mechanism. Refrigerant: HFC (CFC Free Refrigerant System) . Controller & display: Full Touch screen TFT LCD Controller. Shelves: Included 3 Stainless steel shelves. Max. Qty of Racks: 24pcs of 20 (4 x 5) Placed Rack (RFU50). Material Internal: Stainless Steel (#304). Material External: Powder coating steel plate. Material Inner Door: Powder coating steel plate (#304). Chamber Dimension (w x d x h) Internal (mm): 880 x 620 x 1310 Power Consumption: 1.6 kW Power Supply: 220 Volt, 50/60 Hz	Rs.1,977,300/- each.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Ultra Low Temperature Freezer (Upright Type)</p> <p>The Panasonic MDF Freezers are Ultra Slim, space saving and has improved energy consumption. The Panasonic MDFSeries has a microprocessor control system, which is secure, easy to use and comprehensive. Set point, alarm parameters and self-diagnostic functions are accessed through a tamper-resistant keypad protocol. Control inputs are managed with convenient push-ad buttons on a unitized, sealed control overlay. Features: Panasonic V.I.P. technology achieves up to 30% more storage capacity. A newly developed refrigeration system and the structure offer a quiet experimental environment. Two independent and insulated inner doors with gaskets prevent Leakage. Safe operation with Status Alert continuous condition monitoring(notifies of potential problems before they happen). The inner doors are removable for cleaning and defrosting. Power failure alarm lamp and buzzer. Audible and visual alarm on High and low temperature. Technical Specifications: Temperature range: -50°C to -86°C. Interior Dimensions:(WxDxH) 490 x 600 x 1140 mm. Effective capacity: 333 Liters / 11.8cu.ft. Shelves:3, Stainless steel. Compressor: Rotary type (high stage side), Hermetic type (low stage side) Alarm system: High/low Temperature, Power failure,Filter check, Self diagnostics, Door check, Remote alarm contact Accessories: 1 set of keys, 1 scrapper, Complete Model MDF-U33V, Panasonic (New Name of Sanyo) Made in Japan.</p>	Rs.2,300,000/- each
3.	M/S Talha Enterprises, Karachi	<p>TSE Ultra-Low Temperature Upright Freezers Model: TSE400V, Temperature Range: -50°C to -86°C. Capacity cu. ft. (liters) 23.0 (651), 2 in. Box Qty. 400, Electrical 230V / 50Hz, Amps / Breaker (Plug) 12/15 (European), Maximum Shelf Weight lbs. (kg) 125 (57), Interior Dimensions H x W x D in. (cm) 51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3) Exterior Dimensions H x W x D in. (cm) 77.9 x 40.8 x 38.9 (197.9 x 103.6 x 94.0) Shipping Weight lbs. (kg) 879 (399). Microprocessor control. Power Management System. Single-hand operation. Easy-to-remove, washable filter. Secure inner doors. Rugged construction for everyday use. Simplified installation. Optional CO2 or LN2 back-up. Optional chart recorder Made by Germany</p>	Rs.3,875,000/- each
4	M/S World Wide Scientific Karachi	<p>CAT# AV050M, ULTRA LOW TEMPERATURE UPRIGHT FREEZERS - 86°C. Kaltis® ultra low temperature (ULT), -86°C laboratory freezers are exceptionally energy efficient, quiet running and reliable, that combine the highest reliability and superior performance with cost-effective operation and innovative features. These ultra-low temperature freezers safeguard your precious samples with advanced technology platforms, maximum temperature recovery, microprocessor controls and high-quality construction. TECHNICALS SPECIFICATIONS: Capacity (L): 499 Lit (17.6 Cu. Ft). Voltage (V): 230 Frequency Hz: 50-60. Amps: 7.5, Interior: 60x64.5x129 Exterior: 85x91x196, M/s KALTIS-USA.</p>	Rs.1,960,000/- each.

29	<p>TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Qiagen, Ideka Rika japan, or equivalent. Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Runtime of 1 second to 1 hours 59 minutes, Display and control panel for speed and time, 220-240 V, 50/60 Hz, Accessories, Stainless steel beads –5 mm (200nos), Stainless steel Baeds – 7 mm (200nos), Beads acid- washed , 150–600µm (20grms) Single Bead dispenser, 5mm, Capacity to hold ~100 beads single bead dispenser, 7 mm capacity to hold ~50 bread suitable 2 ml micro centrifuges tubes (1000nos) TissueLyser Adapter Set 2 x 24 (2 sets of adapter plates and 2 racks for use with 2 ml micro centrifuge tubes on the TissueLyser II), TissueLyser Adapter Set 2 x 96 (2 sets of adapter plates for use with Collection Microtubes (racked) on the TissueLyser II), Qiagen, Ideka Rika Japan, or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Roghay Sons, Karachi	Tissue Lyser, Model Tissue Lyser LT Supplied with 1.Tissue LyserLT. 2.Tissue Lyser adapter, 12 tube. 3.Stainless Steel Bead, 5mm. 4.Sample tube RB 2ml(1000). 5.Tissue Lyser Single Bead Dispenser. Mfr. Qaigen, Switzerland.	Rs.4,649,000/- each
2.	M/S Talha Enterprises, Karachi	TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (1000) oscillations/ minutes). Rika Japan	Rs.4,999,000/- each

30	<p>Microplate Shaker, Microplate orbital shaker speed range:200-1500 rpm (digital) Speed increment:10rpm plate holding: 4 plates, Operating temp:4-70°C, Fisher, Corning or exact equivalent imported.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Microplate Incubator /Shaker, Cat. No. 130000-2 BOEKEL SCIENTIFIC, USA. 2 year warranty Accommodates Std. 96, 384, and 536 Plates <u>Specifications:</u> - Product Dimensions W x D x H (in/cm): 25.4cm (10") x 25.4cm (10") x 10.2cm (4")H. Orbit Diameter: Approximately 1mm. Mechanism: Rotating counterweight. Temperature Range: Ambient to 40°C. Temperature Resolution: 0.1°C. Temperature Uniformity: Better than ± 0.4°C with cover. Warm Up Time: Typically 15 minutes. Timer Range: 1 second to 99 min. 59sec. Timer Resolution: 1 second. Mixer Speed: 575 to 1500 RPM (575, 625, 675, 750, 875, 1000, 1200, 1500 RPM). Pulse Operation: 1500 RPM for 3 seconds. Electrical: 230VAC (50/60 Hz) 19W	Rs.438,750/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Microplate Platform Shaker Vibrating Vibration motion continuously adjustable up to 1350 rpm, vibration orbit 1.5 mm, with built in process timer up to 120 minutes, Model Titramax 100, Heidelph Made in Germany.	Rs.390,000/- each

3.	M/S ScienTec Karachi	Microplate Shaker , Model: 6781-4, Make: Corning Key features: The Corning LSE Digital Microplate Shaker features digital control of shaking speed and run time. A single control knob is used to set parameters, and values are shown on a large 3-digit display. A sturdy base encloses the motor for quiet, vibration-free operation. The included stainless steel platform accommodates up to 4 microplates (standard or deep well) and the shaker is safe for use in temperature controlled environments from 4 to 65°C. Large capacity - process up to 4 microplates 3 mm orbit for resuspending, homogenizing or vortexing Large digital display with single-knob control Suitable for cold room or incubator use	Rs.229,030/- each
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31	Minipore Ultrapure Water purifier system, Applications: Up to 70L per day. Pyrogens (Endotoxins), EU/mL: < 0.001 Water Delivery, L/min: At E-POD: up to 2.0, At Q-POD: 0.05–2.0 Product Water Resistivity, MΩ·cm (@ 25 °C): Pure Water: > 5, Ultrapure Water: 18.2 , Feed Water Nature: Tap water, Water used for PCR or HPLC, Milli Q, Aurora Instruments, RSD or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Water Purification System, Type 1 water Model: Ultramatic: GRUF WasserLab, Spain GR UF model: Ultrafiltration cartridge is included, producing Ultrapure water (pyrogen and nuclease – free water) suitable for molecular biology, nanotechnology and genomics applications Specification Output: Pure water Type I according ASTM D1193. Input: Type II water. Production: 1,1 l / min, Flow rate: 1.1 l/min, Conductivity: 0.055µS/cm, Resistivity: 18.2 MΩ·cm TOC: < 10 ppb, Bacterial count: < 1cfu/ml. Particulates: (> 0.2µm/ml) < 1 part/ml. Endotoxines: < 0.001 EU/ml. Feed water: Type II water (Wasserlab Ecomatic/Autwomatic Model). Osmotized water, Deionized water, Distilled water Dimensions (Centimeters): ULTRAMATIC equipment: 52 x 25 x 48 cm (Height/Width/Depth). Weight: 12 Kg	Rs.924,300/- each
		Ultramatic GRUF Consumables	
		a) Resin Type I Pack (Ultrapure) Cat. No. PCK405.	Rs.49,140/- each
		b) Foto oxidation Lamp Replacement Cat. No. 80280.	Rs.21,060/- each
		c) Final Filter 0,2 Micron Cat. No. 20640,	Rs.23,400/- each
		d) UF Cartridge Cat. No. 20770.	Rs.81,315/- each
		Total	Rs.1,099,215/- each set.

2	M/S World Wide Scientific Karachi	<p>CAT# B30-BIO, WATER PURIFICATION SYSTEM Adrona water purification systems provide ultrapure and pure water for laboratory needs. Quality of water meets requirements for Grade I water of ISO 3696 standard and corresponding ASTM and CLSI standards. FEATURES: Premium quality water Reliable operation. Low running costs. Easy installation and maintenance. Convenient user interface. Color graphic display Easily readable indication of water quality. TOC monitor Volumetric dispense. Status indication with intuitive color pattern Validation possibility. B30 systems produce purified water directly from tap water 25 L storage tank with integrated Grade II dispense pump APPLICATIONS: Reagent Preparation Ion Chromatography, Plasma Mass-spectrometry (ICP-MS), Flame AAS, Plasma spectrometry (ICP-OES), High performance Liquid Chromatography (HPLC) Gas chromatography , Total organic carbon (TOC) measurements Flow cytometry, Cell culture, Molecular Biology APPLICATIONS: Water resistivity: 18.2 MΩxcm Water conductivity: 0.055 μS/cm Total organic carbon (TOC) level: <2 ppb. RNase: <0.01 ng/mL, DNase: <4 pg/μL. Bacteria: <1 CFU/mL. Endotoxin: <0.001 EU/mL. Particles >0.22 μm: <1/mL. Nominal flow, pure water (to storage tank): 10 L/h. Nominal dispense flow, ultrapure water: 2 L/min. Nominal dispense flow, pure water: 4 L/min. Deionization module life: 1 m³. Dimension (WxDxH), cm: 35x54x60. Water Storage tank: 25 L, Feed water conductivity: <900 μS/cm, M/s ADRONA-LATVIA MADE IN EUROPE.</p>	Rs.1,085,000/- each.
3.	M/S Roghay Sons, Karachi	<p>ULTRAPURE WATER PURIFIER, Model 750-1D. The 750 Series is a configurable system designed to meet the requirements of any laboratory accommodating water supply from a potable source. The comprehensive nature of the 750 series ensures suitability to different Industry sectors. Both RO (reverse osmosis) and UP (uitra pure) grades of water can be produced to varying degrees of Purity dependant on theintended use of the water. TYPICAL APPLICATIONS: General Laboratory Analysis. Preparation of Stock Solutions. Washing and rinsing of Glassware. Analysis of Micro-Organisms. Cell Culture. DNA/RNA tests. FEATURES & FUNCTIONS.1.CE Certified. 2.Products produced to European standard. 3.Auto Calibration for Water Purity. 4.Hourly re-purification cycle. 5.Automatic re-purification cycle set by Purity limit. 6.Set levels for filter change warning. 7.Feed Water Tap Water. 8.Product flow rate 18L/H. 9.Suitable for Molecular Biology application, Mfr. Pg-Instrument, UK</p>	Rs.1,095,000/- each

32	<p>Digital bench top timer, Time count down from 24 hour to 1 second in one second increments. For bench use, can display countdown, stop watch or time of Day. Alkaline Battery Fisher, Carl Roth or exact equivalent imported.</p>
33	<p>UV protective Goggles, Fisher, Roth or equivalent. UV protective eye wear light weight, Unilens Style adjustable temple length, duo flex confort cushion antifog, antiscratch/ anti UV coating, meet ANSIZ87.1-2010 and CAS Z94.3 eye ware requirement, Fisher, Roth, USA, UK Germany or exact equivalent imported.</p>

No firm offered the technical specification.

34	Digital Room Thermometer, Measuring temperature range:-18-+72°C Clock, , Fisher, Roth or equivalent. Wall mounting Digital thermo hygrometer to monitor relative humidity and temperature in laboratories and offices. Digital thermometer selectable to °C or °F range: -18-+72°C. Relative humidity range: 20-100%RH, 3 digit LED sensor, 1.5V AA battery. Oakton, USA, UK or exact equivalent
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35	Deionizer, battery operated with disposable cartridges. Wall mounting, 90 liters/hour high purity water, built in water quality meter. Disposable cartridge Battery: 9V, ELGA or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Deionizer 10 L, Model: DE7001, WasserLab, Spain Specification:- Mounting Output: Pure water Type II (analytical grade) according ASTM D1193. Input: Tap water. Production: 90ltr./h. Purification process control: By microprocessor. Installation requirements: 220V AC + water supply (≤ 3 m. distance / ≥ 2 bar pressure). Measures and weight: - Deionizer 200 x 540 mm (Diam x H) / 12 kg. - Conductivity meter 175 x 80 x 130 mm (WxDxH)- Wall. Installation Requirements. - 220V AC socket. grounded. - Take water nearby (maximum 2 meters) with a minimum pressure of 2 bars and a threaded ½ "male thread gas. - Minimum inlet water pressure: 2 bars. - Maximum inlet water pressure: 8 bar.	Rs.315,900/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Deionizer single cartridge, wall mounted to deionize water with built in conductivity meter, Output 45 Lit/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts, Model DI 425 TKA Made in Germany.	Rs.188,000/- each

36	Distillatory glass 5-litre/h (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 5 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd:	4 liter Model favorite Europe.	Rs.94,000/- each
2	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710, Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. TECHNICAL SPECIFICATIONS: Out Put: 4 L, Wattage:3000 W, Voltage: 230 V, Base Dimension: 55 x 15 cm. M/s POBEL-SPAIN.	Rs.275,000/- each

37	<p>Pipetting aid, auto pipette filler (5-10ml), battery operated. Color, white, Battery type: Lithium ion Dispensing speed:8, Filter type 0.45 micron standard. Universal chargeable stand, wall mounting holder Nose piece holder: Autoclavable Silicone Rubber for use with graduated and volumetric glass and plastic serological pipettes. Thermo, Carl Roth, GMB or exact equivalent imported.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Electronic Macropipette, Cat. No. 936.10E, SOCOREX, SWITZERLAND. ACURA electro 936, electronic macropipette, 4.8V, 0.5 - 10 ml, initial package with 2 battery packs, pipette charging stand, 100-240V power supply, Europe style plug, Qualitips sampling Specifications: - Volume Range: 0.5-10mL, Division: 0.05 mL, Tip Style: 10ml</p>	Rs.136,950/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Pipetter/Macroman, Unique Comfort & Controlled Pipetting, Stable, safe & easy to pick up. - Integrated bench stand adjustable for left and right handed users.- Keep your MACROMAN handy and ready for use, without risk of contamination. Soft & fatigue free pipetting. - Soft-touch material for maximum finger comfort. - Large dosing button to decrease pushing efforts. Optimal comfort. Integrated, adjustable stand for easy handling when pipette attached, Large & soft-touch material dosing button Light weight Quiet operation & vibration free, Ergonomic-shape handle with grip. Performance, For all plastic & glass pipettes from 1 to 100mL, Continuously adjustable speed: 25mL in 4sec, Environmentally friendly NiMH battery for 8 hours operation, Precise & smooth dosing button control: drop-by-drop, gravity mode , and motorized speed. Safety & easy maintenance. All liquid contact parts are autoclavable, Easy-to-replace filter. Replaceable batteries, Operated on 220Volts, Complete, Cat No. F110751, Macroman, Gilson, Made in France.</p>	Rs.124,000/- each
3.	M/S ScienTec Karachi	<p>Electronic Pipetting Control Device Pipetting Aid/ Controller for 1 To 100ML Pipettes (Cat # 4091), Make: Corning.</p>	Rs.94,770/- each

38	<p>Laminar Flow cabinet Horizontal 5'. Table top Horizontal Laminar Air flow workstation. 5ft (1.5m) External dimension: (1645x797x1105) WxDxH (mm), Internal dimension: (1490x625x575) WxDxH (mm). One dimensional air flow, constant velocity of 90fpm. Hepex Zero Leak Airflow system, Florescent lighting, protective grill, glass disposable prefilter Germicidal UV light, Vinyl curtain- front closure for UV light, stainless steel 18guage body and workzone, side walls; UV absorbing tempered glass 5mm 3years warranty, NuAire, Esco, USA, UK, Germany or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Horizontal Laminar Airflow Cabinet Model: NU-201-530, NUAIRE INC., USA. AireGard ES (Energy Saver) NU-201 Table Top Horizontal Airflow Workstation The AireGard ES 201 Horizontal Laminar Airflow Workstation provides a HEPA filtered clean work area for laboratory appliances, microscopes, pipetting, compounding sterile drug preparations or IV admixture, or any applications requiring a clean air environment. Specifications - Nominal Size: 5 ft. (1.5 m) Exterior Dimensions (W x D x H) [mm]: 62 x 32 x 52 (1575 x 813 x 1321), Interior Dimensions (W x D x H) [mm]: 58 ¾ x 20 x 28 ¾ (1492 x 508 x 721).	Rs.1,626,300/- each.
2.	M/S Talha Enterprises, Karachi	Horizontal Laminar Airflow Cabinet Model: NU-301-530E, HEPEX™ Zero-Leak Airflow System Clear Top / Side Acrylic Panels Textured Powder Coat, Urethane Finish, Smooth White Formica™ Work Surface. Front Maintenance. Fluorescent Light Protective Fiber Grill, Fiberglass Disposable Prefilter Full Instrument Panel. Minihelic Gauge. 115 VAC, 60 Hz, single phase. 8ft., 3-wire Grounded Flurface with PCV Core Ultraviolet Light 230V Vinyl Curtain and Interlockexible Power 301530M434 S/S Work S, 301M354 Feet: Leg Levelers Included, 301M181 Seismic Suds Included, NU-9700-05 Wood Crating Made by Taiwan	Rs.2,385,000/- each
3	M/S ScienTec Karachi	AirStream Horizontal Laminar Flow Clean Bench 5ft. with support stand, Model AHC-5D1/AHC-6D1 5ft./6ft. Make: ESCO, Singapore, Key Features: Sentinel™ Microprocessor Control System. Soft touch controls for blower, light, outlet and UV are easy to clean. ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are superior to HEPA filters. ULPA filters last as long as Conventional HEPA filters and have similar replacement costs. The backward curved wheel with external rotor motor delivers class-leading energy efficiency for lower operating costs. An additional disposable pre-filter traps large particles in the inflow air prior to reaching the main filter, protecting against damage and prolonging filter life. All Esco products are manufactured for the most demanding laboratory applications. All components are designed for maximum chemical resistance and enhanced durability for a long service life. The main body of the clean bench is constructed of industrial-grade electrogalvanized steel. One piece formed stainless steel work surface with a curved front edge is designed for maximum operator comfort. Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start. Esco Laminar Flow Clean Benches have been tested for cross-contamination and product protection using microbiological test methods specified in EN12469. Each clean bench is individually factory tested for safety and performance in accordance with international standards. All electrical components are UL listed or UL recognized, ensuring superior electrical safety for the operator. Esco ISOCIDE antimicrobial coating on all painted surfaces.	Rs.894,650/- each
4.	M/S World Wide Scientific Karachi	CAT# BBS-H1800, HORIZONTAL LAMINAR AIRFLOW CABINET TECHNICAL SPECIFICATIONS: Display: LCD Display. HEPA: HEPA filter with efficiency of 99.997% at 0.3 micro. Dust: < 3.5 Granule / L for >0.5 µm Noise Level: <60db. Airflow Velocity: 0.3-0.5 m/s Vibration Level: <5 µm. UV Lamp: 30 W*1. Light: 28W*1. Front Window: Motorized. Pre-Filter: Polyester fiber, washable. Work Surface Height: 720 mm. Work Material: Stainless steel External Size: 1800mm*825mm*2010mm (W*D*H). Internal Size: 1700mm*500mm*570mm (W*D*H). Standard Accessory: Fluorescent lamp, UV lamp 2, Base Stand, Gas Tap Water Tap and Socket 2. Power Supply: 220V M/s BIOBASE	Rs.940,000/- each.

	Furniture and Fixture.
39	Cupboard/Drawer deodar frame 4'.9"x2'.3", lasani board 4 drawer high quality lock & handle

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Lasani wood, Best quality, Durable No moist, dry, Deemak Free wood, Rohira tree, smooth.	Rs.41,000/- each
2.	M/S Habib & Sons, Hyderabad.	Cupboard / Drawer Deodar Frame 4'.9" x 2'.3" lasani board, Cupboard made in Deodar frame with sliding Door , size: L = 4'.9" x H= 2'.3" Made in waterproof lasani lamination Malaysia. It is free of termites (Dimak) Colors are available on customer's demand. Drawer size :width 16" x Height 6" x depth 18".Made in waterproof lasani lamination having 18 SWG steel channel with best quality handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	Rs.180,000/- per unit

40	Cupboard/Drawer 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality lock and handle.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Low weight, high strength excellent corrosion resistance, good thermal superior, malleability, different colors super fine quality best quality lock and handle.	Rs.39,000/- each
2.	M/S Habib & Sons, Hyderabad.	Cupboard size: L = 4'.9" x H= 2'.3" made in lucky Aluminum frame. boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm fiber glass will be fix in windows. Colors are available on customer's demand. Drawer box size: L= 17"x H= 20" .Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(03) drawers in each of cabinet. It is free of termites (Dimak), Colors are available on customer's demand	Rs.285,000/- per unit
		Cupboard size: L = 4'.9" x H= 2'.3" made in lucky Aluminum frame.boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm Aluminum steep will be fix in windows. Colors are available on customer's demand. Drawer's box size: L=17" x 20"Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	Rs.285,000/- per unit.

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
Central Veterinary Diagnostic Laboratory Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department,
Government Of Sindh, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research)
Sindh, Hyderabad.

2. Cost of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First aid material, Trial Treatment Medicine and Feeding for Experimental Animals.

Of the Nineteen (19) firms, sixteen (16) firms participated in the tender:

1	M/S Scientific Technical Corporation (Pvt.) Lahore
2	M/S I.K. Enterprises, Hyderabad
3.	M/S Orison Corporation, Hyderabad
4	M/S Lab Care Karachi
5	M/S World Wide Scientific Karachi
6	M/S Shameel Enterprises, Hyderabad
7	M/S AL-Beruni Scientific Store, Hyderabad
8	M/S Talha Enterprises, Karachi
9	M/S China Medical Store, Hyderabad
10	M/S Gul Rays Enterprises, Hyderabad.
11	M/S Musaji Adam & Sons, Karachi
12	M/S Burraq Business Corporation, Hyderabad
13	M/S Choice Enterprises, Hyderabad
14	M/S S.A. Enterprises, Hyderabad
15	M/S Cyber Pakistan Business, Hyderabad
16	M/S Lucky Brothers, Hyderabad

1.	PPR competitive ELISA Ab Diagnostic reagent kit and plates for multi species 04 plates (484 samples) ID Vet or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	ID Screen® PPR Competition ELISA Model: PPRC-4P, Packing 1 kit (4 plate/384 samples) ,Manufacturer ID VET - France	Rs.411,600/-
2	M/S Cyber Pakistan Business, Hyderabad	PPR competitive ELISA Ab Diagnostic reagent kit and plates for 04 plates (384reactions) ID screen ID Vet France Cat No.PPRC,4P.	Rs.220,000/-

2.	CCPP ELISA antibody detection reagent kit with ELISA plates for 100 serum of caprine/ovine, AHVLA or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	CCPP ELISA antibody detecton reagent kit with ELISA plates for 100 serum of caprine/ovine Packing 1 kit(for 100 serum Manufacturer AHVLA scientific UK	Rs.411,600/-

3.	Brucella Rose Bengal stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella abortus antigen direct test Make USA Packing 5ml	Rs.7,900/-
2	M/S S.A. Enterprises, Hyderabad	Brucella RBT Antigen Model V2001, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Rs.17,640/-
3	M/S Cyber Pakistan Business, Hyderabad	Brucella Rose Bengal stained Antigen suspension, 10ml Lilli Test RBT Antigen Lillidale UK Cat No.V2001.	Rs.8,500/-

4.	Brucella mellitensis stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella mellitensis antigen direct test , Make USA, Packing 5ml.	Rs.7,900/-
2	M/S S.A. Enterprises, Hyderabad	Brucella mellitensis tained antigen Model V-2011, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Rs.132,300/-
3	M/S Cyber Pakistan Business, Hyderabad	Brucella mellitensis positive serum, freeze dried 2.5ml Lillidale Diagnostic UK Cat. V2011.	Rs.93,000/-

5.	Brucella AB ELISA kit with plates (Bovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No.10-2700-10, Format Strips Plates:10, Tests:960, Samples:920 Made by Sweden	Rs.285,000/- each kit
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Rs.249,900/-
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Rs.185,000/-

6.	Brucella AB ELISA kit with plates (Ovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA o/c Article No. 10-8200-02, Format: Strips, Plates:2, Tests:192, Samples:184, Made by Sweden, Svanova.	Rs.85,000/- each kit
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Rs.249,900/-
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Rs.195,000/-

7.	Brucella milk ring test antigen vial 100ml (MRI),USA, France, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Brucella abortus Milk Ring Test (MRT) antigen Model: RAA0048, Packing Vial 100ml, Manufacturer AHVLA Scientific - UK	Rs.514,500/-
2	M/S Cyber Pakistan Business, Hyderabad	Brucella abortus Milk Ring test (MRT) antigen AHVLA Scientific, Uk formerly VLA UK 100ml, Cat No.RAA0048.	Rs.310,000/-

8.	Brucella milk ELISA reagent kit with plates. Brucellosis milk indirect ELISA, Diagnostic reagents and plates for B. abortus in Bovine milk 4 plates (384 reaction) Idexx USA, UK, France or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No. 10-2700-10, Format:Strips, Plates:10, Tests: 960, Samples: 920, Savanova Made by Sweden	Rs.285,000/- each kit
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Milk Indirect, Model: BRUMILK-4P, Packing 1 kit (4 plate/384 samples), Manufacturer ID VET - France	Rs.249,900/-
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Milk Indirect, 4 plates, 384 reaction ID Vet France Cat No.BRUMILK-4P .	Rs.120,000/-

9.	Tuberculosis test antigen(Tuberculin Avian & Mammalian) 5ml vial imported, PPD (PPD A&B) Tuberculin intra dermal test for Bovine tuberculosis 500 reaction UK, USA or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Cyber Pakistan Business, Hyderabad	In vitro cell activation pack for 5000 reactions containing avian and bovine tuberculin PPD and mitogen (pokeweed), Mitogen is used as a positive activation control ID Vet France Cat No.PPDPACK, One Pack.	Rs.270,000/-

10.	Tuberculosis antibody test kit antibody test. BTB Ab ELISA diagnostic reagent kit with Microplate, 480 Wells/kit, UK or exact equivalent.
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No firm offered the technical specification.

11.	CMT (California Mastitis Test) kit with reagents litre bottle, ready to use liquid, Bovi-Vet Denmark or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	CMT California Mastitis Test kit with reagents litre bottle, ready to use liquid, Minimum order for 24 bottles , Packing 1 litter Bottle, Imported	Rs.11,760/-
2	M/S Cyber Pakistan Business, Hyderabad	CMT (california Mastitis Test) kit with reagents litre bottle, Cat No.497101 CosAgri UK.	Rs.5,800/-

12.	Penside Rabies Rapid diagnostic device for detection of Rabies antigen in ruminant saliva /tissue fluid of brain 10test/kit , UK or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	Rapid Rabies Ag Test kit 20 tests/kit, Model: VR-1005 Packing Kit (10 tests/kit) Manufacturer Lillidale Diagnostics-UK	Rs.117,600/-

13.	Zeihl-Neelson Stain Kit. Containing one 250ml bottle each of TB Carbofuschin, TB Decolourizer solution and TB Methylene Blue BD Difco, Merck or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Z.N Stain Kit. Bottle Make Wellcosol, Packing 3x500ml	Rs.6,080/-

14.	Sheep pox/ Goat Pox antigen ELISA diagnostic reagent kit with plates.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Lab Care Karachi	sheep pox/Goat pox antigen EUSA Research kit with plates 96 Test Cat # BYS126616B, TRANS UAE,	Rs.199,000/-

15.	Camel pox antigen ELISA diagnostic reagent kit with plates.
16.	Buffaloe/Cow Pox

No firm offered the technical specification.

17.	CATT/ T.evansi Kit with accessories, CATT/Tev T250: (Institute of Tropical Medicine, Belgium) or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Cyber Pakistan Business, Hyderabad	CATT/T evansi kit with accessories, CATT/TEV T250 (Institute of Tropical Medicine Belgium.	Rs.105,000/-

18.	Microscope glass slide with frosted end pack of 72Nos. Germany or exact equivalent imported
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 72, Citotest Germany	Rs.285/- box
2.	M/S AL-Beruni Scientific Store, Hyderabad	China Pkt of 72Nos.	Rs.240/- box
3.	M/S S.A. Enterprises, Hyderabad	Microscope Glass slide with frosted end pack , Packing 1 box (72 slides) Germany	Rs.382/- box

19.	Disposable hand gloves. Pre examination disposable gloves, textured embossed medium size 100 Nos./packing weighing Approx 155g/pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	China per box 100 Nos..	Rs.742.50
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.66/- per Pkt.
3	M/S Talha Enterprises, Karachi	100 Nos. Packing weighing Approx 155g/pack (China)	Rs.85/- each box
4	M/S Burraq Business Corporation, Hyderabad	Imported China as per specification.	Rs.95/-
5	M/S S.A. Enterprises, Hyderabad	Disposable hand gloves. Medium size Packing 1 Box (100nos), China	Rs.5,439/- box

20.	Latex surgical gloves disposable. Pre examination powder, natural high quality latex, surgical, milky white hand gloves medium size 12pair gloves/pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	Pak./ China per 6 pair.	Rs.448/- (Rs.30/- per pair)
2	M/S Talha Enterprises, Karachi	Latex surgical gloves disposable pre examination powder, natural high quality latex, surgical, milky white hand gloves China.	Rs.55/- each pair
3	M/S Burraq Business Corporation, Hyd	Imported Malaysia as per specification 12 pair/pack	Rs.1,259/- (Rs.105/- pair)
4	M/S S.A. Enterprises, Hyderabad	Latex surgical gloves disposable. medium size, Packing 1 Box (100nos) China	Rs.1,029/- box (20.58 per pair)

21.	Autoclaveable bijous 5ml with aluminum screw cap white glass Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Autoclaveable bijous 15 ml with aluminum screw cap Glassco	Rs.75/- each
2	M/S Musaji Adam & Sons, Karachi	Bijou Bottles 7ml Autoclaveable with Cap Make UK, each	Rs.195/- each
4	M/S S.A. Enterprises, Hyderabad	Autoclaveable bijous 5ml with aluminium screw cap white Packing each China	Rs.353/- bottle

22.	Autoclaveable glass bottles wide mouth, screw cap 50-80ml for bacteriology/ Parasitology/Pathology specimen.
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No firm offered the technical specification.

23.	Ice Pack, cold pack for refrigerated shipment and storage at 0oC, 150micro nylon pouch, multi use PCM pack 4.3"x5.7" 200g each.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Coldpack (05Litter), Airliner Technology, Coldpack France. <u>Specifications:</u> The messenger bag kit contains fowling. Foldable textile bag Qty:01No, Coldpack Airliner. Qty:02No. Manual air pump, Qty:01No, Protective bag, Qty:01No. Jaw packs. Qty: 02No. It has an internal capacity (empty) of 05L.	Rs.20,475/- each
2	M/S Burraq Business Corporation, Hyd	Imported as per specification, durable, light weight, easy	Rs.1,900/-

24.	Gel Refrigerant pack, 240x150mm, 500g each.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Gel Refrigerant Pack 240x 50mm 500g each	Rs.878/- each
2	M/S Burraq Business Corporation, Hyderabad	Imported as per specification fine, durable, weight less.	Rs.1,100/-

25.	Sample bag enclosable grove 6"x9" Each of 100 Nos. /Pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 6"x9" Each of 100Nos. / Pack With Hand Air pump.	7,898/- each
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak.	Rs.1,170/- Per Kg (100Nos.)
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent chemical free, fine plastic, water resistant 100Nos./pack	Rs.500/- Pack of 100 Nos.

26.	Sample bag enclosable grove 10"x12" Each of 100 Nos. /Pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 10"x12" Each of 100Nos. / Pack With Hand Air pump	Rs.12,636/- each
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak.	Rs.1,170/- Per Kg (80Nos.)
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent, chemical free, fine plastic.	Rs.700/- Pack of 100 Nos.

27.	Disposable Apron. Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, color Blue & green 20 micron thick pack of 100 Nos.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.1,200/- per 100pcs.
2	M/S Talha Enterprises, Karachi	Disposable Apron Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, China.	Rs.4,000/- each box

28.	Face Mask surgical disposable, without glass fibers, high filtration capacity Pak of 50Pcs, Imported or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.134/- per Pkt.
2	M/S Talha Enterprises, Karachi	Face Mask surgical disposable, without glass fibers, high filtration capacity pak of 50pcs China	Rs.165/- each box

29.	Indelible Marker, Laboratory permanent marker, for all surfaces starpe fine pointer, Xylen, Ethnol and water resistant, cryogenic markers.
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Two firms participated **all firms not qualified to required specification.**

30.	Anticoagulant tubes with EDTA 4ml 100 pieces/box.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 3ml.	Rs.9.50/- each
2	M/S Talha Enterprises, Karachi	Anticogulant Tube with EDTA 3ml 100pieces China	Rs.1,200/- each box
3	M/S S.A. Enterprises, Hyderabad	Anticoagulant tubes with EDTA 4ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Rs.2,646/- box

31.	Blood/ serum collection vaccum tubes 5ml 100 pieces/box.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 4.5ml	Rs.11/- each
2	M/S Talha Enterprises, Karachi	Blood /Serum Collection Plain Tube 3ml 100Nos China	Rs.1,300/- each box
3	M/S S.A. Enterprises, Hyderabad	Blood collection vaccum tubes 5ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Rs.2,352/- box

32.	Serum vial 2ml with safe lock and graduation scale Eppendorf or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 500pec, AHN Germany	Rs.1,900/-
2	M/S AL-Beruni Scientific Store, Hyderabad	China,	Rs.840/- per Pkt.
3.	M/S S.A. Enterprises, Hyderabad	Serum vial 2ml with safe lock Packing 1 Bag/Box (500nos/Bag) Manufacturer Jet Biofil, Canada	Rs.2,352/- box

33.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) large size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Rs.18,000/-
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) large size Thailand	Rs.985/- each pair

34.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) medium size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Rs.18,000/-
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) medium size Thailand	Rs.985/- each pair

35.	Dangri (Khaki/ Blue over all). Dangri (cotton/zean cloth) standard size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Pak	Rs.2,300/- each
2	M/S Talha Enterprises, Karachi	Dangri (Khaki / Blue over all) dangri cotton standard size Local,	Rs.1,995/- each

36.	Methyl Alcohol, Methanol EP Lab. grade. Acetone free 2.5 liter, Merck, Scharlau or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Merck/ BDH	Rs.1,600/-
2	M/S World Wide Scientific Karachi	CAT# Merck Methyl Alcohol (Methanol), Lab Grade M/s Merck Qty 2.5L	Rs.10,000/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Sigma	Rs.2,100/- per 2.5liter
4	M/S Talha Enterprises, Karachi	Methyl Alcohol/Methanol EP 1 2.5Lit Merck	Rs.3,300/-
5	M/S Musaji Adam & Sons, Karachi	Methanol, analytical grade, Make Scharlau, Spain, Packing 2.5Lit	Rs.950/-

37.	Parafilm (Laboratory use) 14”x125ft (roll).
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# Parafilm® Parafilm 4in. x125ft M/s ParaFilm Brand Qty 01roll	Rs.9,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	USA 4"x125ft.	Rs.4,370/- P.Roll.
3	M/S Musaji Adam & Sons, Karachi	Parafilm 4 X 125 Fit Make USA Packing Each Roll	Rs.5,740/-

38.	Sterilized swab with transport medium for bacteriological samples, collection and transportation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Pack of 100, Germany	Rs.1,350/-
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.11/- each
3	M/S Talha Enterprises, Karachi	Sterilized Swab 100pieces China	Rs.1,250/- box
4	M/S Musaji Adam & Sons, Karachi	Sterilized swab with transport medium for bacteriological samples Make MWB,UK Packing 125Pcs	Rs.8,775/-

39.	Thermometer for Laboratory use. Thermometer digital refrigerator/Freezer max/min reading -50°C + 70°C accuracy ± 1°Cwith probe. Fisher, Carl Roth, Thomas or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Thermometer for lab use digital(-50 to 300c) 4Nos, HTC2	Rs.14,500/-

40.	Glycerol Absolute lab. grade 2½liter bottle.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 2.5 liter, BDH/ Sigma	Rs.1,900/-
2	M/S World Wide Scientific Karachi	RDH/BDH Glycerol absolute lab grade Qty 2.5L	Rs.8,500/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Fisher.	Rs.21,800/- per 2.5 liter
4	M/S Talha Enterprises, Karachi	Glycerol Absolute Lab Grade 2.5Lit Merck	Rs.3,300/- bottle
5	M/S Musaji Adam & Sons, Karachi	Glycerol, 99%, extra pure Make Scharlau, Spain Packing 2.5Lit	Rs.7,700/-

41. Phosphate buffered saline tabs Oxide, Sigma or exact equivalent imported.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.11,900/- Per 100Tab Pkt.
2	M/S Talha Enterprises, Karachi	Phosphate Bufferd Saline Tablets 100 Tablets Bio-World-USA	Rs.12,500/- each box
3	M/S Musaji Adam & Sons, Karachi	PHOSPHATE BUFFERED SALINE TABLETS DUL. A, Make Oxoid,UK, Packing 100Tab	Rs.7,425/-

42. Sodium chloride Lab. grade P. kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 1 Kg Bottle, Sigma Aldrich	Rs.1,900/-
2	M/S AL-Beruni Scientific Store, Hyd	Merck/ Fisher.	Rs.3,400/- per kg
3	M/S Talha Enterprises, Karachi	Sodium Chloride Lab Grade kg RDH	Rs.1,200/- per Kg.
4	M/S Musaji Adam & Sons, Karachi	Sodium Chloride Make Daejung, Korea Packing 1Kg.	Rs.1,485/-

43. Blood collection needle 21G. Blood collection Needles single use double sided stainless steel canulas with a silicone coating. Sterlized, non-pyrogenic 21Gx1½" thin wall 100nedles/box, BD or exact equivalent.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Packing Box(100 needle/Box) Manufacturer CDRICH China	Rs.2,646/- box

44. Tube holder for single use blood collection needle, standard size, 50 Nos./Box, BD or exact equivalent.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Tube holder for single use blood collection needle, standard size 50 nos box China	Rs.7,500/-box
2	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Rs.4,410/- box

45. Disposable syringe 10ml pack of 100. Disposable syringes. 10cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China Box of 100Nos.	Rs.1210/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.1,270/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syring 10ml 100Nos Stare Laboratory China.	Rs.1,325/- Pack
4	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Rs.1,764/- pack of 100

46.	Disposable syringes. 5cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Rs.726/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.770/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syringe 5cc 100Nos Star Laboratory China	Rs.850/- Per Pkt
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Rs.1,029/- pack of 100

47.	Disposable syringes. 1cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Rs.693/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.740/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syringe 1cc 100Nos Star Laboratory China	Rs.795/- Per Pkt.
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Rs.970/-

48.	Cotton roll absorbent cotton 400gm P. Roll Lab. Grade fine quality, National or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	400gram National.	Rs.306/- per roll
2	M/S AL-Beruni Scientific Store, Hyderabad	National 500g.	Rs.395 per roll.
3	M/S Talha Enterprises, Karachi	Cotton Roll 400 gm National	Rs.375/- each

49.	PE Disposable shoe cover, Blue, water resistant medium size HDPE, CPE material, 1.2-4g/pcs double elastic.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.260/- per Kg
2	M/S Talha Enterprises, Karachi	PE Disposable shoe cover China	Rs.795/- per Pkt.

50.	Universal Bottle Aluminium screw cap 28ml white glass autoclaveable.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 28ml	Rs.77/- each
2	M/S Talha Enterprises, Karachi	Universal Bottle Aluminium Screw cap 28 ml made by Germany Packing 100Nos.	Rs.11,500/- Per Pkt.
3	M/S Musaji Adam & Sons, Karachi	Universal Glass Bottle 30ml With Aluminium Screw Capped Leak Proof White Autoclaveable, Make UK Packing Each.	Rs.230/- each

51.	Deep Freezer 250liters (9cfu), white colour, chest freezer, Dawlance, Waves or exact equivalent.
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No firm offered the technical specification.

52.	Deep Freezer -10°C to -40°C upright, 260 liter, white/ off white with drawers/ chamber, Haier or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Model: DW-FL90/270 Manufacturer Zhongke Meiling Cryogenics Ltd	Rs.882,000/- each
2.	M/S Shameel Enterprises, Hyderabad	Deep Freezer -10°C to -40°C upright, 260 liter Spain	Rs.912,000/- each

53.	Serum transportation box 100 places thermo cool material with covering lid.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Serum Transportation Box Thermo cool material with covering lid With CVDL Mark with inner cardboard division.	Rs.193,050/- 100 box
		Serum Transportation Box Thermo cool material with covering lid With CVDL Mark With inner aluminum division.	Rs.339,300/- 100 box

54.	Surgical scalpel stainless steel No.4 scalpel.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Rs.720/-

55.	Surgical blade No.22.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Rs.1,215/- (Rs.101/each)
2	M/S AL-Beruni Scientific Store, Hyderabad	China. Pkt of 100 Nos.	Rs.700/- per 100 Nos. (Rs.7/each)
3	M/S Talha Enterprises, Karachi	Surgical Blade No 22 China	Rs.750/- Per Pkt. 100Nos. (Rs.7.50/each)

56.	CMT tray for milk testing. CMT Test Peddle. Four compartment blue plastic peddle with slightly doomed cup-bottom and pump dispenser bottle for reagent. Bovi-Vet Denmark or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyd	As per specification.	Rs.18,000/-
2	M/S S.A. Enterprises, Hyderabad	CMT test reagent 1000ml (2ml/ test 8ml/animal, 120 animals/bottle) Minimum order: 24 sets Packing 1pkt (12nos/pkt) Manufacturer ImmuCell CMT Starter Kit USA	Rs.11,760/- Pkt.
3	M/S Cyber Pakistan Business, Hyderabad	CMT kit Comprising 1 liter liquid segmented test paddle, 2ml pipette Cat No.497095, Coxagri UK.	Rs.4,200/-

57.	Tagging machine medium (small ruminants) with 1000 aluminum tags
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Durable long lasting, fine qualify.	Rs.58,000/-

58.	Hand held pH/EC and TDS tester 2-16pH, 0-20ms/cubic cm, range 0-10,000ppm Hanna, Thermo, Genway or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Ph Hand Held pen type meter 0-16ph Qty/Pack size 1Nos Hannah/ezydo	Rs.6,500/-
		TDS Hand Held pen type meter 0-10000pp Qty/Pack size 1 Nos. Hannah/ezydo	Rs.6,500/-

59.	First aid box. First aid box All purpose, soft sided kit contents: Bandage, injury treatment, Tropical antiseptic, Medicine, Instruments/ Misc: scissors, Tweezers, Thermometer, Safety pins, Vinyl gloves, Cotton tipped applicators (250-300pieces).
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	First Aid Box(acording to requierd spec), Qty/Pack size 6 complete loaded box, Premier	Rs.4,500/-
2	M/S Burraq Business Corporation, Hyd	High quality, material durable, easy carry, light weight, No moister germ.	Rs.49,000/-

60.	pH electrode. pH electrode. Glass combination, pH range 0-14, temp. range 0-60°C active dimension 120x12mm outer junction ceramic outer electrolyte liquid
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	BNC USA.	Rs.11,000/- each

61.	Gas Room heater, Portable, heat level 1.5-4.2kw, 3 ceramic boards Adjustable thermostat, Metal material free standing for laboratory room.
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No firm offered the technical specification.

62.	Pestle and mortar, porcelain, white, Mixing/ grinding Bowl set medium (10cm diameter)
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.240/- each

63.	Forcep stainless steel. Tissue forceps 130mm straight.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	High quality material, fine and best design. Pkt of 12 Nos.	Rs.1,800/- Pkt (Rs.150/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.195/- each

64.	Tissue forceps 130mm curved stainless steel.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	High quality material. Fine and best design to carry easy Pkt of 12 Nos.	Rs.1,900/- Pkt (Rs.158/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.195/- each

65.	Dressing scissor straight 125mm blunt point.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality. Pkt of 12 Nos.	Rs.2,500/- Pkt (Rs.208/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.170/- each

66.	Dressing scissor straight blunt/one pointed 125mm.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality. Pkt of 12 Nos.	Rs.2,700/- Pkt (Rs.225/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.170/- each

67.	Reagent Basin 60ml trough reservoir white poly propylene.
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No firm offered the technical specification.

68.	Green Nucleic acid stain for DNA staining, 5x1ml Promega, Fermentas or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K0221 Maxima SYBR Green/ROX qPCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200x25µl	Rs.39,500/-

69.	Ethidium bromide, Molecular biology grade, 1gram Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 7870.1 Ethidium bromide, Molecular Biology Grade M/s Carl Roth Germany Qty 01g	Rs.10,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 43109 Merck (Molecular biology grade)	Rs.9,700/- per 1gm
3	M/S Musaji Adam & Sons, Karachi	Ethidium bromide, for biochemical purposes (Cat # ET0108), Make Scharlau, Spain, Packing 1gm	Rs.12,825/-

70.	Agrose, Molecular biology grade, 100grams Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# R9012LE HyAgarose LE Agarose, Multi-purpose, Molecular Biology Grade M/s ACT Gene USA Qty 100g	Rs.13,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2120 Merck (Molecular biology grade)	Rs.19,000/- per 100g
3	M/S Musaji Adam & Sons, Karachi	Agarose Make USA, Packing 1Kg	Rs.78,000/-
4	M/S S.A. Enterprises, Hyderabad	Agrose, Molecular biology grade Packing 100 grams, Manufacturer Conda Lab, Spain	Rs.41,160/- 100grams

71.	Tris, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# T838 Tris Base, Molecular Biology Grade M/s Phyto Tech.USA Qty 01kg	Rs.22,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648311 Merck (Molecular biology grade)	Rs.19,700/- P Kg.
3	M/S Musaji Adam & Sons, Karachi	Tris-(hydroxymethyl)-aminomethane, molecular biology grade (Cat # TR0424), Make Scharlau, Spain Packing 500gm	Rs.18,630/-

72.	Tris Hcl, Molecularbiology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# T858 Tris HCl, Molecular Biology Grade M/s Phyto Tech. USA Qty 01kg	Rs.22,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648313 Merck (Molecular biology grade)	Rs.31,000/- p Kg
3	M/S Musaji Adam & Sons, Karachi	Tris-HCl, molecular biology grade (Cat # TR0425), Make Scharlau,Spain Pac of 1kg	Rs.38,600/-

73.	Green Master Mix (2X), High quality, 100reaction Promega, or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K1081 DreamTaq Green PCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200react	Rs.20,500/-

74.	DNA Laddar, 100bp range 100-3000, 1 vial Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	100bp PlusII DNA ladder(100-5000bp), Packing 1 vial /500ul, TRANS UAE	Rs.38,000/-
2	M/S World Wide Scientific Karachi	CAT# SM0321 GeneRuler 100bp Plus DNA Ladder,ready-to-use (100-3000bp) for 100lanes M/s Thermo Scientific (Fermentas), Qty 01vail	Rs.10,900/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck 100loading	Rs.16,000/- P.50g
4	M/S S.A. Enterprises, Hyderabad	Packing 1 Vial, Manufacturer Molequle-on, New Zealand	Rs.20,580/- vial

75.	DNTPs, High quality, 1ml Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	High Pure dNTPs(2.5mM), Qty/ Packing size 1 ml, TRANS UAE	Rs.25,000/-
		High Pure dNTPs(10mM), Qty/ Packing size 1 ml, TRANS UAE	Rs.35,000/-
2	M/S World Wide Scientific Karachi	CAT# R0241 dNTP Mix, M/s Thermo Scientific (Fermentas) Qty 01ml	Rs.10,900/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.15,000/-
4	M/S Talha Enterprises, Karachi	DNTPs,High Quality 1ML Bio-World USA	Rs.45,000/- each
5	M/S S.A. Enterprises, Hyderabad	DNTPs 10 mM dNTP Mix Packing Vial 1ml Manufacturer Molecule-on, New Zealand	Rs.23,520/- vial

76.	Nuclease free water, High quality, 1000ml Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 3255.1 Water, sterile, free from pyrogen, hypotonic M/s Carl Roth Germany Qty 01L	Rs.9,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.14,000/- P.Lit
3	M/S Musaji Adam & Sons, Karachi	Nuclease Free Water, High Quality Make Hyclone, Packing 1000ml	Rs.6,075/-

77.	Acetic Acid, Molecular biology grade, Sigma, 2.5 liter Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S World Wide Scientific Karachi	Merck Acetic Acid, Molecular Biology Grade M/s Merck Qty 2.5L	Rs.9,000/- each bottle.

78.	EDTA, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# X986.2 EDTA, Molecular Biology Grade M/s Carl Roth Germany Qty 01kg.	Rs.24,300/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 4005 Merck (Molecular biology grade) / Sigma..	Rs.11,000 P.Kg.

79.	Boric acid, Molecular biology grade, Sigma, 1Kg Merck, Scharlau or exact equivalent		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	RDH Boric Acid, Molecular Biology Grade Qty 01kg	Rs.8,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2710 Merck (Molecular biology grade).	Rs.9,000/- P.Kg.
3	M/S Musaji Adam & Sons, Karachi	Boric acid, molecular biology grade (Cat # AC0580), Make Scharlau, Spain Packing 1kg	Rs.11,480/-

80.	DNA Extraction Kit, Column base, high yeild, high purity. For Blood, Tissue, Culture media, Bacteria. 50 reaction/kit, Qiagen, Invitrogen or exact equivalent		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K0721 GeneJET™ Genomic DNA Purification Kit for Blood, Tissue, Bacteria, spin column base M/s Thermo Scientific (Fermentas) Qty 50prep	Rs.28,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.42,000/- per Kit

81.	Trizol reagent, For RNA, DNA and protein extraction, 200ml, Invitrogen or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	TR 118 TRI Reagent for RNA isolation for 200-400 applications M/s 'MRC' USA Qty 200ml	Rs.59,000/-

82.	Primer Babesia Reverse & Forward
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Babesia Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Babesia Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

83.	Primer Theileria Reverse & Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Theileria Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Theileria Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

84.	Primer P.muttocida Reverse, Forward, Universal and specific A,B,C.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer P.muttocida Forward & Reverse M/s Gene Link USA.	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer P. muttocida Reverse, Forward, universal and specific A,B,C Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

85.	Primer contagious caprine Pleunopneumonia (CCPP), Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer CCPP Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer contagious caprine Pleunopneumonia CCPP Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

86.	Primer Clostridium Perfergens (Entertoxaemia) Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Clostridium Perfergens Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Clostridium perfergens (Entertoxaemia) Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

87.	Primer camel pox Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Camel pox Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer camel pox reserve and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

88.	Paraffin Wax Scharlau, Leica or equivalent 5kg or minimum packing.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.7,700/- P.2.5 Kg.
2	M/S Musaji Adam & Sons, Karachi	Paraffin Wax, Make Scharlau, Spain Packing 1kg	Rs.3,850/-

89.	Thin wall PCR tubes 0.2 ml, Thin-wall flat cap PCR tubes 0.2ml .pre-sterilized, Ultra-thin and consistent wall thickness. White transparent Color, DNA and RNA free, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Cat # 60-0082 0.2ml flat cap PCR Tubes, DNA, RNA free, Pre sterile transparent 1000/bag M/S BioLogix USA	Rs.5,500/-
2	M/S Musaji Adam & Sons, Karachi	(PCR-02-C), Make Corning-Axygen Packing 1000Pcs.	Rs.6,080/-

90.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.2mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# PC0013 PCR Tube Rack with lid, 96-well, colored, for 0.2ml PCR Tubes, 12rack/pkt M/s GEBio USA Qty 01pkt	Rs.17,000/- (Rs.1,416.60/ each)
2	M/S Musaji Adam & Sons, Karachi	(R-96-PCR-FST)Make Corning-Axygen Packing Each	Rs.870/-

91.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.5mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	PCR Tube rack, 96 well racks with lid in different color for the storage and handling of 0.2ml, PCR tubes, Eppendorf (R-96-PCR-FST) (R-96-PCR-FST) Make Corning-Axygen, Packing Each	Rs.870/-

92.	Eppendorf tube racks, Racks with lid in different color for the storage and handling of 1.5ml eppendorf tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Ependrof tube rack 60 place for 1.5ml/0.2ml, pack of 12 racks, AHN Germany	Rs.9,500/-
2	M/S World Wide Scientific Karachi	CAT# 90- CAT# 9009 Eppendorf Tube Rack with lid in different color for 1.5ml tubes, 12rack/pack M/s Biologix USA Qty 01pkt	Rs.18,470/-

93.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0010-R-NS 10µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (TF-20-R-S) Make Corning-Axygen Packing 96 Tips	Rs.1,420/-
3	M/S S.A. Enterprises, Hyderabad	Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

94.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0100-R-NS 100µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TF-100-R-S) Make Corning-Axygen Packing 96 Tips	Rs.1,345/-
3	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

95.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 200ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0200-R-NS 200µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (TF-200-R-S), Make Corning-Axygen, Packing 96 Tips	Rs.1,345/-
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

96.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT1000-R-NS 1000µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul) (TF-1000-R-S) Make Corning-Axygen, Packing 100 Tips	Rs.1,385/-

97.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0010 1-10µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.90/each)
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (T-300-R-S), Make Corning-Axygen, Packing 96 Tips	Rs.870/- (Rs.9/each)
3	M/S S.A. Enterprises, Hyderabad	size: 10ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.80/each)

98.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TE-204-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Rs.815/- (Rs.8.48/each)
2	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.80/each)

99.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size:200ul , Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0200 1-200µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/-
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (T-200-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Rs.815/-
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box

100.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-1000 200-1000µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/-
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul)(T-1000-B-R-S) (Sterilized), Make Corning-Axygen, Packing 100 Tips	Rs.910/-
3	M/S S.A. Enterprises, Hyderabad	size: 500ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box

101.	4-way flipper rack, Plastic material, four way tube holder Holds thirty-two 0.5ml, thirty-two 1.5ml, twelve 15ml or four 50ml tubes, each on a different side, CLP, Corning, Roth, or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	4-way flipper rack, four 50ml, twelve 15ml, twenty four 1.5ml and 0.5ml, 10rack/pkt Qty 01pkt	Rs.18,000/-

102.	Carboys with Spigot, White clear or semi transparent, 8-10 lit capacity, Roth, Nalgen, Fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	carboys 10 liter with spigot semi transparent, pack of 6nos, Kartel Italy	Rs.48,500/-
2	M/S Musaji Adam & Sons, Karachi	Carboys with Spigot, White clear or semi transparent, 10 lit capacity Make Kartell, Italy, Packing Each	Rs.5,130/-

103.	Single Tube rack, Holds a single 50mL conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
104.	Single Tube rack, Holds a single 15ml conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
105.	Refrigerator rack, Lower section to be filled chilled water or Top insert try hold 50 tube of 1.5ml and 15 tubes of 15 and 50 ml. CLP, fisher or exact equivalent.

No firm offered the technical specification.

106.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 25.4x7.9mm (1x 5/16"), CLP, fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring. Pack contain six Bars total, two each of the sizes :25.4x7.9mm, Make Kartell, Italy, Packing Each	Rs.510/-

107.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 38.1x7.9mm (1 1/2x 5/16"), CLP, fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring.Pack contain six Bars total,two each of the sizes :38.1x7.9mm, Make Kartell, Italy, Packing Each	Rs.880/-

108.	Wash Bottles, White color, 500ml capacity, fisher, Roth or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Wash bottle 500ml white colour, pack of 10, poly lab UK	Rs.4,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Germany.	Rs.1,000/- each
3	M/S Musaji Adam & Sons, Karachi	Make Kartell, Italy, Packing Each	Rs.785/-

109.	Hypo chlorite Acid Lab grade, 4 liter bottle, Fischer, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	hypochlorite labgrade, bottle of 4 liter, Unichem UK	Rs.7,500/-
2	M/S Musaji Adam & Sons, Karachi	Sodium Hypochlorite 15%, Make Scharlau,Spain, Packing 1Lit.	Rs.2,970/-

110.	Moist lens wipes Quick Dry and Smear free individual sachet packing content Alcohol Denot Boots or exact equivalent.
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No firm offered the technical specification.

111.	Zanil litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Rs.1,710/- per liter
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Rs.1,750/- per liter

112.	Systemsmax 450ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Rs.1,300/- per 450ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Rs.1,340/- per 450ml bottle.

113.	Valbazen litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack, Albendazole 11.25% (Pfizer)	Rs.5,575/- each 1litre pack
2	M/S Orison Corporation, Hyderabad	1 liter Pack, Albendazole 11.25% , (Pfizer)	Rs.5,490/- each 1litre pack
3	M/S Burraq Business Corporation, Hyderabad	Imported Pfizer USA company packing 1 liter.	Rs.5,795/-

114.	Nilzan Plus litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Rs.2,080/- per liter
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Rs.2,100/- per liter

115.	Nilzan plus 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Rs.345/- 100ml per bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Rs.350/- 100ml per bottle.

116.	Ampiclox L/A 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Ampiclox Pfizer USA company packing 1 liter.	Rs.369/-

117.	Mastivex 1/m tube or equivalent Each 10gm syringe
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Three firms participated **all firms not qualified to required specification.**

118.	Trypa Medium for surra Packing 10x1g sachets.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Rs.3,500/- each sachet 1gram
2	M/S Gul Rays Enterprises, Hyderabad.	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Rs.35,800/- each 10 sachets 1gram (Rs.3,580/each)

119.	Zorox gold 500ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Rs.2,180/- each 500ml
2	M/S Orison Corporation, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Rs.2,250/- each 500ml

120.	TRIFAS suspension 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Rs.470/- 100ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Rs.500/- 100ml bottle.

121.	TRIFAS suspension 500ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt) Limited.	Rs.2,010/- 500ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt) Limited.	Rs.2,060/- 500ml bottle.

122.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 100ml. Medi-Vet Pharma	Rs.415/-
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml, Medi-Vet.	Rs.425/-

123.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 50ml. Medi vet Pharma	Rs.1,900/-
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml Medi-Vet.	Rs.2,000/-

124.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 100ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Rs.850/-
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Rs.800/-

125.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 500ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Rs.3,600/-
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Rs.3,500/-

126.	Fluka Super Drench 1000ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad.	As per specification Brand name.	Rs.3,500/-

127.	Fenid Gold drench 1000ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %	Rs.2,950/- each 1litre pack
2.	M/S Orison Corporation, Hyderabad	1 liter Pack Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Medicure Laboratories Pharmaceutical Manufacturers, karachi.	Rs.2,850/- each 1litre pack

128.	Fenid Gold drench 250ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification Brand name.	Rs.1,000/-

129.	Inj: Gentamicin 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Inj: Gencine Packing 100 ml, Gentamicin 100 mg	Rs.1,050/- each 100ml
2	M/S Orison Corporation, Hyderabad	Inj: Gencin 100 ml, Gentamicin 100 mg,	Rs.1,180/- each 100ml
3	M/S China Medical Store, Hyderabad	Gentamicin 10% Packing 100ml, UNIVET	Rs.1,400/- P100ml
		Gentamicin 20% Packing 100ml, UNIVET	Rs.2,210/- P.100ml
4	M/S Gul Rays Enterprises, Hyderabad.	Gentamicin 10% Packing 100ml, UNIVET	Rs.1,450/- P100ml
		Gentamicin 20% Packing 200ml, UNIVET	Rs.2,300/- P.100ml

130.	Inj: Tribriksen 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Tribriksen™ (Trmethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Rs.680/- per 50ml
2	M/S Gul Rays Enterprises, Hyderabad.	Tribriksen™ (Trmethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Rs.700/- per 50ml

131.	Inj. Pantamycin 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corp, Hyd	As per specification Brand name.	Rs.1,400/-

132.	Inj. Gentipra-ts 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Rs.2,150/- per 100ml.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Rs.2,200/- per 100ml.

133.	Inj. Oxytetracyclen LA 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Rs.1,180/- 100ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Rs.1,210/- 100ml vial
3	M/S Burraq Business Corporation, Hyderabad	Inj: Oxytetracycline 10% Each ml contains: Oxytetracycline HCL 100mg Packing 100ml HEBEI YUANZHENG PHARMACEUTICAL CO. LTD. CHINA.	Rs.1,890/-
4	M/S Choice Enterprises, Hyderabad	Terrasym LA-200 Inj. Composition: Each ml contains: Oxytetracycline HCl..200mg, Packing 100ml, Symans.	Rs.750/-

134.	Inj. Fluean
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Rs.276/- 10ml
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Rs.285/- 10ml

135.	Inj: TRY-BAN 3g vial
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Tryban	Rs.960/-

136.	Inj. Imezol 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Rs.9,980/- per 100ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Rs.9,980/- per 100ml vial
3	M/S Burraq Business Corporation, Hyderabad	Imezol 100ml	Rs.11,000/- per 100ml.

137.	Inj. Butalex
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Rs.4,410/- 20ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Rs.4,500/- 20ml vial
3	M/S Burraq Business Corporation, Hyderabad	Butalex	Rs.4,500/-

138.	Inj. Enrofloxacin.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Enrofloxacin 10% packing 50ml Hebei China.	Rs.1,200/-
		Inj: Enrofloxacin 10% packing 100ml Hebei China.	Rs.2,100/-

139.	Inj. Tetravaxes
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Tetravex	Rs.1,990/-

140.	Inj. Hyperalonaenro-1 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Rs.2,650/- 100ml vials.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Rs.2,850/- 100ml vials.
3	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Rs.2,100/-

141.	Inj. Ivomec 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, Merial	Rs.5,950/- 50ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, Merial	Rs.6,000/- 50ml vial.

142.	Inj. Trisulpha 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Rs.415/- each
2	M/S Lucky Brothers, Hyderabad	As per specification tender.	Rs.560/- each vial

143.	Inj. Trimethosulf100ml Germany.
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No firm offered the technical specification.

144.	Inj. Brema Mectin 50ml Germany.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Rs.1,480/- 50ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Rs.1,500/- 50ml vial.

145.	Inj: Imidocarb 50ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Imidocarb 50ml	Rs.1,500/-

146.	Inj: Imicarb 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Rs.1,480/- 50ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Rs.1,500/- 50ml vial
3	M/S Burraq Business Corporation, Hyderabad	Inj: Imicarb 50ml.	Rs.2,100/-

147.	Inj. Buprallex 20ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Buprallex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Rs.1,300/- 20ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Buprallex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Rs.1,350/- 20ml vial.
3	M/S Burraq Business Corporation, Hyderabad	Inj. Buprallex 20ml	Rs.1,480/-

148.	Inj: Dura Plex 20ml.
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No firm offered the technical specification.

149.	Antibiotic 3rd generation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Gul Rays Enterprises, Hyderabad.	Draxxin Inj: Composition: Tulathromycin..100mg/ml, Monothioglycerol ..5mg/ml, Packing 100ml, Pfizer.	Rs.17,000 50ml vial
2	M/S Burraq Business Corporation, Hyderabad	Medi-T.G.C. Inj: Composition: Each ml contains. Tylosin Tartrate B.P. Vety. 200mg, Gentamycin Base (as sulphate) B.P. 100mg, Colistin Sulphate B.P. 50mg. Packing 50ml, Medi-Vet (Pvt.) Ltd.	Rs.1,575/-

150.	Antiparasitic drugs 3rd generation
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Rs.2,610/- 500ml
2	M/S Gul Rays Enterprises, Hyderabad.	Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Rs.2,900/- 500ml
3	M/S Burraq Business Corporation, Hyderabad	Anthel Vet-M suspension, Composition each ml contains: Closantel 50mg, Mebendazole 75mg, Cobalt Sulphate 9mg. Packing 500ml, Medi-Vet. (Pvt.) Ltd.	Rs.5,500/- 500ml

151.	Anitiprotozoan 3rd generation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Imidox Inj Packing 100 ml Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Rs.7,750/- each 100ml
2	M/S Orison Corporation, Hyderabad	Imidox Inj 100 ml Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Rs.7,480/- each 100ml

152.	Wheat Straw Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.15.70 per KG
2	M/S Burraq Business Corporation, Hyderabad	Fresh, No dust, No moist.	Rs.15/-
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High fiber.	Rs.13.50
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.9/-

153.	Wheat Bran Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.46.40 per KG
2	M/S Burraq Business Corporation, Hyderabad	High fal protein, fresh.	Rs.29/-
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fibre.	Rs.31/-
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.21/-

154.	Broken Wheat Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.63.70/- per KG
2	M/S Burraq Business Corporation, Hyderabad	High foil, Fresh, Fine quality high protein,	Rs.50/-
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.40/-
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.32/-

155.	Rice Polish livestock feed category per KG
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Fine quality, high fiber, good diety, no dust, moist.	Rs.26/-
2	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.46/-
3	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.29/-

156.	Cotton Seed Cake Per kg
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.43.10 Per KG
2	M/S Burraq Business Corporation, Hyderabad	No moist, No dust, high quality sufficient diet value.	Rs.46/-
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.36/-
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.25/-

157. Mustard Cake Per Kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.210/-
2	M/S Burraq Business Corporation, Hyderabad	High quality.	Rs.200/-

158. Rocky salt.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Fine and high quality.	Rs.250/-

159. Mustard Sweet Oil Per Liter

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.218/- per KG
2	M/S Burraq Business Corporation, Hyderabad	Fresh, Fine, best quality.	Rs.200/-
3	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Rs.300/-

160. Rock Salt Per Kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.108.10 per kg
2	M/S Burraq Business Corporation, Hyderabad	Fresh, fine, best quality.	Rs.150/-

161. Sunflower meal/ cake per kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Feed grade , high dietary	Rs.190/-
2	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Rs.195/-

162. Maize per Kg/ day.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.12/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green high nutrition value sufficient.	Rs.12/-
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Rs.8.75

163. Burseem per Kg/ day.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.18/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green, dietary fiber high nutrition.	Rs.6.75
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Rs.9/-

164.	Junter per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.12/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green, high fiber.	Rs.12/-
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Rs.8/-

165.	Sorghum per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.12.40 per Kg.
2	M/S Burraq Business Corporation, Hyderabad	Best quality fresh green.	Rs.6.75
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Rs.9/-

166.	Lucerne per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.17.00 per Kg.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green sufficient dietary fiber feed grade, high nutrition.	Rs.12/-
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Rs.7.75

(Dr. Aslam Pervez Umrani)
 Director
 Veterinary Research & Diagnosis
 Central Veterinary Diagnostic Laboratory
 Sindh, Tando Jam.

(Muhammad Anwar Malik)
 Section Office (G)
 Livestock & Fisheries Department,
 Government Of Sindh, Karachi

Representative of
 District Accounts Office Hyderabad

Representative of
 Finance Department, GoS,

(Dr. Abdullah Mewati)
 Director General
 Livestock (Extension/Research)
 Sindh, Hyderabad.



**GOVERNMENT OF SINDH
LIVESTOCK & FISHERIES DEPARTMENT
VETERINARY RESEARCH & DIAGNOSIS
Central Veterinary Diagnostic Laboratory,
TANDO JAM, (SINDH) ☎ (+) 022/2765279**



COMPARATIVE STATEMENT (TECHNICAL)

**FOR PROCUREMENT
DURING THE FINANCIAL YEAR 2014-2015 OF**

- 1. Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture.**
- 2. Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine And Feeding For Experimental Animals.**

**DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS,
CVDL SINDH, TANDO JAM.**

1. PURCHASE OF HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE.

Of the **Fourteen (14)** firms, **eight (08)** firms participated in the tender,

1. M/S Scientific Technical Corporation (Pvt.) Lahore.
2. M/S Al-Beruni Scientific Store, Hyderabad
3. M/S Talha Enterprises, Karachi
4. M/S ScienTec Karachi
5. M/S Burraq Business Corporation, Hyderabad
6. M/S Habib & Sons, Karachi
7. M/S World Wide Scientific Karachi
8. M/S Roghay Sons, Karachi

Sr. #	Name of items with specification.
A	Purchase of Hardware
1.	<p>Computers and Printers with all accessories. Desktop computer Processor Intel core i7 3.06 Or higher specification Mother Board, Intel original. Or higher specification Ram 4 GB DDR-3 Or higher specification, Hard Disk 500GB or higher. Casing ATX casing legend with heavy duty power supply. Optical drive, HD/DVD – Reader & writer Graphic Card Builtin. Key Board Heavy duty. Ether net card. 10/100 Mouse Heavy duty. Monitor LED17” or above, HD slot in CPU and connection. Dust cover Heavy duty Mouse Pad Thick Head phone With sound control. Sound Card Real Tack ALC 8885 or above. USB slots 4 No. 4 No. Operating system Windows 7, Genuine licensed CD</p> <p>Home/Professional Microsoft. with H.P. LASER JET 1020 or higher specification. Print technology Laser Processor Speed 266 MHz Maximum RAM 8 MB Standard RAM 8 MB Resolution 600 x 600 dpi Print speed B/W 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/A5/B5/ Letter/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.</p>

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S Habib & Sons, Hyderabad.	<p>Intel core i.7Desktop computer PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS:Graphic Card, OPERATING SYS:Windows-7 (licensed), INPUT DEVICES:KB/Mouse, EXTRAS Dust Cover, Headphone. Screen Size:17" W, Viewable Image Size:470mm, Pixel Pitch:0.3(H)x0.3 (V)mm, Display Area:409.8 (H)x230.4 (V)mm. Brightness:200 cd/m², Contrast Ratio (typical):20000000:1 (DCR), Viewing Angle:90/50 (CR≥10), Recommended, Resolution:1366x768@60Hz, Display Colours:16.7M, Input Signal: Analog RGB, Input Connector:15-pin D-Sub, Power Supply:90~240VAC, 50/60Hz, Power Consumption: Power On: <18W (Typical), Standby: <0.5W, Plug & Play: VESA DDC2B™ & DDC2B/CI, User Control: Auto/Exit, Eco(DCR)-, Image Ratio/+, Menu, Power, OSD Languages:16 languages, Speakers: No, Cabinet Colour: Black, Contrast Ratio:600 : 1, Note: If the same model not available at the time of delivery model of the product specified will be provided as per market availability. With HP LaserJet P1102W, Print Technology: Monochrome LaserJet, Print Speed:Up to 19PPM, Resulation: Up to 600x 600x 2dpi (1200dpi effective output), Duty Cycle 5000pages monthly, Paper Handling: 10sheet priority feed slot, 150-sheet input tray, Processor:266 MHz Tensilica, Duplex:Manual, Wireless Connectivity: Yes WiFi 802.11b/g.</p>	Qualified
2.	M/S Burraq Business Corporation, Hyderabad	<p>PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS:Graphic Card, OPERATING SYS:Windows-7 (licensed) With HP LaserJet P1102W.</p>	Qualified.

B	Purchase of Plant & Machinery.
2	ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, Chromate, USA/U.K./Germany or Exact Equivalent imported.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Absorbance Reader Model: ELx800, BIOTEK INSTRUMENTS INC., USA, Reading speed:96 wells: 30 seconds, Physical Characteristics Power: 100 - 240 Volts AC. 50/60 Hz. Dimensions:15"W x 16.5"D x 7"H (38.1 x 41.9 x 17.8 cm) Specification Local Arrangement</p> <p>A). Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. Minimum System Requirements: • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions)</p> <p>B) Printer Epson. To be used direct with Elx800.</p> <p>C) Computer System, Core i3 with 18.5" LCD, Standard</p>	Qualified.
2.	M/S Talha Enterprises, Karachi	<p>Absorbance Micro plate Spectrophotometer Model: EPOCH General ; Wavelength selection Monochromator Read methods End point, kinetic, spectral scan, well area scan Microplate types Microplate types 6- to 384-well plates, Other labware Take3™ Micro-Volume Plate, BioCell Software Gen5™ Data Analysis Software Automation BioStack™ and 3rd party automation compatible ('R' configuration). Absorbance Light source Xenon flash Wavelength selection Monochromator, selectable 1 nm or greater increments Wavelength range 200 nm-999nm, selectable in 1 nm increments Bandwidth 5 nm, Dynamic range 0-4.0OD. OD Reading speed 96 wells: 15 seconds 384 wells: 31 seconds. Made by Biotek USA</p>	Qualified.
3.	M/S Roghay Sons, Karachi	<p>ELISA MICROPLATE READER, Model ELX 800 Technical Specification: Detection modes, Absorbance, Read methods, End point, kinetic and area scanning under computer control Microplate types 6- to 384-well plates, 60/72/96-well Terasaki plates, Light source: Tungsten halogen Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Dynamic range: 0 to 3.0 OD, Resolution:0.001 OD, Filters supplied:4 filters, OD repeatability:<0.5% at 2.0 OD, Reading speed:96 wells: 30 seconds, Regulatory:For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant, Mfr. Biotek,USA,</p> <p>Additional Accessory.</p> <p>(a) Gen 5 Software.</p> <p>(b) PC latest available.</p>	Qualified.

3	<p>Auto micro plate washer with accessories strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Thermo, Bio Tech, Bio Rad, UK, USA, Germany or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Assays: ELISA (Cell-based assays) Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types:96 well. Maintenance: Pre-programmed maintenance routines. Magnet: High strength 96-well format. Washing Manifold Types:96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds Volume Range: 25-3,000µL/well (configuration dependent). Selectable in 1 µL increments. Flow Rates: 1 - 9. Wash Cycles: 1-10. Supply Bottle: 2 L. Physical Characteristics Power:100 - 240 Volts AC. 50/60 Hz. Dimensions: 14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm).</p>	Qualified.
2.	M/S Talha Enterprises, Karachi	<p>Microplate Elisa Washer Model: ELX50/8 Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300µL/well, 96-well (16-channel) Operating 15C to 40C, Biomagnetic Separation No Wash Cycles: 1 to 10, Volume Range: 25 to 3000µL/well, Fluid Delivery: Internal positive displacement syringe pump Buffer Selection: Optional switching of up to 3 wash buffers Dispense Precision: _ 3% CV, Residual Volume:_ 2µL/well, Onboard Software:75 programs, Program linking, Overflow wash/overflow, protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) , Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg) Power: Compatible with 100 to 240 V~ i}10% at 50-60 Hz 4070513S 12 Channel Manifold Biotech USA</p>	Qualified.
3.	M/S Roghay Sons, Karachi	<p>ELISA MICROPLATE WASHER, Model ELX50 General: Syringe drive fluid delivery system for precise control over all fluid flow rates, Wash single strips or full plates, 96- and 384-well microplates Unique priming trough built into removable Microplate carrier for effortless priming and easy maintenance Automatic buffer switching, Create, edit, delete and copy up to 75 programs from the keypad Link up to 10 programs to run the most complex routines, Multi-user friendly; Mfr. Biotek, USA</p>	Qualified.

4	<p>ELISA reader with Microplate washer</p> <p>a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported.</p> <p>with</p> <p>b). Microplate washer with accessories; strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1-20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>A) Elisa Reader with Microplate Washer Model: ELx800, BIOTEK INSTRUMENTS INC., USA. General. Detection modes: Absorbance Read methods: End point, kinetic and area scanning under computer control. Microplate types: 6- to 384-well plates. Software: Gen5 Reader Control Software. Onboard software: 55 user-programmable protocols. Absorbance: Light source: Tungsten halogen. Wavelength selection: Filters Wavelength range: 400 to 750 nm. Bandwidth:10 nm. Dynamic range: 0 to 3.0 OD. Resolution: 0.001 OD. Filter wheel capacity: 5 positions. OD accuracy:<1% at 2.0 OD OD linearity:<1% at 2.0 OD, <3% at 3.0 OD OD repeatability: <0.5% at 2.0 OD. Reading speed:96 wells: 30 seconds.</p> <p>B). Auto plate Washer. Model: Elx50, BIOTEK INSTRUMENTS INC., USA. General. Assays: ELISA. Cell-based assays. Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types: 96 well. Washing Manifold Types: 96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds. Volume Range: 25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments. Flow Rates:1 - 9. Wash Cycles: 1 - 10. Dispense Precision:≤3% CV Residual Volume: Solid bottom plates ≤2 µL/well <u>Filter bottom plates</u> Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted</p> <p>A) Data Analysis Software Gen5™ , BIOTEK INSTRUMENTS, INC., USA. Applications: Gen5, used with BioTek microplate readers, supports many microplate applications in Absorbance, Top and Bottom. Fluorescence, Flash and Glow Luminescence, Time-Resolved. Fluorescence and Fluorescence Polarization, including: Calcium Uptake. Nucleic Acid Quantitation. Protein Assays. Dual-Luciferase® Assays. Enzyme Kinetics. Live/Dead Assays. Cell Proliferation Studies. ELISA, FRET Assays, Endotoxin Analysis. GFP Assays, BRET, HTRF® Minimum System Requirements: • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions), • Intel® Pentium® III-Class PC or compatible processor (500 MHz or higher), • 512 MB RAM or higher 2 GB Hard Drive space, • Designed for XGA Resolution at 1024 x 768, • CD-ROM drive, • Keyboard, • Mouse, Microsoft® Internet Explorer® v 5.0 or higher (for Online Help), Microsoft Excel® 2000 or later (for Quick Export and Power Export™ feature)</p> <p>B) Printer Epson To be used direct with Elx800.</p> <p>C) Computer System, Core i3 with 18.5" LCD, Standard Specification Local Arrangement</p>	Qualified.

2.	M/S Roghay Sons, Karachi	<p>(a) ELISA MICROPLATE READER Model ELX 800 General. Detection modes: Absorbance, Read methods: End point, kinetic and area scanning under computer control. Microplate types 6- to 384-well plates. 60/72/96-well Terasaki plates (NB option). Light source: Tungsten halogen. Wavelength selection: Filters. Wavelength range: 400 to 750 nm. Bandwidth: 10 nm. Dynamic range: 0 to 3.0 OD Resolution: 0.001 OD. Filter wheel capacity: 5 positions Filters supplied: 4 filters. Regulatory: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant. Mfr. Biotek, USA.</p>	Qualified.
		<p>(b) ELISA MICROPLATE WASHER, Model ELX50, General: Syringe drive fluid delivery system for precise control over all fluid flow rates. Wash single strips or full plates. 96- and 384-well microplates. Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance. Automatic buffer switching. Create, edit, delete and copy up to 75 programs from the keypad. Link up to 10 programs to run the most complex routines. Multi-user friendly; total programming control for complex research applications, yet easy to use for routine clinical work. Programmable shaking duration and intensity. Built-in maintenance programs. Bottom washing and crosswise aspiration protocols. Small footprint with integrated dispense and waste pumps. Aerosol cover for safety. Mfr. Biotek, USA</p>	
		<p>Addition Accessory</p>	
		<p>(I) Gen 5 software</p>	
		<p>(II) Computer with LED Screen.</p>	
		Total:	

5	Single channel pipette 10-100µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable. With Calibration Certificate. Cat. No: 825.0100, Serial: Acura 825, SOCOREX, SWITZERLAND. Volume Range: 10–100µl.	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable Tip Holders and Tip Ejectors are fully Autoclaveable, Up to 50% deduction of pipetting and purge forces Ranges as follows:- Measuring Range 10 to 100µl, Accuracy ±0.15µl Cat No. F144564, Model P100N, Gilson Made in France.	Qualified.
3.	M/S Talha Enterprises, Karachi	Single Channel Pipette 10-100ul, HT Company UK	Not qualified, not equivalent as desired.
4.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat#4073) Make: Corning each.	Qualified.
5.	M/S World Wide Scientific Karachi	MICROPETTE™ PLUS AUTOCLAVABLE SINGLE CHANNEL VARIABLE VOLUME. Cat # 71311108 Volume: 10-100µl, Accuracy:(±)0.8%/1.00%/3.00% Qty 02, FEATURES: Fully autoclavable at 121°C. Lightweight and ergonomic design Clear digital display. Integral tip ejector for access into narrow tubes. Easy to calibrate and maintain with tool supplied. Autoclavable tip-cone. Used with 'universal' pipette tips. M/s SCIOLOGIX	Not qualified not equivalent as desired.

6	Single channel pipette 20-200µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable. Individually Calibrate, Fully Autoclaveable With Calibration Certificate. Cat. No: 825.0200, Serial: Acura 825. SOCOREX, SWITZERLAND. Volume Range: 20 – 200µl	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 20 to 200µl, Accuracy ±0.30µl Cat No. F144565, Model P200N , Gilson Made in France	Qualified.
3.	M/S Talha Enterprises, Karachi	Single Channel Pipette 20-200ul HT Company UK	Not qualified, not equivalent as desired.
4.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 20 TO 200 (Cat#4074) Make: Corning	Qualified.
5.	M/S World Wide Scientific Karachi	CAT#71311109, MICROPETTE™ PLUS AUTOCLAVABLE SINGLE CHANNEL VARIABLE VOLUME Volume: 20-200µl, Accuracy:(±)0.6%/0.8%/1.00% FEATURES: Fully autoclavable at 121°C Lightweight and ergonomic design. Clear digital display Integral tip ejector for access into narrow tubes. Easy to calibrate and maintain with tool supplied. Autoclavable tip-cone. Used with 'universal' pipette tips M/s SCIOLOGIX.	Not qualified, not equivalent as desired.

7	Single channel pipette 5-20µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate Cat. No: 825.0020, Serial: Acura 825 SOCOREX, SWITZERLAND. Volume Range: 2 – 20µl	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 2 to 20µl, Accuracy ±0.060µl Cat No. F144563, Model P20N , Gilson Made in France.	Qualified.
3.	M/S Talha Enterprises, Karachi	Single Channel Pipette 5-50ul HT Company UK	Not qualified not equivalent as desired.
4.	M/S ScienTech Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 2 TO 20 (Cat#4072) Make: Corning each.	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# 71311105, MICROPETTE™ PLUS AUTOCLAVABLE SINGLE CHANNEL VARIABLE VOLUME, Volume: 2-20µl, Accuracy:(±)0.90%/1.20%/3.00% FEATURES: Fully autoclavable at 121°C. Lightweight and ergonomic design. Clear digital display. Integral tip ejector for access into narrow tubes. Easy to calibrate and maintain with tool supplied. Autoclavable tip-cone. Used with 'universal' pipette tips. M/s SCIOLOGIX.	Not qualified not equivalent as desired.

8	Single channel pipette 5-50µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable ,Individually Calibrate, Fully Autoclaveable, With Calibration Certificate, Cat. No: 825.0050, Serial: Acura 825, SOCOREX, Switzerland. Volume Range: 5 – 50µl	Qualified.
2.	M/S Talha Enterprises, Karachi	Single Channel Pipette 5-50ul HT Company UK	Not qualified not equivalent as desired.
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat # 4073), Make: Corning each.	Qualified.
4.	M/S World Wide Scientific Karachi	CAT# 71311106, MICROPETTE™ , PLUS AUTOCLAVABLE SINGLE CHANNEL VARIABLE VOLUME. Volume: 5-50µl, Accuracy:(±)0.60%/0.90%/2.00% FEATURES: Fully autoclavable at 121°C Lightweight and ergonomic design. M/s SCIOLOGIX.	Not qualified not equivalent as desired.

9	Multi Channel (8 channel) pipette 10-100µl. adjustable (micro litre), autoclaveable Eppendorf/ Socorex/ Kartel or exact equivalent imported..
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Multi Pipettes 8-Channel , Cat No. 855.08.200, Serial: Acura manual 855, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 20 – 200µl, Division: 0.2µl	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Pipetman L Multi channel , GLP Features, Convenient GLP features to PIPETMAN L, Additional GLP features include: Traceable serial number, Color-coded push-button Unique 2D identification bar code, Volume range 20 µl to 300 µl, Eight Channel Cat No. FA10016, Model P12x 300L Gilson Made in France.	Qualified.
3.	M/S Talha Enterprises, Karachi	Single Channel Pipette 10-100ul HT Company UK	Not qualified not equivalent as desired.
4.	M/S ScienTec Karachi	LAMBDA PLUS PIPETTOR 8 CHANNEL 20 TO 200 (Cat # 4082) Make: Corning each.	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# 71311212. MICROPETTE™ PLUS AUTOCLAVABLE MULTI-CHANNEL PIPETTOR, Volume: 50-300µl, Accuracy:(±)0.70%/1.0%/1.50% , FEATURES: Fully autoclavable at 121°C. Lightweight and ergonomic design. Clear digital display Integral tip ejector for access into narrow tubes. Easy to calibrate and maintain with tool supplied. Autoclavable tip-cone. Used with 'universal' pipette tips M/s SCIOLOGIX.	Not qualified not equivalent as desired.

10	Single channel pipette 100-300µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable Individually Calibrate, Fully Autoclaveable, With Calibration Certificate Cat. No: 825.1000, Serial: Acura 825, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 100 – 1000µl, Division: 1 µl	Qualified.
2.	M/S Talha Enterprises, Karachi	Single Channel Pipette 100-1000ul HT Company UK	Not qualified not equivalent as desired.
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 100 TO 1000 (Cat#4075) Make: Corning each.	Qualified.

11	Single channel pipette 0.5-10µl, adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate, Cat. No: 825.0010, Serial: Acura 825, SOCOREX, Switzerland. <u>Specifications:</u> Volume Range: 0.5 – 10µl Division: 0.01µl	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable fully Autocleavable, Up to 50% deduction of pipetting and purge forces Ranges as follows:-Measuring Range 1 to 10µl, Accuracy ±0.040µl, Cat No.F144562, Model P10N, Gilson Made in France.	Qualified.
3.	M/S Talha Enterprises, Karachi	Single Channel Pipette 0.5-10ul HT Company UK	Not qualified not equivalent as desired.
4.	M/S ScienTec Karachi	Lambda Plus Single Channel PIP 0.5 TO 10 (Cat#4071) Make: Corning each.	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# 71311104, Micropette™ Plus Autoclavable Single Channel Variable Volume, Volume: 0.5-10µl, Accuracy:(±)1.00%/1.50/2.50%, FEATURES: Fully autoclavable at 121°C M/s SCIOLOGIX.	Not qualified not equivalent as desired.

12	Distillator glass 4-litre P/H (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 4 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Water Distillation Apparatus Model: BMS-4CE Biotechnology Medical Services K. Canada Inc. <u>Specifications:</u> Distillate Output: 4litres per hour single distilled. Power supply requirement: 220VAC. 50/60Hz.	Not qualified Canada is not equivalent as desired.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Distillation Apparatus all glass Borosilicate Glass fitted with metal element 3 KW capacity 4 Litre per hour, conductivity 4µs/cm, PH 5.5 to 6.5 Model IM-50, Irmeco Germany.	Qualified.
3.	M/S Talha Enterprises, Karachi	Distillator Glass 4-Liters P/H (Single Distillatory) Water Still Mono Distillation, with Shortage Tank Model: GFL2004. Capacity:4 liters / h. Conductivity approx. 2.3µs / cm at 25°C *. Storage tank capacity 8 l, Cooling water required approx. 48 l / h. Minimum water pressure:3 bar to max. 7 bar. Exterior dimensions:(W x D x H) 620 x 330 x 460 mm. Electrical connection:230V/ 50...60 Hz / 3.0 kW . Net weight approx.20.2kgs. Packing volume approx. 0.16 m3 Made By Germany	Qualified.

4.	M/S ScienTec Karachi	Water Distillation unit (single Distillation) , Output 4 Liters/Hours, Model: 3361, Make: Borosil each.	Not qualified. Borosil is not equivalent as desired.
5.	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710 Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety . Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. Technical Specification: Out Put: 4 L. Wattage:3000 W. Voltage:230 V. Base Dimension:55 x 15 cm. M/s POBEL-SPAIN	Qualified.

13	Trinocular Microscope image capturing digital camera with LCD display. Trinocular head: 45 degree inclined trinocular head, 360 degree rotatable for comfort viewing. Objectives: 4x,10x,40x,100x Eye piece:10x wide field antifungal treated, Magnification: 40x,100x,400x,1000x. Condenser: Abbe NA 1.25 (oil) with iris diaphragm. Illumination: Built in LED. Microscope colour video camera: CMOS C mount adapter, 10-12 mega pixel compatible with window 7 or 8 , AV & USB connector, Krusse, Leica, Nikon, Olympus Japan/ Germany/ UK/ USA or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Trinocular Research LED Microscope, With Built in UPS Model: Lx 400 Labomed Labo America Inc., USA. <u>Specifications:-</u> Optical system: Antifungal, Infinity optical system. Stand: Single mold sturdy stand with anti-rust materials. Extended base with hand rests for enhanced stability and comfort Viewing Bodies: Siedentopf Trinocular tube, 30° inclined, 360° rotatable, Interpupillary distance 48-75mm Eyepieces: Wide Field focusable paired eyepiece WF 10x/20mm, with foldable eye guard, lockable, antifungal coating. Nosepiece: Reverse angle quadruple nosepiece (Ball-bearing type) with click stops and rubber grip. Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives, antifungal. 4x/NA 0.10/WD 30.0mm 10x/NA 0.25/WD 7.0mm. 40x (spring loaded)/NA 0.65/WD 0.65mm. 100x (spring loaded, oil)/NA 1.25/WD 0.23mm Mechanical Stage: Rackless X-axis, double plate mechanical stage plate size 200 x 160mm, X/Y travel range 78 x 54mm. Low drive movement controls. Hard coated surface for scratch resistance. Detachable double slide holder. Condenser: Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with snap-in blue filter. Rack and pinion movements on metal guides. Focusing: Feather touch tension adjustment free co-axial coarse and fine focusing for ultra smooth movement. Fine focus 0.3mm per rotation. Illumination: LED Illumination with built-in rechargeable battery making it cordless during use. LED lamp life is upto 100,000 hours. Electrical: Universal input 100V-240V AC, 50/60 Hz. Packed in styrofoam box, with operation manual, allen wrench, Nylon dust cover, cleaning cloth, power cord , spare bulb, spare fuse and 10ml immersion oil TYPE A. <u>Including Digital Camera:</u> Digital Camera Model: W810, Sony. 20.1 Megapixel With phototube attachment and other standard accessories.	Not qualified. normal still CCD camera.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Microscope Trinocular Research Antimould Treated Stand 45 degree Trinocular observation tube, quadruple Fixed revolving nose piece Semi-Plan objectives 4X, 10X, 40X spring and 100X spring oil immersion, Semi-Plan Objectives extend clarity to the edge of the image, moveable Abbe Condenser with focusing control with aperture iris Diaphragm for critical focus coarse and fine focusing, tension adjustment, with built in low drive, mechanical stage with smooth moving coaxial controls, wide field eye piece 10X paired complete unit with standard accessories, built in variable Light Source Halogen Light 6Volt 20W, operated on 220 Volts, Model IM-910 Irmeco Germany. WITH Camera Color Microscopy Meiji Techno's milestone HD1000T HD color microscopy camera is a full- featured, standalone, HDMI scientific imaging solution offering full 1080p60 preview with perfect color reproduction and extremely fast frame rate streaming direct to monitor. You can operate the camera by directly connecting to a monitor without a PC and save images into an on-board microSD card, or use it as a standard USB 2.0 camera. The camera quickly reacts to lighting changes in any life science, clinical or material applications. With video output via HDMI connector, the on-camera buttons allow easy access to feature settings. Specifications HDMI C-mount camera. Frame speed 60 fps. Live resolution 1920x1080. Still resolution 3264x1836. Video record: 720P 12.5fps. Output: HDMI, USB 2.0, microSD. 1/3" CMOS chip (use .3x C-mount adapter). Button (1) controls: Exposure, White balance, Gamma, Gain, Sharpness, Saturation, Contra. Button (2) controls: Cross line, Image Compare, Image Freeze. OS support: Windows XP and later. Software: IS Capture full parameter control. Model HD1000T and 32" LCD Complete set Meji Techno, Japan</p>	Qualified.
3.	M/S ScienTec Karachi	<p>Trinocular Microscope with digital camera Model: B-193, Make: Optika, Italy, Key features: Head: TRINOCULAR 360 ° rotating 30 ° inclined with adjustable interpupillary distance and dioptric compensation Objectives: 4x10x40x100x, Stage: Double Layer, 125x115mm with 70x30mm, X-Y moving range Illuminator: X-LED₂ system with adjustable intensity. Camera: 8MP digital camera with optical adapter & Measuring software, 2.4" LCD display.</p>	Qualified.
4.	M/S Roghay Sons, Karachi	<p>Trinocular Microscope with Camera Model H-600 with camera, Supplied with (1.Trinocular Head. 2.Eyepiece WF 10X. 3.PLAN ACHROMATIC LENS 4X. 4.PLAN ACHROMATIC LENS 10X. 5.PLAN ACHROMATIC LENS 40X. 6.PLAN ACHROMATIC LENS 100X. 7.Microscopy Camera) Mfr. HundWetzler, Germany</p>	Qualified.

14	Refrigerator 18cft. Specification: Wide body. Temperature control. Detached door gasket for easy cleanup and change. VC. Semi-automatic ice maker. Wide voltage fluctuation resistance. Handle and lock integration Dawlance, Weaves or exact equivalent with higher specification.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Refrigerator 18cft. Laboratory Refrigerator Model: HLR125 5103125-1-50 Temperature Range 2°C to 10°C. Interior Dimensions (w x h x d) 24.75" x 58.25" x 30.25" . 629mm x 1480mm x 769mm Exterior Dimensions (w x h x d) 29.5" x 78.75" x 35.5" . 750mm x 2001mm x 902mm. Overall Exterior Dimensions (w x h x d) 29.5" x 78.75" x 38.5" . 750mm x 2001mm x 978mm. Includes door handle, electrical panel, and evaporation tray Interior Volume 25.2 cu ft / 714 liters. Made by USA.	Qualified.
2.	M/S Burraq Business Corporation, Hyderabad	Dawlance Model 91996	Qualified.
		Waves Model 2180	Qualified.
3.	M/S Habib & Sons, Hyderabad.	Model 91996 Mono, Dawlance/ Waves/ Orient, As per tender specification.	Qualified.

15	Visicooler 4°C refrigerator upright temperature controlled. upright temperature: display 500 liter, carevell or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Carevell	Qualified.
2.	M/S Talha Enterprises, Karachi	Haier.	Qualified.

16	Micro wave oven: Interior volume approx. 30 lit, Adjustable output stages, Digital display for time of day or count-down, 30-min. timer with acoustic signal, Removable glass rotary plate (Ø approx. 245 mm), Electrical supply 220-230 V, 50 Hz, Dawlance, Orient, LG, PEL, or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Homage 34litre.	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Model 115CH2 Dawlance/ Orient. As per tender specification.	Qualified.

17	Incubator. Bench top Horizontal, Capacity: 50-55 liters, Temp. Range: Ambient +5°C to 70°C, Accuracy: ± 0.2°C, Controller: Digital, Display: LCD, Material: Stainless steel, Shelves: 2 Teflon coated, adjustable position, Viewing Window: glass door safety devices, Overtime, over current protector, sensor error detector. Application: Micro organism culture, USA, UK, Germany, or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Oven Forced Convection type Horizontal Flow, With Digital Fuzzy Control , Model: WOF-50, WITEG, GERMANY. <u>Technical Specification:</u> Air Flow Type: Forced Convection type, below FAN, Capacity: 50 lit. Temp. Range: Ambient +5 °C to 250 °C. Temp. Accuracy: ±0.3 °C at 100°C. Temp. Uniformity: ±1°C at 100°C. Temp. Sensor: PT1100 PT100. Heating power /Consumption: 900 W. Heating-up Time: 15 min. to 100oC, 25 min to 150oC. Recovery time (door 30Sec): 3min to 100oC, 25min to 150oc Timer & Alarm: 99hr 59min (with delay/continuous run), error status timer end. Display: Digital LCD display with back light function. Controller: Digital fuzzy controller with jog-shuttle switch (turn + push). Shelves: 2ea, including stainless steel wire shelves. Load per rack: 32 kg (16kg x 2 shelves). Ventilation: Ventilation hole (id. Ø40mm) with stainless steel cap. Safety circuit: Over temp. and over current protector, sensor error detector. Material Internal: Stainless steel (# 304). Material External: Powder coated steel. Material Insulation: Glass wool. Dimension internal (mm): 370 x 340 x 420. Others: Storage function (Temp. Timer). Locking mode (Jog-Shuttle input disabled). Power Consumption: 900 W. Power Supply: 220 volt, 50/60 Hz.	Qualified.

2.	M/S AL-Beruni Scientific Store, Hyderabad	Incubator Memmert Precision, Adaptive, multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display. Temperature range 10°C above ambient up to +80°C. Resolution of display for set point values 0.1°C. Double doors (interior glass, exterior stainless steel) . Adjustment of pre-heated fresh air admixture . by air flap control in 10% steps, digital timer adjustable from 1 minute to 99 days, 23 hours. adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1. Double Over Temperature Protection. Interior & Housing made of Stainless Steel. Set point WAIT function - the process time does not start until the set temperature is reached. Programme Stored in Case of Power Failure. Operated on 220volts, IN Series. Capacity 53 Lit, interior dimension: 400 x400x330mm with Two stainless steel trays, Model IN-55, Memmert, Made in Germany.	Qualified.
3.	M/S Talha Enterprises, Karachi	Cat # 51028130 Model: IGS60, General Purpose Microbiological Incubators . Convection technology Gravity convection. Temperature range °C ambient +5 °C to 75 °C. Spatial temperature deviation at 37 °C± 0.6 °C. Temperature deviation over time at 37 °C ± 0.2 °C. Footprint m ² / sqft 0.3 / 3.2. Chamber volume L / cuft 75 / 2.6. Dimensions chamber, mm / in (WxHxD) 354 x 508 x 414 / 13.9 x 20.0 x 16.3. exterior*, mm / in (WxHx D) 530 x 720 x 565 / 20.9 x 28.3 x 22.2. Number of shelves supplied / max 2 / 13. Max. shelf load kg / lb 25 / 55. Rated voltage / frequency V / Hz 230 / 50. Rated power / max. current W/A 300 /1.3. Weight kg /lb 40 / 88 Made by Germany 12 Month Warranty.	Qualified.
4.	M/S ScienTec Karachi	Forced Convection Laboratory Incubator Microprocessor PID Controlled Dual Display Digital Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# CLN53. INCUBATOR, MODEL NO: CLN 53 TECHNICALS SPECIFICATOINS: Air Convection: Natural (CLN). Chamber Capacity: 56 L, Door Type: Glass and Solid. Temperature Range: 5° above ambient temperature ...+100°. Controller: Microprocessor with external LCD Graphic display. Interior: Acid-proof stainless steel according to DIN 1.4301. Housing: Stainless steel. Overall dim (WxHxD): 595x700x600 mm. Internal dim (WxHxD): 395x395x360 mm. Nominal Power (W): 400. Temperature Fluctuation at +37°C: ±0.1. Temperature Variation at +37°C:±0.3, Temperature Resolution: every 0.1. Shelves Fitted: 2. Voltage: 230 V M/s POLEKO-AAPARTURA- POLAND	Qualified.
6.	M/S Roghay Sons, Karachi	Laboratory Incubator, Model RI 53, Volume 53 Liter, Mfr. Binder-World GMBH, Germany	Qualified.

18	pH meter microbiology lab. Use. Desktop ph meter with ph and temp. Electrode, Range pH 0.00 to 14.00 pH (full scale), Temperature 0 to 60 °C or 32 to 140 °F, Resolution pH 0.01, Accuracy Temperature 0.1 °C or 0.1 °F, Combination waterproof pH tester / thermometer, Dual Level Display Shows pH & Temperature, Temperature in °C and °F, Percent Remaining Battery Indicator, Replaceable pH Electrode, Hanna, fisher, CarlRoth, Acculab, or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Precision pH/ORP/Ion°C/°F Meter Model: Bante930 BANTE Instruments Co., Ltd. USA. Bante 930 is high accuracy meter used for measuring pH, Oxidation-Reduction Potential (ORP) and ion concentration. Meter Included: pH & ORP Electrode, pH Buffers, Temperature Probe, Electrode holder Arm, 9V Power Adapters. Specifications:- pH Range: -2.000~16.000pH, pH Accuracy: ±0.005pH. ORP Range: 0 to ±1999.9mV. ORP Accuracy: ±0.2mV, Ion Concentration Range: 0~19999ppm, Ion Concentration Accuracy: ±0.5% F.S (Monovalent), ±1% F.S (Divalent). Temperature Range: 0.0 to 100.0°C, 32 to 212°F. Temperature Accuracy : ±0.3°C, ±0.5°F pH Calibration Points: 2 points, NIST (pH4.00/6.86/9.18) or USA (pH4.01/7.00/10.01) Ion Calibration Points: 2 to 5 points, (10 ⁻² /10 ⁻³ /10 ⁻⁴ /10 ⁻⁵ /10 ⁻⁶ mol/L). Temperature Compensation: 0 to 100°C, Manual or Automatic. Built-in Ion Modes: Na, Ag, K, NH ₃ , CL, F, Ca, No ³ , Pb, I, Cu, Br, CN. Memory & output: 99 Data sets with Date/Time stamping USB. Power Requirements: DC9V, using AC adapters, 220VAC/50Hz. Dimensions: 210 (L) x 188 (W) x 60 (H) mm	Qualified.

2.	M/S AL-Beruni Scientific Store, Hyderabad	pH Meter Digital Bench Model Microprocessor Controlled with parallel Temperature indication, PH Range -2.0 to 20.0 ±0.1pH, PH Resolution 0.005pH, MV Range ±1200.0mV, Accuracy mV ±- 0.3mv, Automatic Temperature Compensation, Temperature Range -5 to +105.0°C, Temperature accuracy ±0.1°C with two/three point Calibration System, Battery operated as well as operated with 220 Volts Complete with following accessories:- a)Black Electrode stand with base. b)Plastic Beaker 50 ml. c)3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e)PH Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany.	Qualified.
3.	M/S Talha Enterprises, Karachi	PH Meter Model PH 210 BIOBASE CHINA	Not qualified. not equivalent as desired.
4.	M/S ScienTec Karachi	pH Meter Bench Top , Model: Eutech pH 700 Make: EU-Tech Instruments.	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# HI 2211. BASIC PH/ORP BENCHTOP METER Benchtop pH/ORP and °C meter. FEATURES: Simple to operate Automatic Temperature Compensation. Automatic calibration Calibration expiration reminder. ORP range BASIC PH BENCHTOP METER: Range (pH): -2.00 to 16.00 pH. Range (mV): ±399.9 mV, ±2000 mV. Range (Temperature): -20 to 120.0°C, Resolution (pH): 0.01 pH. Resolution (mV):0.1 mV; 1 mV, Resolution (Temperature): 0.1 °C. Accuracy (pH): ±0.01 pH, Accuracy (mV): ±0.2 mV. Accuracy (Temperature): ±0.4 °C, pH Calibration: Automatic, 1 or 2 point with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01). Temperature Compensation: Automatic manual from -9.9 to 120 °C pH Electrode: Single junction, BNC connector, 1 m cable (included), Power Supply: 12 VDC adapter (included) M/s HANNA INSTRUMENTS-EUROPE.	Qualified.
6.	M/S Roghay Sons, Karachi	pH meter, Model MI-150, Supplied with pH glass probe, Mfr. Milwaukee, Hungary	Not qualified. Not equivalent as desired.

19	Electric Fan wall mounting iron body. 16", Pull cord system, wall bracket Fan, Millat or exact equivalent with higher specification.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Electric Fan Wall mounting iron body 16" Royal & 18" Millat	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Royal 18" /Millat 16", As per tender specification.	Qualified.
	M/S Burraq Business Corporation Hyderabad.	Millat 16"	Qualified.

20	UV light wall mounting. 30-40 watt, 220-230V, Intensity 15u w/ cm2, wall mounting, with replaceable tubes & starters Philips or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S AL-Beruni Scientific Store, Hyderabad	Phillips.	Qualified.
2.	M/S Talha Enterprises, Karachi	UV Light wall mounting 30-40 watt, 220-230V China	Qualified.
3.	M/S Habib & Sons, Hyderabad.	Phillips. As per tender specification.	Qualified.

21	Solar energy pannel system (solar panel 1500watts, Charge controller 63Ampere, Inverter 1267wattts , Battery 1293Ah) with installation.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Solar Energy Pannel system Solar panel 1500 watts charge controller 63Ampere inverter 1267 watts battery 1293AH with installation.	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Specification of Solar Energy Panel system 1500 watts for Dry battery, Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Dry battery (AGM type):1400 ampere, Solar panel warranty:25years Battery:01 year, System warranty:01 year with free service, Existing system load back-up:6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system is made in china.	Qualified.
		Specification of Solar Energy Panel system 1500 watts for Gel battery. Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Gel battery (power safe /Narada):1400 ampere, Solar panel warranty:25 years, Battery:01 year, System warranty:01 year with free service, Existing system load back-up: 6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system made in china.	Qualified.

22	Stabilizer1000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 1000volts servo motor copper wire with timer Stabmatic	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Model:SF1000VA, warranty: one year, STABIMATIC UK.	Qualified.
	M/S Burraq Business Corporation Hyderabad.	Stabilizer 1000volts servo motor copper wire with timer Stabmatic	Qualified.

23	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 3000volts servo motor copper wire with timer Stabmatic	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Model GL 3000 VA, Warranty one year, STABIMATIC UK.	Qualified.
	M/S Burraq Business Corporation Hyderabad.	Stabilizer 3000volts servo motor copper wire with timer Stabmatic	Qualified.

24	Stabilizer5000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 5000 volts servo motor copper wire with timer Stabmatic	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Model: GLD 5000VA, Warranty: one year, STABIMATIC UK.	Qualified.
	M/S Burraq Business Corporation Hyderabad.	Stabilizer 5000 volts servo motor copper wire with timer Stabmatic	Qualified.

25	<p>Tabletop Refrigerated centrifuge, Eppendorf, Sigma, Thermo, or equivalent. Temp. Variable from -20 to +40 °C in 1 °C-increments, Max. speed (in microlitre rotor) 15 000 min⁻¹, adjustable to steps of 10 , Min. speed 500 min⁻¹, Operation time 1 to 99 min, continuous run, impulse key, Temperature range 20 to +40 °C , Rotors and accessories: 24 x 1.5/2.0 ml, 8 x 50 ml, 8 MT- plates and 4 x 50 ml , Power supply 220-240 V, 50/60 Hz , Automatic rotor recognition, Optional display of min⁻¹ or x g upon entry of rotor radius, Simple rotor change, Window in lid Metal housing, Security: emergency unlocking device, motor overheating protections, unbalance switch-off, Operation manual Eppendorf, Sigma, Thermo, or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Tabletop Refrigerated Centrifuge Model: 5500, KUBOTA, JAPAN Specifications: - Maximum Speed: 15,000rpm. Maximum RCF: 21,040xg. Maximum Capacity: 1,020mL. Control system: Micro-processor control (Brushless motor) Speed, RCF, Time, g-sec, Acceleration & Deceleration, Temperature, 5 channel memories. Alarm display: Lid open, Imbalance, Over speed, Abnormally high temperature Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock and speed sensor, temperature sensor Acceleration / Deceleration: Three-level selectors; Rapid, Slow and Super Slow. Speed setting: From 200 to 15,000rpm, 10rpm increments. Speed indication: Digital display, From 0 to 15,500rpm, 10rpm increments. RCF setting: From 10 to 20,630xg, 10xg increments (adjustable to actual rotation radius). RCF indication: Digital display, From 0 to 22,030xg, 10xg increments (adjustable to actual rotation radius) Integrator setting and indication: Digital display, From 1.00 to 9.99x10⁹ g-sec. Timer setting and indication: Digital display, with Hold and Memory Flashing from 1 sec to 100 sec, in 1 sec increment setting / indication from 100 sec to 990 sec, in 10 sec increments setting / 1 sec increment indication from 1 min to 100 min, in 1 min increment setting / indication from 100 min to 990 min, in 10 min increments setting / in 1 min increment indication Temperature setting and indication (chamber): Digital display, 1 °C increments setting and indication from – 20 °C to 40 °C with Pre-cooling Refrigerant: R134a. Power requirements: Single phase AC110V±10%, 15A. Single phase AC115V±10%, 15A. Single phase AC220V±10%, 10A. Single phase AC230V±10%, 10A. Rated voltage and Rated current: 110V 9.1A, 115V 8.7A, 220V 4.6A, 230V 4.4A. Power consumption and Heat output: 0.78kW 2.8MJ/h, Dimensions: 70(W) x 65(D) x 36(H). Certificates of Conformity: IEC 61010-2-020 CE Marking (AC220V and 230V Version) a)Micro Rotor. Cat. No. AT-2724M Multi-angle rotor 3 types of tubes, 2mL, 0.5mL and 0.2mLPCR can be used without adaptors. b) Fixed Angle Rotor Cat. No. RA-410M3 8 x 50/15mL Conical tube This rotor is not a tool-less rotor. c)Plate Rotor Cat. No. PT-21M PT-21M can do ethanol precipitation at 3,100xg d) Swinging Bucket Rotor Cat. No. ST-410M 12 x 15mL Conical tube.</p>	Qualified.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Centrifuge Machine Refrigerated 230 V 50 Hz, speed range of 16000 rpm, Pre-selection of running time from 10 sec to 99h 59min or continuous, RCF 24321 xg, Temperature control range –20 to +40°C, Operated on 220 Volts, Model Z366K, Hermle Made in Germany. Special Features: • Simple one handed operation. • Easy to program with gloves on. • Foil Keyboard. Permanent indication of Preset and Actual Values. Selection of speed in both rpm and g-force, with increments of 10. 10 acceleration and deceleration rates, possibility of unbraked deceleration. Pre-selection of running time from 10 sec to 99h 59min or continues. Quick-key for short runs. Specifications: Maintenance-free induction drive. Microprocessor with large LCD display. Motor driven lid lock. Automatic rotor identification system with over speed protection upon rotor insertion. Active imbalance-identification and -cut off (rotor-specific). A large variety of rotors and accessoires. Audible signal at the end of each run with several melody options. Noise level under 63 dBA (depend on rotor) . Manufactured according to international safety regulations, i.e. IEC 61010 Complete without Rotor operated on 220 Volts, Model Z366K, Hermle Made in Germany.</p> <p>ROTOR</p> <p>1-No. Angle Rotor capacity 10 x 50ml conical speed 9500rpm Cat No. 221.52V02 Hermle Made in Germany.</p> <p>1-No. Angle Rotor capacity 24 x 1.5/2.0ml speed 16000rpm Cat No. 220.87V09 Hermle Made in Germany.</p> <p>1-No. Swing Out Rotor capacity 2 x 3 MTP speed 4500rpm Cat No. 220.16V03 Hermle Made in Germany.</p> <p>1-No. Angle Rotor capacity 6 x 50 ml speed 13000rpm Cat No. 221.22V02 Hermle Made in Germany.</p> <p>Total</p>	Qualified.
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3.	M/S Talha Enterprises, Karachi	<p>75007224 Centrifuge Refrigerated Model SL8 230V Temperature Range -10°C to 40°C Pre-Cooling Function Yes, with direct button Refrigeration System CFC free Control System Microprocessor. Drive System Direct, brushless induction drive. Rotor Locking System Auto-Lock rotor exchange Imbalance Detection System SMARTSpin Programs 3 direct program buttons, plus 96 additional programs accessible via folder, all with alphanumeric program naming Pulse (Short) Run Yes. Acceleration/Deceleration Rates 2 (standard and soft) Centrifugation Chamber Brushed stainless steel Max Timer Range 9h, 59 min + continuous. Sound Level <56 dBA (with all rotor); <52 dBA (with MicroClick 24 rotor). Other Features • Certified1 ClickSeal biocontainment lids. Multilingual selection: English, Dutch, French, German, Italian, Russian and Spanish Max Power Consumption 750W Dimensions: Height (lid open) 70 cm (27.5 in) Height (lid closed) 32 cm (12.6 in) Width 46 cm (18.1 in) Depth 67 cm (26.4 in) Weight 71 kg (156 lb) Standards & Certifications Standards IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1 Certifications UL Listed / CE marked / IVD compliant3 / Certified1 biocontainment Swing Bucket Rotors Max Capacity 4 x 145 mL (with TX-150 rotor) Max Speed 4,500 rpm (with TX-150 rotor) Min Speed 300 rpm (with TX-150 rotor) Max RCF 3,260 x g (with TX-150 rotor) Fixed Angle Rotors Max Capacity 6 x 50mL (with HIGHConic III rotor) Max Speed 17,850 rpm (with MicroClick 24 rotor) Min Speed 300 rpm (with MicroClick 24 rotor) Max RCF 30,279 x g (with MicroClick 24 rotor) 75005715 Microclick 24x2 Rotor, 45°, Rmax 85 mm 01 971.00 Rotor Capacity (Places x Volume, ml) 24 x 1.5/2 Max Tube Dim (OxL, mm) 11 x 45 Max Speed RPM: 16,000, Max RCF (x g): 24,328. 75005706 MT-10 Swinging Bucket Rotor, 90°, Rmax 139 mm 01 1,035.00. Rotor Capacity (Places x Volume, ml) 4 Standard or 2 Deep well. Max Tube Dim (OxL, mm) n/a. Max Speed RPM: 4,400 Max RCF (x g): 2,576. 75005701 TX-150 Swinging Bucket Rotor, 90°, Rmax 144 mm 01 792.00. Rotor Capacity (Places x Volume, ml) 4x145. Max Tube Dim (OxL, mm) 50x100. Max Speed RPM 4,500. Max RCF (x g) 3,260. 75005703 50ml Conical Buckets (unsealed no adapter needed) set/4 01 set 699.00, Rotor Capacity (Places x Volume, ml) 8x50, Max Tube Dim (OxL, mm) 29.5x120, 75005736 50ml Conical or Skirted Tube 01 set 238.00, Rotor Capacity (Places x Volume, ml) 4x50, Max Tube Dim (OxL, mm), 29.5x120, Made by Germany, 12 month warranty</p>	Qualified.
4.	M/S World Wide Scientific Karachi	<p>CAT# MPW-352R REFRIGERATED HIGH SPEED CENTRIFUGE The MPW-352R model is a refrigerated, desktop laboratory centrifuge with Temperature range: -20°C ÷ +40°C. It find application in medical, biochemical, veterinary, industrial as well as other laboratories. The construction of the centrifuge is based on the broad experience of the MPW Med instruments company and its many years of cooperation with laboratories and medical institutions. TECHNICAL SPECIFICATIONS: Power supply: 230V, 60Hz Maximum capacity: 4x250 ml(1 L). Minimum speed: 100 min⁻¹ Maximum speed: 18000 min⁻¹ Maximum RCF: 30065xg Time range: 0 ÷ 99 hrs., 99 min, 59 sec; infinite, 1 sec interval Temperature range: -20°C ÷ +40°C. Safety: imbalance warning, lid locking during motor run, emergency lid lock release, motor thermal protection. ROTORS: 24X1.5/2 ml, 180003 RPM, 30,065 RCF 8x50 ml, 5,500 RPM, 4,227 RCF 2x3 MTP (Standard), 4,300 RPM. 2,397 RCF. FEATURES: With cooling, Start when preselected time is reached, Start when preselected temperature is reached, Initial cooling without/with centrifuging, cooling after centrifuging, precise temperature stabilization. Maintenance-free induction motor Modern software system. Large graphic LCD. 99 user programs 10 acceleration/ deceleration curves. Programming of multi-section acceleration/ deceleration curves. RPM/RCF adjustment. Centrifugal radius adjustment for samples (with automatic RCF correction). Effective centrifuging time calculation. Centrifuging time adjustment. Continuous operation mode HOLD. "SHORT" time operation mode. Changing parameters during centrifuging. Rotor identification. Automatic lid opening. Motorized lid lock. Centrifuging parameters recording - PC computer (USB). Menu language setting. Selected menu functions blocking. Password protection. Broad range of rotors and additional equipment, Memory of the last 10 working cycles. Manual adjustment of density of samples>1,2g/cm³ (with automatic maximum speed correction) Safety: Unbalance warning. Lid locking during rotor run. Emergency lid lock release. Motor thermal protection. M/s MPW-POLAND-Made in Europe</p>	Qualified.

5.	M/S Roghay Sons, Karachi	Table Top Refrigerated Centrifuge. Model Z326 K. Technical data max. speed: 18000 rpm. max RCF:23545xg. max. volume:4 x 100 ml. Speed range:200 - 18000 rpm. Running Time:59 min 50 sec / 10 sec. increments 99 h 59 min / 1 min increments. Dimensions (WXHXD):40 cm x 36 cm x 70 cm. Weigh:60 kg. Power Input: 660 W. Mfr. Hermle-Labortechnik, GmbH, Germany.	Qualified.
		Additional Accessories.	
		a) a) Micro rotor. Cat No. 220.87 V09, Capacity24 x 1,5 / 2,0 ml, Speed 15000rpm.	
		b) b) High speed Rotor Cat No.221.22 V02, Capacity 6 x 50 ml, Speed 12000rpm.	
		c) c).High Capacity Rotor Cat No.220.97 V04 Capacity 6 x 50ml Speed 6000rpm.	
d) d) Microtitre Plate Rotor Cat No. 221.16 V03, Capacity 2 x 3 Microtitreplates, Speed 4500rpm			

26	<p>Real Time PCR, Thermal Cycling System : BioRad, Eppendorf, MJ research, Stratagene or equivalent. 96-well block, Optical System CCD camera with halogen lamp excitation; OR LED, five-excitation and five-emission filters: Calibrated Dyes at Installation FAMTM/SYBR® Green, VIC®/JOETM, NEDTM /TAMRATM /Cy3®, ROXTM /Texas Red®, and Cy5®, Passive Reference Dyes ROX dye or any calibrated dye. Use of a passive reference dye is optional. Reaction Volumes 5-30µL 20-100µL, Sample Format Fast 96-well plates, optimized for 10 µl reactions, Peak Block Heating Rate 5.5°C 2.5°C, Temperature Range 4°C - 100°C 4°C - 100°C, Temperature Accuracy +/- 0.25°C of set point/display temperature, measured at 3 minutes after clock start, Temperature Uniformity +/- 0.50°C, 30 seconds after clock start, Software Specifications, Applications Comparative Ct, Standard Curve, Relative Standard, Curve, Allelic Discrimination, Plus/Minus, Dye Discrimination Multicomponenting algorithm, Multiplate Data Comparison Compare an unlimited number plates of gene expression assays .With original Company literature from principal company clearly verifying all specifications and user list and computer system with required software compatible with window 7 or 8. Warranty : One year from the date of installation and training Applied Biosystems, BioRad, Eppendorf, MJ research, Stratagene or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>PCR Real Time with Application Software, Model: Mini8 COYOTE Biotech, USA. Smart Tool, Lowe Cost, Personalize Care . Mini8 Real time PCR system is a robust, unique and as precise as any large scale apparatus. Our system provides you with precise test results quickly and cost effectively anywhere, anytime. Features: - Portable 12v DC energy efficient. User Friendly; Simple interface. Small Foot Print and Light: From desktop to laptop only 2.1 kg. High Sensitivity:As low as 1 copy. Sample Capacity: 8*0.2ml PCR tubes. Two Channels: SYBR//FAM, ROX/Taxes Red. Open System: Compatible with most commercial . Reagent Specifications:- Optical: Light Source: High power LED. Detector:Photodiodes, Thermology Parameters Heating / Cooling Models: Peltier. Ramping Rate (Max.): 3°C/s Thermal Uniformity: ± 0.2°C, Thermal Accuracy: ± 0.2°C, Thermal Range: 4-100°C, Sample Format: 8 wells. Operational. Reaction Volume: 10-150ul, Warm up Time:1min, Sensitivity of Detection: 1 copy. High Resolution Melt: Supported resolution to 0.5°C Multiplexing: Detect up to 2 Dyes simultaneously. 470/520nm (SYBR/FAM) and 565/625nm (ROX/Taxes Red). Physical Dimensions: 205x190x98mm (LxWxH). Net Weight: 2.1kg. Computer Configuration. PC Requirement: WIN2000, XP:WIN7:WIN8, Ambient Temperature: Operation Temperature: 15-30°C; Storage Temperature: 10-60°C. Environmental Requirement Ambient Humidity: Operation Humidity: 15-90 % Relative Power Supply: 12V, 10A. Consisting of Following Equipment to Make Real Time PCR in Perfect Working Condition. a) Heating and Chilling Dry Bath Model: H₂O³-75C/H₂OC³-100C. Temperature Range: 0-100°C (H₂O³-100, 0-75°C (H₂OC³-75C). Average Heating Rate:6°C/min (16°C to 60°C. Average Chilling Rate:3°C/min (60°C to 16°C) 1.5C/min (25°C 4°C). Display Precision: 0.1°C. Temperature Precision: ± 0.5°C, Temperature Evenness: ± 0.5°C. Operation Ambient Temperature: 8-30± 0.5°C. Working Area Dimension: 108 x 7mm. Dimension:185x185x90mm. Net Weight: 1.4kg b) Tissue Grinder Model: G50, Speed Adjustable speed ranging from 3000-8000rpm. Power Supply 12V DC, energy saving, c) Pipette, d) Mini Centrifuge. e)Magnetic Frame . f) USB cable & Software for Mini 8 Real Time PCR.</p>	Not qualified. Thermal block 8x0.2ml PCR tubes. No computer system.

2.	M/S Talha Enterprises, Karachi	<p>Real Time PCR, Ultrafast Labchip Real-Time PCR G2-3 Model: P-S-RP-23-101 12,350.00 01 12,350.00, The ULtraFast LabChip Real-time PCR G2-3 System includes a real-time PCR machine, plastic LabChips, and a LabChip case. It takes 15 min to perform 30 cycles of real-time PCR(SYBR Green) and 25 min to perform 40 cycles of TaqMan reaction with FAM probe. One reaction can analyze 10 samples. Features: • Ultra fast quantitative analysis. • Portable 5.5kg. • Plastic LabChip Channel-type. • Easy-to-use • User-friendly software. • High sensitivity and specificity. • Competitive instrument price and running Cost. Dimension WxDxH 212x256x232 mm. Weight 5.5 kg. Reaction Volume uL 12. Input Voltage AC 100-240 Free Voltage. Input Frequency 50-60Hz. Input Power 100W. Running Temp Range 40-110 C Temperature Accuracy +/- 0.3. Optima Operating Temp 15-40C. Optimal Operating Humidity 20-70% (Non Condensing). Operating System USB, Windows 7. Light Source Power LED Wave Length 430 ~490(FAM) nm. Light Power 5 W. Detection Sensor CMOS Sensor. Excitation/Emission Filters Ban Pass Filter (nm). a) P-M-RP-C0-006 Labchip 6 Channels PK/50 90.00 01 90.00. b) P-M-RP-C0-010 Labchip 10 Channels PK/50 130.00 01 130.00. c) P-M-RP-W0-018 19 UWELLS Pk/50 235.00 01 235.00. d) P-S-RP-23-901 Labchip Case 125.00 01 125.00. Made by Korea</p>	Not qualified. not equivalent as desired.																		
3.	M/S World Wide Scientific Karachi	<p>CAT# TCR0096. PIKOREAL REAL-TIME PCR SYSTEM(96-WELL) <u>FEATURES:</u> PikoReal® Real Time System is light, quite and smallest footprint. Compatible with standard multichannel pipettes, reagent dispensers and automated liquid handling systems. Extremely low energy consumption, durable design and suitable field application. Precise temperature control. Five optical channels facilitate multiplexing. Stand alone or PC control. Reduced plastic and reagent consumption. TECHNICAL SPECIFICATIONS: THERMAL BLOCKS. Block Formats: 96 Wells. Sample Volume: 5 - 20µl Consumables: 96 Wells Piko PCR Plates. Max Heating Rate:>5°C / Sec. Max Cooling Rate: 4.5°C / Sec. Temperature Range: 4-99.9°C. Temperature Accuracy: ±0.2°C. Temperature Uniformity: ±0.3°C at 95°C. HEATED LID. Temperature Range: 30 - 110 °C. Control: Automatic Temperature and Pressure Setting. OPTICS: Excitation:5LEDs. Excitation Range: 475 – 640 nm. Detection: CCD. Detection Range: 520 – 740 nm. DETECTION CHANNELS</p> <table border="1" data-bbox="576 1375 1174 1621"> <thead> <tr> <th>Excitation(nm)</th> <th>Emission(nm)</th> <th>Pre-Calibrated Dyes</th> </tr> </thead> <tbody> <tr> <td>475-500</td> <td>520-550</td> <td>FAM, SYBR Green</td> </tr> <tr> <td>515-535</td> <td>557-590</td> <td>HEX, JOE, Yakima Yellow</td> </tr> <tr> <td>570-590</td> <td>615-650</td> <td>ROX, Texas Red</td> </tr> <tr> <td>600-640</td> <td>666-740</td> <td>CY 5</td> </tr> <tr> <td>475-500</td> <td>520-590</td> <td>SYBR Green for HRM, Single Plex FAM, SYBR Green</td> </tr> </tbody> </table> <p>Multiplex: 475 – 640 nm, HRM: Yes, Dynamic Range: 10 order of magnitude. Scan time for 4 Multiplexing Channels:<10 sec SOFTWARE. Analysis Modes: Absolute quantification, Relative Quantification, Melt Curve Analysis, Allelic Discrimination. SYSTEM. Operating Systems: Windows XP, Windows 7, Communication: Ethernet, Up to 10 instruments can be operated from a single PC. Power Usage: 200W Maximum. Dimensions (W x D x H): 300 x 230 x 310 mm. One year warranty and original company literature and computer system with required software M/s THERMO SCIENTIFIC</p>	Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes	475-500	520-550	FAM, SYBR Green	515-535	557-590	HEX, JOE, Yakima Yellow	570-590	615-650	ROX, Texas Red	600-640	666-740	CY 5	475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green	Qualified.
Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes																			
475-500	520-550	FAM, SYBR Green																			
515-535	557-590	HEX, JOE, Yakima Yellow																			
570-590	615-650	ROX, Texas Red																			
600-640	666-740	CY 5																			
475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green																			

4.	M/S Roghay Sons, Karachi	Real Time PCR Thermal Cycler, Rotor-Gene Q 5plex Platform, Supplied with 1.Real Time PCR 5 channels(Green, Yellow, Orange, Red, Crimson). 2.Computer. 3.Software. Model Qaigen, Switzerland , Cat # 9001570, Instrument Rotor-Gene Q 5plex platform, Description: Rotor-Gene Q 5plex platform, Real-time-PCR cycler with 5 channel (green, hellow, orange, red, crimson), laptop computer, software, accessories: Includes 1-year warranty on parts and labor, installation and training included. Warranty of the system: Warranty period will be 1-years with part and Labour.	Qualified.
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27	2KVA online UPS with Two hour back-up Branded. uninterrupted power supply capacity 2000VA/1400W, transfer time from invert to bypass zero in built batteries 8x12V 7Ah, Stabimatic (ONL-2000B) or exact equivalent. branded & imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Habib & Sons, Hyderabad.	Model ONL-3000, Warranty one year, STABIMATIC UK, Capacity 3000VA, Transfer time from inver to bypass zero. built in batteries 8 x 12v 7 Ah, Long back-up 2 hours.	Qualified.
	M/S Burraq Business Corporation Hyderabad.	2KVA online UPS with Two hour back-up Branded. uninterrupted power supply capacity 2000VA/1400W, transfer time from invert to bypass zero in built batteries 8x12V 7Ah, Stabimatic	Qualified.

28	Ultra low upright freezer -86°C, Sanyo, Revco, Thermo or equivalent. Adjustable temperature range from -10°C~ -86°C with an increment of 1°C, Interior Volume 18-20cu.ft, Microprocessor temperature control, Digital temperature display, Malfunction alarm includes audible and flashing alarms for high temperature, low temperature, incorrect voltage setting, sensor failure ,condenser efficiency defect, high ambient temperature, and power failure, Adjustable high and low temperature alarm set points, Multiple shelves for storage of various sizes for samples, Safety lock to prevent unauthorized access, Sanyo, Revco, Thermo or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Digital Ultra Low Temperature Freezer Upright Type Simplified Freezing System Model: WUF-700, WITEG, GERMANY. <u>Technical Specification:</u> Capacity: 714 Lit., Freezing System: Simplified Hi-efficiency freezing system (SHFS™) Temp. Range: -86°C ~ -65°C at room Temperature of 30°C and humidity of 70% Temp. Sensor: PT100. Compressor: Hermetic Type. Condenser Type: Block Controller, No Pin, Filter free Mechanism. Refrigerant: HFC (CFC Free Refrigerant System) . Controller & display: Full Touch screen TFT LCD Controller. Shelves: Included 3 Stainless steel shelves. Max. Qty of Racks: 24pcs of 20 (4 x 5) Placed Rack (RFU50). Material Internal: Stainless Steel (#304). Material External: Powder coating steel plate. Material Inner Door: Powder coating steel plate (#304). Chamber Dimension (w x d x h) Internal (mm): 880 x 620 x 1310 Power Consumption: 1.6 kW Power Supply: 220 Volt, 50/60 Hz	Qualified.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p><u>Ultra Low Temperature Freezer (Upright Type)</u> The Panasonic MDF Freezers are Ultra Slim, space saving and has improved energy consumption. The Panasonic MDFSeries has a microprocessor control system, which is secure, easy to use and comprehensive. Set point, alarm parameters and self-diagnostic functions are accessed through a tamper-resistant keypad protocol. Control inputs are managed with convenient push-ad buttons on a unitized, sealed control overlay. Features: Panasonic V.I.P. technology achieves up to 30% more storage capacity. A newly developed refrigeration system and the structure offer a quiet experimental environment. Two independent and insulated inner doors with gaskets prevent Leakage. Safe operation with Status Alert continuous condition monitoring(notifies of potential problems before they happen). The inner doors are removable for cleaning and defrosting. Power failure alarm lamp and buzzer. Audible and visual alarm on High and low temperature. Technical Specifications: Temperature range: -50°C to -86°C. Interior Dimensions: (WxDxH) 490 x 600 x 1140 mm. Effective capacity: 333 Liters / 11.8cu.ft. Shelves:3, Stainless steel. Compressor: Rotary type (high stage side), Hermetic type (low stage side) Alarm system: High/low Temperature, Power failure,Filter check, Self diagnostics, Door check, Remote alarm contact Accessories: 1 set of keys, 1 scrapper, Complete Model MDF-U33V, Panasonic (New Name of Sanyo)Made in Japan.</p>	Qualified.
3.	M/S Talha Enterprises, Karachi	<p>TSE Ultra-Low Temperature Upright Freezers Model: TSE400V, Temperature Range: -50°C to -86°C. Capacity cu. ft. (liters) 23.0 (651), 2 in. Box Qty. 400, Electrical 230V / 50Hz, Amps / Breaker (Plug) 12/15 (European), Maximum Shelf Weight lbs. (kg) 125 (57), Interior Dimensions H x W x D in. (cm) 51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3) Exterior Dimensions H x W x D in. (cm) 77.9 x 40.8 x 38.9 (197.9 x 103.6 x 94.0) Shipping Weight lbs. (kg) 879 (399). Microprocessor control. Power Management System. Single-hand operation. Easy-to-remove, washable filter. Secure inner doors. Rugged construction for everyday use. Simplified installation. Optional CO2 or LN2 back-up. Optional chart recorder Made by Germany</p>	Qualified.
4.	M/S ScienTec Karachi	<p>Freezer -86 °C, Model: UUS-439B-1, Temperature Range: -50 to -86 °C, Capacity: 439.7 L, Make: ESCO, Singapore</p>	Not qualified. capacity lower than desired.
5.	M/S World Wide Scientific Karachi	<p>CAT# AV050M, ULTRA LOW TEMPERATURE UPRIGHT FREEZERS - 86°C. Kaltis® ultra low temperature (ULT), -86°C laboratory freezers are exceptionally energy efficient, quiet running and reliable, that combine the highest reliability and superior performance with cost-effective operation and innovative features. These ultra-low temperature freezers safeguard your precious samples with advanced technology platforms, maximum temperature recovery, microprocessor controls and high-quality construction. TECHNICALS SPECIFICATIONS: Capacity (L): 499 Lit (17.6 Cu. Ft). Voltage (V): 230 Frequency Hz: 50~60. Amps: 7.5, Interior: 60x64.5x129 Exterior: 85x91x196, M/s KALTIS-USA.</p>	Qualified.

29	<p>TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Qiagen, Ideka Rika japan, or equivalent. Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Runtime of 1 second to 1 hours 59 minutes, Display and control panel for speed and time, 220-240 V, 50/60 Hz, Accessories, Stainless steel beads –5 mm (200nos), Stainless steel Baeds – 7 mm (200nos), Beads acid- washed , 150–600µm (20grms) Single Bead dispenser, 5mm, Capacity to hold ~100 beads single bead dispenser, 7 mm capacity to hold ~50 bread suitable 2 ml micro centrifuges tubes (1000nos) TissueLyser Adapter Set 2 x 24 (2 sets of adapter plates and 2 racks for use with 2 ml micro centrifuge tubes on the TissueLyser II), TissueLyser Adapter Set 2 x 96 (2 sets of adapter plates for use with Collection Microtubes (racked) on the TissueLyser II), Qiagen, Ideka Rika Japan, or exact equivalent.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Roghay Sons, Karachi	Tissue Lyser, Model Tissue Lyser LT Supplied with 1.Tissue LyserLT. 2.Tissue Lyser adapter, 12 tube. 3.Stainless Steel Bead, 5mm. 4.Sample tube RB 2ml(1000). 5.Tissue Lyser Single Bead Dispenser. Mfr. Qaigen, Switzerland	Qualified.
2	M/S Talha Enterprises, Karachi	TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Rika Japan	Qualified.

30	<p>Microplate Shaker, Microplate orbital shaker speed range:200-1500 rpm (digital) Speed increment:10rpm plate holding: 4 plates, Operating temp:4-70°C, Fisher, Corning or exact equivalent imported.</p>
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<u>Microplate Incubator /Shaker, Cat. No. 130000-2 BOEKEL SCIENTIFIC, USA.</u> 2 year warranty Accommodates Std. 96, 384, and 536 Plates Specifications: - Product Dimensions W x D x H (in/cm): 25.4cm (10") x 25.4cm (10") x 10.2cm (4")H. Orbit Diameter: Approximately 1mm. Mechanism: Rotating counterweight. Temperature Range: Ambient to 40°C. Temperature Resolution: 0.1°C. Temperature Uniformity: Better than ± 0.4°C with cover. Warm Up Time: Typically 15 minutes. Timer Range: 1 second to 99 min. 59sec. Timer Resolution: 1 second. Mixer Speed: 575 to 1500 RPM (575, 625, 675, 750, 875, 1000, 1200, 1500 RPM). Pulse Operation: 1500 RPM for 3 seconds. Electrical: 230VAC (50/60 Hz) 19W	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	<u>Microplate Platform Shaker Vibrating</u> Vibration motion continuously adjustable up to 1350 rpm, vibration orbit 1.5 mm, with built in process timer up to 120 minutes, Model Titramax 100, Heidolph Made in Germany.	Qualified.
3.	M/S Talha Enterprises, Karachi	Microplate Shaker Microplate Shaker 4 Plate Model: 270340. Compact with low profile and small footprint. Reliable, regulated shaking for two or four microplates. Simple screw attachments allow quick and easy fitting of any standard depth 96- or 384-well plates, holding the plates. securely in place. LCD Display. Power pac is UL, CSA and CE approved, CE marked. Speed 250 to 1000 rpm. Orbit 2 mm, Timer (with auto shut off) 1 min to 96 hrs, Time setting resolution 10 sec, Product Dimensions W x D x H 175 mm x 185 mm x 90 mm, (7" x 7.25" x 3.5") Power 12 V dc, 0.5 A via 115/ 230 V AC adapter Shipping Weight 4.5kgs. (10 lbs.) Made by Taiwan.	Not qualified. Not equivalent as desired.

4.	M/S ScienTec Karachi	Microplate Shaker , Model: 6781-4, Make: Corning, Key features: The Corning LSE Digital Microplate Shaker features digital control of shaking speed and run time. A single control knob is used to set parameters, and values are shown on a large 3-digit display. A sturdy base encloses the motor for quiet, vibration-free operation. The included stainless steel platform accommodates up to 4 microplates (standard or deep well) and the shaker is safe for use in temperature controlled environments from 4 to 65°C. Large capacity - process up to 4 microplates 3 mm orbit for resuspending, homogenizing or vortexing Large digital display with single-knob control Suitable for cold room or incubator use	Qualified.
5.	M/S World Wide Scientific Karachi	CAT# MX-M , MICROPLATE MIXER, The MX-M Microplate Mixer is ideal for mixing/ shaking 96 well microplates. The mixer's high speed and small orbit combine to offer true vortexing action in each well of the microplate for complete and uniform mixing. FEATURS: Compact Design Ideal for 96 Wells Plates TECHNICALS SPECIFICATIONS: Speed Range: 0-1500 rpm. Orbital diameter: 4.5mm. Operating temperature range: 5 - 40°C, Maximum humidity: 80%, Overall dimensions: 10"L x 6"W x 3"H Electrical supply: 220V, M/s SCIOGEX-USA	Not qualified. Not equivalent as desired.

31	Minipore Ultrapure Water purifier system, Applications: Up to 70L per day. Pyrogens (Endotoxins), EU/mL: < 0.001 Water Delivery, L/min: At E-POD: up to 2.0, At Q-POD: 0.05–2.0 Product Water Resistivity, MΩ·cm (@ 25 °C): Pure Water: > 5, Ultrapure Water: 18.2 , Feed Water Nature: Tap water, Water used for PCR or HPLC, Milli Q, Aurora Instruments, RSD or exact equivalent.		
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Water Purification System, Type 1 water Model: Ultramatic: GRUF WasserLab, Spain GR UF model: Ultrafiltration cartridge is included, producing Ultrapure water (pyrogen and nuclease – free water) suitable for molecular biology, nanotechnology and genomics applications Specification Output: Pure water Type I according ASTM D1193. Input: Type II water. Production: 1,1 l / min, Flow rate: 1.1 l/min, Conductivity: 0.055µS/cm, Resistivity: 18.2 MΩ·cm TOC: < 10 ppb, Bacterial count: < 1cfu/ml. Particulates: (> 0.2µm/ml) < 1 part/ml. Endotoxines: < 0.001 EU/ml. Feed water: Type II water (Wasserlab Ecomatic/Autwomatic Model). Osmotized water, Deionized water, Distilled water Dimensions (Centimeters): ULTRAMATIC equipment: 52 x 25 x 48 cm (Height/Width/Depth). Weight: 12 Kg Ultramatic GRUF Consumables a) Resin Type I Pack (Ultrapure) Cat. No. PCK405. b) Foto oxidation Lamp Replacement Cat. No. 80280. c) Final Filter 0,2 Micron Cat. No. 20640, d) UF Cartridge Cat. No. 20770.	Qualified.
2.	M/S Talha Enterprises, Karachi	Ultra Water Purifier Model SCSJ-X1 BIOBASE CHINA	Not qualified. Not equivalent as desired.

3.	M/S World Wide Scientific Karachi	CAT# B30-BIO, WATER PURIFICATION SYSTEM Adrona water purification systems provide ultrapure and pure water for laboratory needs. Quality of water meets requirements for Grade I water of ISO 3696 standard and corresponding ASTM and CLSI standards. APPLICATIONS: Water resistivity: 18.2 MΩxcm Water conductivity: 0.055 μS/cm Total organic carbon (TOC) level: <2 ppb. RNase: <0.01 ng/mL, DNase: <4 pg/μL. Bacteria: <1 CFU/mL. Endotoxin: <0.001 EU/mL. Particles >0.22 μm: <1/mL. Nominal flow, pure water (to storage tank): 10 L/h. Nominal dispense flow, ultrapure water: 2 L/min. Nominal dispense flow, pure water: 4 L/min. Deionization module life: 1 m ³ . Dimension (WxDxH), cm: 35x54x60. Water Storage tank: 25 L, Feed water conductivity: <900 μS/cm, M/s ADRONA-LATVIA MADE IN EUROPE.	Qualified.
4.	M/S Roghay Sons, Karachi	ULTRAPURE WATER PURIFIER, Model 750-1D. The 750 Series is a configurable system designed to meet the requirements of any laboratory accommodating water supply from a potable source. The comprehensive nature of the 750 series ensures suitability to different Industry sectors. Both RO (reverse osmosis) and UP (ultra pure) grades of water can be produced to varying degrees of Purity dependant on the intended use of the water. TYPICAL APPLICATIONS: General Laboratory Analysis. Preparation of Stock Solutions. Washing and rinsing of Glassware. Analysis of Micro-Organisms. Cell Culture. DNA/RNA tests. FEATURES & FUNCTIONS. 1.CE Certified. 2.Products produced to European standard. 3.Auto Calibration for Water Purity. 4.Hourly re-purification cycle. 5.Automatic re-purification cycle set by Purity limit. 6.Set levels for filter change warning. 7.Feed Water Tap Water. 8.Product flow rate 18L/H. 9.Suitable for Molecular Biology application, Mfr. Pg-Instrument, UK	Qualified.

32	Digital bench top timer , Time count down from 24 hour to 1 second in one second increments. For bench use, can display countdown, stop watch or time of Day. Alkaline Battery Fisher, Carl Roth or exact equivalent imported.
33	UV protective Goggles, Fisher, Roth or equivalent. UV protective eye wear light weight, Unilens Style adjustable temple length, duo flex confort cushion antifog, antiscratch/ anti UV coating, meet ANSIZ87.1-2010 and CAS Z94.3 eye ware requirement, Fisher, Roth, USA, UK Germany or exact equivalent imported.

No firm offered the technical specification.

34	Digital Room Thermometer, Measuring temperature range:-18-+72°C Clock, , Fisher, Roth or equivalent. Wall mounting Digital thermo hygrometer to monitor relative humidity and temperature in laboratories and offices. Digital thermometer selectable to °C or °F range: -18-+72°C. Relative humidity range: 20-100%RH, 3 digit LED sensor, 1.5V AA battery. Oakton, USA, UK or exact equivalent
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S AL-Beruni Scientific Store, Hyderabad	Model HTC 1, Temperature range: Temperature: -50 □ +70°C (-58 □ +158°F), humidity range 20% □ 99% RH Resolution: temperature: ± 1°C (1.8°F) Power supply: 1.5V (AAA size) x1, Product dimension: 100x108x20mm, Weight: Approx. 160g, Storage condition: -20oC □ 60oC , 20 □ 80% RH Made in China.	Not qualified. Not equivalent as desired.

35	Deionizer, battery operated with disposable cartridges. Wall mounting, 90 liters/hour high purity water, built in water quality meter. Disposable cartridge Battery: 9V, ELGA or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Deionizer 10 L, Model: DE7001, WasserLab, Spain <u>Specification:-</u> Mounting Output: Pure water Type II (analytical grade) according ASTM D1193. Input: Tap water. Production: 90ltr./h. Purification process control: By microprocessor. Installation requirements: 220V AC + water supply (≤ 3 m. distance / ≥ 2 bar pressure). Measures and weight: - Deionizer 200 x 540 mm (Diam x H) / 12 kg. - Conductivity meter 175 x 80 x 130 mm (WxDxH)- Wall. Installation Requirements. - 220V AC socket. grounded. - Take water nearby (maximum 2 meters) with a minimum pressure of 2 bars and a threaded $\frac{1}{2}$ " male thread gas. - Minimum inlet water pressure: 2 bars. - Maximum inlet water pressure: 8 bar.	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Deionizer single cartridge, wall mounted to deionize water with built in conductivity meter, Output 45 Lit/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts, Model DI 425 TKA Made in Germany.	Qualified.

36	Distillatory glass 5-litre/h (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 5 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Water Distillation Apparatus, Model: BMS-4CE Biotechnology Medical Services K. Canada Inc. <u>Specifications:</u> Distillate Output: 4litres per hour single distilled. Power supply requirement: 220VAC. 50/60Hz.	Not qualified. not equivalent as desired.
2.	M/S AL-Beruni Scientific Store, Hyd:	4 liter Model favorite Europe.	Qualified.
3.	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710, Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. TECHNICAL SPECIFICATIONS: Out Put: 4 L, Wattage:3000 W, Voltage: 230 V, Base Dimension: 55 x 15 cm. M/s POBEL-SPAIN.	Qualified.

37	Pipetting aid, auto pipette filler (5-10ml), battery operated. Color, white, Battery type: Lithium ion Dispensing speed:8, Filter type 0.45 micron standard. Universal chargeable stand, wall mounting holder Nose piece holder: Autoclavable Silicone Rubber for use with graduated and volumetric glass and plastic serological pipettes. Thermo, Carl Roth, GMB or exact equivalent imported.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Electronic Macropipette, Cat. No. 936.10E, SOCOREX, SWITZERLAND. ACURA electro 936, electronic macropipette, 4.8V, 0.5 - 10 ml, initial package with 2 battery packs, pipette charging stand, 100-240V power supply, Europe style plug, Qualitips sampling <u>Specifications: -</u> Volume Range: 0.5-10mL, Division: 0.05 mL, Tip Style: 10ml	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Pipetter/Macroman, Unique Comfort & Controlled Pipetting, For all plastic & glass pipettes from 1 to 100mL, Continuously adjustable speed: 25mL in 4sec, Environmentally friendly NiMH battery for 8 hours operation, Precise & smooth dosing button control: drop-by-drop, gravity mode , and motorized speed. Safety & easy maintenance. All liquid contact parts are autoclavable, Easy-to-replace filter. Replaceable batteries, Operated on 220Volts, Complete, Cat No. F110751, Macroman, Gilson, Made in France.	Qualified.

3.	M/S ScienTec Karachi	Electronic Pipetting Control Device Pipetting Aid/ Controller for 1 To 100ML Pipettes (Cat # 4091), Make: Corning.	Qualified.
4.	M/S World Wide Scientific Karachi	CAT# 74020002, LEVO PLUS MOTORIZED PIPETTE FILLER, 1-100ml TECHNICAL SPECIFICATOINS: Aspirate Speed: 8, Dispense Speeds: 8 Gravity Dispense Battery: Lithium-Ion. Battery Service Life: More than 8 hours of intermittence Use, Charging Time: 2-3 Hours, Pipette Types: Glass or Plastic Pipette (0.1-100 ml) Pasteur Pipettes, Filter: 0.45 µm Hydrophobic, M/s SCIOLOGEX-USA.	Not qualified. Not equivalent as desired.

38	Laminar Flow cabinet Horizontal 5'. Table top Horizontal Laminar Air flow workstation. 5ft (1.5m) External dimension: (1645x797x1105) WxDxH (mm), Internal dimension: (1490x625x575) WxDxH (mm). One dimensional air flow, constant velocity of 90fpm. Hepex Zero Leak Airflow system, Florescent lighting, protective grill, glass disposable prefilter Germicidal UV light, Vinyl curtain- front closure for UV light, stainless steel 18guage body and workzone, side walls; UV absorbing tempered glass 5mm 3years warranty, NuAire, Esco, USA, UK, Germany or exact equivalent.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Horizontal Laminar Airflow Cabinet Model: NU-201-530, NUAIRE INC., USA. AireGard ES (Energy Saver) NU-201 Table Top Horizontal Airflow Workstation The AireGard ES 201 Horizontal Laminar Airflow Workstation provides a HEPA filtered clean work area for laboratory appliances, microscopes, pipetting, compounding sterile drug preparations or IV admixture, or any applications requiring a clean air environment. Specifications - Nominal Size: 5 ft. (1.5 m) Exterior Dimensions (W x D x H) [mm]: 62 x 32 x 52 (1575 x 813 x 1321), Interior Dimensions (W x D x H) [mm]: 58 ¾ x 20 x 28 ¾ (1492 x 508 x 721).	Qualified.
2.	M/S Talha Enterprises, Karachi	Horizontal Laminar Airflow Cabinet Model: NU-301-530E, HEPEX™ Zero-Leak Airflow System Clear Top / Side Acrylic Panels Textured Powder Coat, Urethane Finish, Smooth White Formica™ Work Surface. Front Maintenance. Fluorescent Light Protective Fiber Grill, Fiberglass Disposable Prefilter Full Instrument Panel. Minihelic Gauge. 115 VAC, 60 Hz, single phase. 8ft., 3-wire Grounded Flexible Power 301530M434 S/S Work Surface with PCV Core Ultraviolet Light 230V Vinyl Curtain and Interlock, 301M354 Feet: Leg Levelers Included, 301M181 Seismic Suds Included, NU-9700-05 Wood Crating Made by Taiwan	Qualified.
3	M/S ScienTec Karachi	AirStream Horizontal Laminar Flow Clean Bench 5ft. with support stand, Model AHC-5D1/AHC-6D1 5ft./6ft. Make: ESCO, Singapore, Key Features: Sentinel™ Microprocessor Control System. Soft touch controls for blower, light, outlet and UV are easy to clean. ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are superior to HEPA filters. ULPA filters last as long as Conventional HEPA filters and have similar replacement costs. Esco ISOCIDE antimicrobial coating on all painted surfaces.	Qualified.
4.	M/S World Wide Scientific Karachi	CAT# BBS-H1800, HORIZONTAL LAMINAR AIRFLOW CABINET TECHNICAL PECIFICATIONS: Display: LCD Display. HEPA: HEPA filter with efficiency of 99.997% at 0.3 micro. Dust: < 3.5 Granule / L for >0.5 µm Noise Level: <60db. Airflow Velocity: 0.3-0.5 m/s Vibration Level: <5 µm. UV Lamp: 30 W*1. Light: 28W*1. Front Window: Motorized. Pre-Filter: Polyester fiber, washable. Work Surface Height: 720 mm. Work Material: Stainless steel External Size: 1800mm*825mm*2010mm (W*D*H). Internal Size: 1700mm*500mm*570mm (W*D*H). Standard Accessory: Fluorescent lamp, UV lamp 2, Base Stand, Gas Tap Water Tap and Socket 2. Power Supply: 220V M/s BIOBASE	Qualified.

	Furniture and Fixture.
39	Cupboard/Drawer deodar frame 4'.9"x2'.3", lasani board 4 drawer high quality lock & handle

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Lasani wood, Best quality, Durable No moist, dry, Deemak Free wood, Rohira tree, smooth.	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Cupboard / Drawer Deodar Frame 4'.9" x 2'.3" lasani board, Cupboard made in Deodar frame with sliding Door , size: L=4'.9" x H= 2'.3" Made in waterproof lasani lamination Malaysia. It is free of termites (Dimak) Colors are available on customer's demand.	Qualified.
		Drawer size :width 16" x Height 6"x depth 18".Made in waterproof lasani lamination having 18 SWG steel channel with best quality handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	Qualified.

40	Cupboard/Drawer 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality lock and handle.
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Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Low weight, high strength excellent corrosion resistance, good thermal superior, malleability, different colors super fine quality best quality lock and handle.	Qualified.
2.	M/S Habib & Sons, Hyderabad.	Cupboard size: L=4'.9"xH=2'.3" made in lucky Aluminum frame. boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm fiber glass will be fix in windows. Colors are available on customer's demand.	Qualified.
		Drawer box size: L= 17"x H= 20".Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(03) drawers in each of cabinet. It is free of termites (Dimak), Colors are available on customer's demand	
		Cupboard size: L = 4'.9" x H= 2'.3" made in lucky Aluminum frame.boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm Aluminum steep will be fix in windows. Colors are available on customer's demand.	Qualified.
		Drawer's box size: L=17" x 20"Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
Central Veterinary Diagnostic Laboratory
Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department,
Government Of Sindh, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research) Sindh, Hyderabad.

2. Cost of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First aid material, Trial Treatment Medicine and Feeding for Experimental Animals.

Of the Nineteen (19) firms, sixteen (16) firms participated in the tender:

1	M/S Scientific Technical Corporation (Pvt.) Lahore
2	M/S I.K. Enterprises, Hyderabad
3.	M/S Orison Corporation, Hyderabad
4	M/S Lab Care Karachi.
5	M/S World Wide Scientific Karachi
6	M/S Shameel Enterprises, Hyderabad
7	M/S AL-Beruni Scientific Store, Hyderabad
8	M/S Talha Enterprises, Karachi
9	M/S China Medical Store, Hyderabad
10	M/S Gul Rays Enterprises, Hyderabad.
11	M/S Musaji Adam & Sons, Karachi
12	M/S Burraq Business Corporation, Hyderabad
13	M/S Choice Enterprises, Hyderabad
14	M/S S.A. Enterprises, Hyderabad
15	M/S Cyber Pakistan Business, Hyderabad
16	M/S Lucky Brothers, Hyderabad

1.	PPR competitive ELISA Ab Diagnostic reagent kit and plates for multi species 04 plates (484 samples) ID Vet or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	1 kits(4 plates/384 samples) Cat# BYS113374B, TRANS UAE, (for research not for diagnosis)	Not qualified.
2	M/S S.A. Enterprises, Hyderabad	ID Screen® PPR Competition ELISA Model: PPRC-4P, Packing 1 kit (4 plate/384 samples) ,Manufacturer ID VET - France	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	PPR competitive ELISA Ab Diagnostic reagent kit and plates for 04 plates (384reactions) ID screen ID Vet France Cat No.PPRC,4P.	Qualified.

2.	CCPP ELISA antibody detection reagent kit with ELISA plates for 100 serum of caprine/ovine, AHVLA or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	CCPP ELISA antibody detecton reagent kit with ELISA plates for 100 serum of caprine/ovine Packing 1 kit(for 100 serum Manufacturer AHVLA scientific UK	Qualified.

3.	Brucella Rose Bengal stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella abortus antigen direct test Make USA Packing 5ml	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Brucella RBT Antigen Model V2001, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	Brucella Rose Bengal stained Antigen suspension, 10ml Lilli Test RBT Antigen Lillidale UK Cat No.V2001.	Qualified.

4.	Brucella mellitensis stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella mellitensis antigen direct test , Make USA, Packing 5ml.	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Brucella mellitensis tained antigen Model V-2011, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	Brucella mellitensis positive serum, freeze dried 2.5ml Lillidale Diagnostic UK Cat. V2011.	Qualified.

5.	Brucella AB ELISA kit with plates (Bovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	1 kits(4 plates/384 reaction) cat # BYS123245B, TRANS UAE, (for research purpose only)	Not qualified.
2	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No.10-2700-10, Format Strips Plates:10, Tests:960, Samples:920 Made by Sweden	Qualified.
3	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Qualified.
4	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Qualified.

6.	Brucella AB ELISA kit with plates (Ovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	1 kits(4 plates/384 reaction) cat # BYS123248B, TRANS UAE, (for research purpose only)	Not qualified.
2	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA O/C Article No. 10-8200-02, Format: Strips, Plates:2, Tests:192, Samples:184, Made by Sweden, Svanova.	Qualified.
3	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Qualified.
4	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Qualified.

7.	Brucella milk ring test antigen vial 100ml (MRI),USA, France, UK or exact equivalent Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Brucella abortus Milk Ring Test (MRT) antigen Model: RAA0048, Packing Vial 100ml, Manufacturer AHVLA Scientific - UK	Qualified.
2	M/S Cyber Pakistan Business, Hyderabad	Brucella abortus Milk Ring test (MRT) antigen AHVLA Scientific, Uk formerly VLA UK 100ml, Cat No.RAA0048.	Qualified.

8.	Brucella milk ELISA reagent kit with plates. Brucellosis milk indirect ELISA, Diagnostic reagents and plates for B. abortus in Bovine milk 4 plates (384 reaction) Idexx USA, UK, France or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No. 10-2700-10, Format:Strips, Plates:10, Tests: 960, Samples: 920, Savanova Made by Sweden	Qualified.
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Milk Indirect, Model: BRUMILK-4P, Packing 1 kit (4 plate/384 samples), Manufacturer ID VET - France	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Milk Indirect, 4 plates, 384 reaction ID Vet France Cat No.BRUMILK-4P .	Qualified.

9.	Tuberculosis test antigen(Tuberculin Avian & Mammalian) 5ml vial imported, PPD (PPD A&B) Tuberculin intra dermal test for Bovine tuberculosis 500 reaction UK, USA or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Bovine tuberculin PPD Model: PPDB, Packing Vial (5ml/500 reactions), Manufacturer ID VET - France	Not Qualified.
2	M/S Cyber Pakistan Business, Hyderabad	In vitro cell activation pack for 5000 reactions containing avian and bovine tuberculin PPD and mitogen (pokeweed), Mitogen is used as a positive activation control ID Vet France Cat No.PPDPACK, One Pack.	Qualified.

10.	Tuberculosis antibody test kit antibody test. BTB Ab ELISA diagnostic reagent kit with Microplate, 480 Wells/kit, UK or exact equivalent.
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No firm offered the technical specification.

11.	CMT (California Mastitis Test) kit with reagents litre bottle, ready to use liquid, Bovi-Vet Denmark or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyd	Imported as per specification.	Not qualified. specification not provided.
2	M/S S.A. Enterprises, Hyderabad	CMT California Mastitis Test kit with reagents litre bottle, ready to use liquid, Minimum order for 24 bottles , Packing 1 litter Bottle, Imported	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	CMT (california Mastitis Test) kit with reagents litre bottle, Cat No.497101 CosAgri UK.	Qualified.

12.	Penside Rabies Rapid diagnostic device for detection of Rabies antigen in ruminant saliva /tissue fluid of brain 10test/kit , UK or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	Rapid Rabies Ag Test kit 20 tests/kit, Model: VR-1005 Packing Kit (10 tests/kit) Manufacturer Lillidale Diagnostics-UK	Qualified.

13.	Zeihl-Neelson Stain Kit. Containing one 250ml bottle each of TB Carbofuschin, TB Decolourizer solution and TB Methylene Blue BD Difco, Merck or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Z.N Stain Kit. Bottle Make Wellcosol, Packing 3x500ml	Qualified.
2.	M/S Lab Care Karachi	kit(3*250ml Bottle of each reagent)	Not qualified technical specification not provided

14.	Sheep pox/ Goat Pox antigen ELISA diagnostic reagent kit with plates.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Lab Care Karachi	sheep pox/Goat pox antigen EUSA Research kit with plates 96 Test Cat # BY126616B, TRANS UAE,	Qualified.

15.	Camel pox antigen ELISA diagnostic reagent kit with plates.
16.	Buffaloe/Cow Pox

No firm offered the technical specification.

17.	CATT/ T.evansi Kit with accessories, CATT/Tev T250: (Institute of Tropical Medicine, Belgium) or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Cyber Pakistan Business, Hyderabad	CATT/T evansi kit with accessories, CATT/TEV T250 (Institute of Tropical Medicine Belgium.	Qualified.
2.			Qualified.

18.	Microscope glass slide with frosted end pack of 72Nos. Germany or exact equivalent imported
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 72, Citotest Germany	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China Pkt of 72Nos.	Qualified.
3	M/S S.A. Enterprises, Hyderabad	Microscope Glass slide with froste end pack , Packing 1 box (72 slides) Germany	Qualified.

19.	Disposable hand gloves. Pre examination disposable gloves, textured embossed medium size 100 Nos./packing weighing Approx 155g/pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	China per box 100 Nos..	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China pack of 100Nos.	Qualified.
3	M/S Talha Enterprises, Karachi	100 Nos. Packing weighing Approx 155g/pack (China)	Qualified.
4	M/S Burraq Business Corporation, Hyderabad	Imported China as per specification.	Qualified.
5	M/S S.A. Enterprises, Hyderabad	Disposable hand gloves. Medium size Packing 1 Box (100nos), China	Qualified.

20.	Latex surgical gloves disposable. Pre examination powder, natural high quality latex, surgical, milky white hand gloves medium size 12pair gloves/pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	Pak./ China.	Qualified.
2	M/S Talha Enterprises, Karachi	Latex surgical gloves disposable pre examination powder, natural high quality latex, surgical, milky white hand gloves China.	Qualified.
3	M/S Burraq Business Corporation, Hyd	Imported Malaysia as per specification 12pair/pack.	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Latex surgical gloves disposable. medium size, Packing 1 Box (100nos) China	Qualified.

21.	Autoclaveable bijous 5ml with aluminum screw cap white glass Imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	China 7ml	Not qualified. sample not specified as desired.
2	M/S Talha Enterprises, Karachi	Autoclaveable bijous 15 ml with aluminum screw cap Glassco	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Bijou Bottles 7ml Autoclaveable with Cap Make UK, each pack. .	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Autoclaveable bijous 5ml with aluminium screw cap white Packing 100 Bottles China	Qualified.

22.	Autoclaveable glass bottles wide mouth, screw cap 50-80ml for bacteriology/ Parasitology/Pathology specimen.
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No firm offered the technical specification.

23.	Ice Pack, cold pack for refrigerated shipment and storage at 0oC, 150micro nylon pouch, multi use PCM pack 4.3"x5.7" 200g each.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Coldpack (05Litter), Airliner Technology, Coldpack France. The coldpack Messenger Bag has been specifically designed. For transporting temperature sensitive pharmaceutical items. The Airliner a high -performance inflatable thermal bag inserted inside the outer bag. Ensure that your pharmaceutical product remain within the proper temperature range. Applications: · Vaccination campaign in outreach and /or emergency response. Collect and distribution of biological samples. Blood bags distribution from blood banks to Hospital. Pharmaceutical wholesale distribution. Specifications: The messenger bag kit contains fowling. Foldable textile bag Qty:01No, Coldpack Airliner. Qty:02No. Manual air pump, Qty:01No, Protective bag, Qty:01No. Jaw packs. Qty: 02No. It has an internal capacity (empty) of 05L.	Qualified.
2	M/S Burraq Business Corporation, Hyd	Imported as per specification, durable, light weight, easy	Qualified.

24.	Gel Refrigerant pack, 240x150mm, 500g each.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Gel Refrigerant Pack 240x 50mm 500g each	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Imported as per specification fine, durable, weight less.	Qualified.

25.	Sample bag enclosable grove 6"x9" Each of 100 Nos. /Pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 6"x9" Each of 100Nos. / Pack With Hand Air pump.	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak 100Nos./Pack.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent chemical free, fine plastic, water resistant 100No./Pack.	Qualified.

26.	Sample bag enclosable grove 10"x12" Each of 100 Nos. /Pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 10"x12" Each of 100Nos. / Pack With Hand Air pump	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent, chemical free, fine plastic.	Qualified.

27.	Disposable Apron. Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, color Blue & green 20 micron thick pack of 100 Nos.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.
2	M/S Talha Enterprises, Karachi	Disposable Apron Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, China.	Qualified.

28.	Face Mask surgical disposable, without glass fibers, high filtration capacity Pak of 50Pcs, Imported or exact equivalent.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.
2	M/S Talha Enterprises, Karachi	Face Mask surgical disposable, without glass fibers, high filtration capacity pak of 50pcs China	Qualified.

29.	Indelible Marker, Laboratory permanent marker, for all surfaces starpe fine pointer, Xylen, Ethnol and water resistant, cryogenic markers.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Dollar.	Not qualified.
2	M/S Talha Enterprises, Karachi	Indelible Marker 12 marker Malgene USA	Not qualified.

30.	Anticoagulant tubes with EDTA 4ml 100 pieces/box.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 3ml.	Qualified.
2	M/S Talha Enterprises, Karachi	Anticogulant Tube with EDTA 3ml 100pieces China	Qualified.
3	M/S S.A. Enterprises, Hyderabad	Anticoagulant tubes with EDTA 4ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Qualified.

31.	Blood/ serum collection vaccum tubes 5ml 100 pieces/box.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 4.5ml	Qualified.
2	M/S Talha Enterprises, Karachi	Blood /Serum Collection Plain Tube 3ml 100Nos China	Not qualified.
3	M/S S.A. Enterprises, Hyderabad	Blood collection vaccum tubes 5ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Qualified.

32.	Serum vial 2ml with safe lock and graduation scale Eppendorf or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 500pec, AHN Germany	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China 500Nos.	Qualified.
3	M/S Talha Enterprises, Karachi	Serum Vial 1.5ml 500Nos China	Not qualified. capacity lower than desired.
4.	M/S S.A. Enterprises, Hyderabad	Serum vial 2ml with safe lock Packing 1 Bag/Box (500nos/Bag) Manufacturer Jet Biofil, Canada	Qualified.

33.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) large size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Qualified.
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) large size Thailand	Qualified.

34.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) medium size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Qualified.
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) medium size Thailand	Qualified.

35.	Dangri (Khaki/ Blue over all). Dangri (cotton/zean cloth) standard size.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Pak	Qualified.
2	M/S Talha Enterprises, Karachi	Dangri (Khaki / Blue over all) dangri cotton standard size Local,	Qualified.

36.	Methyl Alcohol, Methanol EP Lab. grade. Acetone free 2.5 liter, Merck, Scharlau or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Merck/ BDH	Qualified.
2	M/S World Wide Scientific Karachi	CAT# Merck Methyl Alcohol (Methanol), Lab Grade M/s Merck Qty 2.5L	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Sigma	Qualified.
4	M/S Talha Enterprises, Karachi	Methyl Alcohol/Methanol EP 1 2.5Lit Merck	Qualified.
5	M/S Musaji Adam & Sons, Karachi	Methanol, analytical grade, Make Scharlau, Spain, Packing 2.5Lit	Qualified.

37.	Parafilm (Laboratory use) 14"x125ft (roll).
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# Parafilm® Parafilm 4in. x125ft M/s ParaFilm Brand Qty 01roll	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	USA 4"x125ft.	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Parafilm 4 X 125 Fit Make USA Packing Each Roll	Qualified.

38.	Sterilized swab with transport medium for bacteriological samples, collection and transportation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Pack of 100, Germany	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.
3	M/S Talha Enterprises, Karachi	Sterilized Swab 100pieces China	Qualified.
4	M/S Musaji Adam & Sons, Karachi	Sterilized swab with transport medium for bacteriological samples Make MWB,UK Packing 125Pcs	Qualified.

39.	Thermometer for Laboratory use. Thermometer digital refrigerator/Freezer max/min reading -50°C + 70°C accuracy ± 1°Cwith probe. Fisher, Carl Roth, Thomas or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Thermometer for lab use digital(-50 to 300c) 4Nos, HTC2	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified. sample not specified as desired.

40.	Glycerol Absolute lab. grade 2½liter bottle.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 2.5 liter, BDH/ Sigma	Qualified.
2	M/S World Wide Scientific Karachi	RDH/BDH Glycerol absolute lab grade Qty 2.5L	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Fisher Packing 2.5 liters.	Qualified.
4	M/S Talha Enterprises, Karachi	Glycerol Absolute Lab Grade 2.5Lit Merck	Qualified.
5	M/S Musaji Adam & Sons, Karachi	Glycerol, 99%, extra pure Make Scharlau, Spain Packing 2.5Lit	Qualified.

41.	Phosphate buffered saline tabs Oxide, Sigma or exact equivalent imported.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Qualified.
2	M/S Talha Enterprises, Karachi	Phosphate Bufferd Saline Tablets 100 Tablets Bio-World-USA	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Phosphate Buffered Saline Tablets DUL. A, Make Oxoid, UK, Packing 100Tab	Qualified.

42.	Sodium chloride Lab. grade P. kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 1 Kg Bottle, Sigma Aldrich	Qualified.
2	M/S AL-Beruni Scientific Store, Hyd	Merck/ Fisher.	Qualified.
3	M/S Talha Enterprises, Karachi	Sodium Chloride Lab Grade kg RDH	Qualified.
4	M/S Musaji Adam & Sons, Karachi	Sodium Chloride Make Daejung, Korea Packing 1Kg.	Qualified.

43.	Blood collection needle 21G. Blood collection Needles single use double sided stainless steel canulas with a silicone coating. Sterlized, non-pyrogenic 21Gx1½" thin wall 100nedles/box, BD or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Packing Box(100 needle/Box) Manufacturer CDRICH China	Qualified.

44.	Tube holder for single use blood collection needle, standard size, 50 Nos./Box, BD or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Tube holder for single use blood collection needle, standard size 50 nos box China	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Qualified.

45.	Disposable syringe 10ml pack of 100. Disposable syringes. 10cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China Box of 100Nos.	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Qualified.
3	M/S Talha Enterprises, Karachi	Disposable Syringe 10ml 100Nos Stare Laboratory China.	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Qualified.

46.	Disposable syringes. 5cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Qualified.
3	M/S Talha Enterprises, Karachi	Disposable Syring 5cc 100Nos Star Laboratory China	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Qualified.

47.	Disposable syringes. 1cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Qualified.
3	M/S Talha Enterprises, Karachi	Disposable Syring 1cc 100 Nos Star Laboratory China	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Qualified.

48.	Cotton roll absorbent cotton 400gm P. Roll Lab. Grade fine quality, National or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	400gram National.	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	National 500g.	Qualified.
3	M/S Talha Enterprises, Karachi	Cotton Roll 400 gm National	Qualified.

49.	PE Disposable shoe cover, Blue, water resistant medium size HDPE, CPE material, 1.2-4g/pcs double elastic.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.
2	M/S Talha Enterprises, Karachi	PE Disposable shoe cover China	Qualified.

50.	Universal Bottle Aluminium screw cap 28ml white glass autoclaveable.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 28ml	Qualified.
2	M/S Talha Enterprises, Karachi	Universal Bottle Aluminium Screw cap 28 ml Germany packing 100Nos.	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Universal Glass Bottle 30ml With Aluminium Screw Capped Leak Proof White Autoclaveable, Make UK Qty 500, Packing Each.	Qualified.

51.	Deep Freezer 250liters (9cfu), white colour, chest freezer, Dawlance, Waves or exact equivalent.
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No firm offered the technical specification.

52.	Deep Freezer -10°C to -40°C upright, 260 liter, white/ off white with drawers/ chamber, Haier or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Model: DW-FL90/270 Manufacturer Zhongke Meiling Cryogenics Ltd	Qualified.
2.	M/S Shameel Enterprises, Hyderabad	Deep Freezer -10°C to -40°C upright 260 liter Haier.	Qualified.

53.	Serum transportation box 100 places thermo cool material with covering lid.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Serum Transportation Box Thermo cool material with covering lid With CVDL Mark With inner aluminum division.	Qualified.

54.	Surgical scalpel stainless steel No.4 scalpel.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Qualified.

55.	Surgical blade No.22.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.
3	M/S Talha Enterprises, Karachi	Surgical Blade No 22 China	Qualified.

56.	CMT tray for milk testing. CMT Test Peddle. Four compartment blue plastic peddle with slightly doomed cup-bottom and pump dispenser bottle for reagent. Bovi-Vet Denmark or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyd	As per specification 1-liter packing.	Qualified.
2	M/S S.A. Enterprises, Hyderabad	CMT test reagent 1000ml (2ml/ test 8ml/animal, 120 animals/bottle) Minimum order: 24 sets Packing 1pkt (12nos/pkt) Manufacturer ImmuCell CMT Starter Kit USA	Qualified.
3	M/S Cyber Pakistan Business, Hyderabad	CMT kit Comprising 1 liter liquid segmented test paddle, 2ml pipette Cat No.497095, Coxagri UK.	Qualified.

57.	Tagging machine medium (small ruminants) with 1000 aluminum tags
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Durable long lasting, fine qualify.	Qualified.

58.	Hand held pH/EC and TDS tester 2-16pH, 0-20ms/cubic cm, range 0-10,000ppm Hanna, Thermo, Genway or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Ph Hand Held pen type meter 0-16ph Qty/Pack size 1Nos Hannah/ezydo	Qualified.
		TDS Hand Held pen type meter 0-10000pp Qty/Pack size 1 Nos. Hannah/ezydo	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China	Not qualified. Specification not provided.
		China superior quality.	

59.	First aid box. First aid box All purpose, soft sided kit contents: Bandage, injury treatment, Tropical antiseptic, Medicine, Instruments/ Misc: scissors, Tweezers, Thermometer, Safety pins, Vinyl gloves, Cotton tipped applicators (250-300pieces).
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	First Aid Box(acording to requierd spec), Qty/Pack size 6 complete loaded box, Premier	Qualified.
2	M/S Burraq Business Corporation, Hyd	High quality, material durable, easy carry, light weight, No moister germ.	Qualified.

60.	pH electrode. pH electrode. Glass combination, pH range 0-14, temp. range 0-60°C active dimension 120x12mm outer junction ceramic outer electrolyte liquid
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	BNC USA.	Qualified.

61.	Gas Room heater, Portable, heat level 1.5-4.2kw, 3 ceramic boards Adjustable thermostat, Metal material free standing for laboratory room.
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No firm offered the technical specification.

62.	Pestle and mortar, porcelain, white, Mixing/ grinding Bowl set medium (10cm diameter)
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Qualified.

63.	Forcep stainless steel. Tissue forceps 130mm straight.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	High quality material, fine and best design.	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Qualified.

64.	Tissue forceps 130mm curved stainless steel.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	High quality material. Fine and best design to carry easy	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Qualified.

65.	Dressing scissor straight 125mm blunt point.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality.	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Qualified.

66.	Dressing scissor straight blunt/one pointed 125mm.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality.	Qualified.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Qualified.

67.	Reagent Basin 60ml trough reservoir white poly propylene.
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No firm offered the technical specification.

68.	Green Nucleic acid stain for DNA staining, 5x1ml Promega, Fermentas or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K0221 Maxima SYBR Green/ROX qPCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200x25µl	Qualified.

69.	Ethidium bromide, Molecular biology grade, 1gram Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 7870.1 Ethidium bromide, Molecular Biology Grade M/s Carl Roth Germany Qty 01g	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 43109 Merck (Molecular biology grade)	Qualified.
3	M/S Talha Enterprises, Karachi	Ethidium Bromide 5gm Bio-World-USA	Not qualified. not equivalent as desired.
4	M/S Musaji Adam & Sons, Karachi	Ethidium bromide, for biochemical purposes (Cat # ET0108), Make Scharlau, Spain, Packing 1gm	Qualified.

70.	Agrose, Molecular biology grade, 100grams Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# R9012LE HyAgarose LE Agarose, Multi-purpose, Molecular Biology Grade M/s ACT Gene USA Qty 100g	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2120 Merck (Molecular biology grade)	Qualified.
3	M/S Talha Enterprises, Karachi	Agarose Molecular Biology Grade 100gm Bio-World-USA	Not qualified.
4	M/S Musaji Adam & Sons, Karachi	Agarose Make USA, Packing 1Kg	Qualified.
5	M/S S.A. Enterprises, Hyderabad	Agrose, Molecular biology grade Packing 100 grams, Manufacturer Conda Lab, Spain	Qualified.

71.	Tris, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	1 Kg Bottle Sigma Aldrich	Not qualified.
2	M/S World Wide Scientific Karachi	CAT# T838 Tris Base, Molecular Biology Grade M/s Phyto Tech.USA Qty 01kg	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648311 Merck (Molecular biology grade)	Qualified.
4	M/S Talha Enterprises, Karachi	Tris Molecular Biology Grade 1kg Bio-WorldUSA	Not qualified.
5	M/S Musaji Adam & Sons, Karachi	Tris-(hydroxymethyl)-aminomethane, molecular biology grade (Cat # TR0424), Make Scharlau, Spain Packing 500gm	Qualified.

72.	Tris Hcl, Molecularbiology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	1 Kg Bottle Sigma Aldrich.	Not qualified.
2	M/S World Wide Scientific Karachi	CAT# T858 Tris HCl, Molecular Biology Grade M/s Phyto Tech. USA Qty 01kg	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648313 Merck (Molecular biology grade)	Qualified.
4	M/S Talha Enterprises, Karachi	Tris HCL Molecular Biology Grade 1kg Bio-World-USA	Not qualified.
5	M/S Musaji Adam & Sons, Karachi	Tris-HCl, molecular biology grade (Cat # TR0425), Make Scharlau,Spain Pac of 1kg	Qualified.

73.	Green Master Mix (2X), High quality, 100reaction Promega, or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K1081 DreamTaq Green PCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200react	Qualified.

74.	DNA Laddar, 100bp range 100-3000, 1 vial Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	100bp PlusII DNA ladder(100-5000bp), Packing 1 vial /500ul, TRANS UAE	Qualified.
2	M/S World Wide Scientific Karachi	CAT# SM0321 GeneRuler 100bp Plus DNA Ladder,ready-to-use (100-3000bp) for 100lanes M/s Thermo Scientific (Fermentas), Qty 01vail	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck 100loading	Qualified.
4	M/S Talha Enterprises, Karachi	DNA Ladder,100bp range 500ul/vial CAISSON LAB-USA	Not qualified.
5	M/S S.A. Enterprises, Hyderabad	Packing 1 Vial, Manufacturer Molecule-on, New Zealand	Qualified.

75.	DNTPs, High quality, 1ml Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	High Pure dNTPs(2.5mM), Qty/ Packing size 1 ml, TRANS UAE	Qualified.
		High Pure dNTPs(10mM), Qty/ Packing size 1 ml, TRANS UAE	Qualified.
2	M/S World Wide Scientific Karachi	CAT# R0241 dNTP Mix, M/s Thermo Scientific (Fermentas) Qty 01ml	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck. Pack of 1ml	Qualified.
4	M/S Talha Enterprises, Karachi	DNTPs,High Quality 1ML Bio-World USA	Qualified.
5	M/S S.A. Enterprises, Hyderabad	DNTPs 10 mM dNTP Mix Packing Vial 1ml Manufacturer Molecule-on, New Zealand	Qualified.

76.	Nuclease free water, High quality, 1000ml Promega, or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 3255.1 Water, sterile, free from pyrogen, hypotonic M/s Carl Roth Germany Qty 01L	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Merck Qty 1-liter pack.	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Nuclease Free Water, High Quality Make Hyclone, Packing 1000ml	Qualified.

77.	Acetic Acid, Molecular biology grade, Sigma, 2.5 liter Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/ Packing size bottle 2.5 liter, Sigma Aldrich	Not qualified.
2	M/S World Wide Scientific Karachi	Merck Acetic Acid, Molecular Biology Grade M/s Merck Qty 2.5L	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Fisher packing 2.5 liters.	Qualified.
4	M/S Talha Enterprises, Karachi	Acetic Acid 2.5/Lit Merck	Not qualified.
5	M/S Musaji Adam & Sons, Karachi	Acetic acid glacial, analytical grade (Cat # AC0352), Make Scharlau, Spain Qty 1, Packing 2.5Lit	Not qualified.
		Acetic acid glacial, analytical grade (Cat #1005-3304), Make Daejung, Korea, Qty 1, Packing 4Lit.	Not qualified.

78.	EDTA, Molecular biology grade, 1KgSigma, Merck, Scharlau or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Bottle of 1 kg, Sigma Aldrich	Not qualified.
2	M/S World Wide Scientific Karachi	CAT# X986.2 EDTA, Molecular Biology Grade M/s Carl Roth Germany Qty 01kg.	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 4005 Merck (Molecular biology grade) / Sigma..	Qualified.
4	M/S Talha Enterprises, Karachi	EDTA 1Kg Sigma	Not qualified.
5	M/S Musaji Adam & Sons, Karachi	Ethylene diaminetetra acetic acid, EDTA, synthesis grade (Cat # AC0940) Make Scharlau, Spain, Qty 1, Packing 1kg.	Not qualified.

79.	Boric acid, Molecular biology grade, Sigma, 1Kg Merck, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Bottle of 1 kg, Sigma Aldrich	Not qualified.
2	M/S World Wide Scientific Karachi	RDH Boric Acid, Molecular Biology Grade Qty 01kg	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2710 Merck (Molecular biology grade).	Qualified.
4	M/S Musaji Adam & Sons, Karachi	Boric acid, molecular biology grade (Cat # AC0580), Make Scharlau, Spain Packing 1kg	Qualified.

80.	DNA Extraction Kit, Column base, high yeild, high purity. For Blood, Tissue, Culture media, Bacteria. 50 reaction/kit, Qiagen, Invitrogen or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Genomic DNA Kit, EE101-01 Trans UAE, 50rxns	Not qualified.
		Blood Genomic DNA Kit, EE121-01 Trans UAE, 50rxns	
		Bacteria Genomic DNA Kit, EE161-01 Trans UAE, 50rxns	
2	M/S World Wide Scientific Karachi	CAT# K0721 GeneJET™ Genomic DNA Purification Kit for Blood, Tissue, Bacteria, spin column base M/s Thermo Scientific (Fermentas) Qty 50prep	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck 50reaction.	Qualified.

81.	Trizol reagent, For RNA, DNA and protein extraction, 200ml, Invitrogen or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/ Packing size 200ml, ET101-01 Trans UAE.	Not qualified.
2	M/S World Wide Scientific Karachi	TR 118 TRI Reagent for RNA isolation for 200-400 applications M/s 'MRC' USA Qty 200ml	Qualified.

82.	Primer Babesia Reverse & Forward
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Babesia Forward & Reverse M/s Gene Link USA	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer Babesia Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

83.	Primer Theileria Reverse & Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Theileria Forward & Reverse M/s Gene Link USA	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer Theileria Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

84.	Primer P.mutocida Reverse, Forward, Universal and specific A,B,C.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer P.mutocida Forward & Reverse M/s Gene Link USA.	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer P. mutocida Reverse, Forward, universal and specific A,B,C Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

85.	Primer contagious caprine Pleunopneumonia (CCPP), Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer CCPP Forward & Reverse M/s Gene Link USA	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer contagious caprine Pleunopneumonia CCPP Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

86.	Primer Clostridium Perfergens (Entertoxaemia) Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Clostridium Perfergens Forward & Reverse M/s Gene Link USA	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer Clostridium perfergens (Entertoxaemia) Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

87.	Primer camel pox Reverse and Forward.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Camel pox Forward & Reverse M/s Gene Link USA	Qualified.
2	M/S S.A. Enterprises, Hyderabad	Primer camel pox reserve and forward Packing 25 Bases Manufacturer Bioneer, Korea	Qualified.

88.	Paraffin Wax Scharlau, Leica or equivalent 5kg or minimum packing.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Paraffin Wax, Make Scharlau, Spain Packing 1kg	Qualified.

89.	Thin wall PCR tubes 0.2 ml, Thin-wall flat cap PCR tubes 0.2ml .pre-sterilized, Ultra-thin and consistent wall thickness. White transparent Color, DNA and RNA free, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Cat # 60-0082 0.2ml flat cap PCR Tubes, DNA, RNA free, Pre sterile transparent 1000/bag M/S BioLogix USA	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China Packing 1000Pcs.	Not qualified.
3	M/S Musaji Adam & Sons, Karachi	(PCR-02-C), Make Corning-Axygen Packing 1000Pcs.	Qualified.
4	M/S S.A. Enterprises, Hyderabad	Pack (500 No/ pack) China	Not qualified.

90.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.2mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# PC0013 PCR Tube Rack with lid, 96-well, colored, for 0.2ml PCR Tubes, 12rack/pkt M/s GEBio USA Qty 01pkt	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified.
3	M/S Musaji Adam & Sons, Karachi	(R-96-PCR-FST)Make Corning-Axygen Packing Each	Qualified.

91.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.5mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified.
2	M/S Musaji Adam & Sons, Karachi	PCR Tube rack, 96 well racks with lid in different color for the storage and handling of 0.2ml, PCR tubes, Eppendorf (R-96-PCR-FST) (R-96-PCR-FST) Make Corning-Axygen, Packing Each	Qualified.

92.	Eppendorf tube racks, Racks with lid in different color for the storage and handling of 1.5ml eppendorf tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Ependrof tube rack 60 place for 1.5ml pack of 12 racks, AHN Germany	Qualified.
2	M/S World Wide Scientific Karachi	CAT# 90- CAT# 9009 Eppendorf Tube Rack with lid in different color for 1.5ml tubes, 12rack/pack M/s Biologix USA Qty 01pkt	Qualified.
3	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified.
4	M/S Musaji Adam & Sons, Karachi	Eppendorf Tube rack, 96 well racks with lid in different color for the storage and handling of 0.2ml, Eppendorf tubes, Eppendorf (R-80-AF), Make Corning-Axygen, Packing Each	Not qualified.

93.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0010-R-NS 10µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (TF-20-R-S) Make Corning-Axygen Packing 96 Tips	Qualified.
3	M/S S.A. Enterprises, Hyderabad	Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Qualified.

94.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0100-R-NS 100µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TF-100-R-S) Make Corning-Axygen Packing 96 Tips	Qualified.
3	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Qualified.

95.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 200ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0200-R-NS 200µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box.	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (TF-200-R-S), Make Corning-Axygen, Packing 96 Tips.	Qualified.
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA.	Qualified.

96.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT1000-R-NS 1000µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul) (TF-1000-R-S) Make Corning-Axygen, Packing 100 Tips	Qualified.

97.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0010 1-10µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (T-300-R-S), Make Corning-Axygen, Packing 96 Tips	Qualified.
3	M/S S.A. Enterprises, Hyderabad	size: 10ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Qualified.

98.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TE-204-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Qualified.
2	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Qualified.

99.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size:200ul , Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0200 1-200µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (T-200-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Qualified.
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Qualified.

100.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-1000 200-1000µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul)(T-1000-B-R-S) (Sterilized), Make Corning-Axygen, Packing 100 Tips	Qualified.
3	M/S S.A. Enterprises, Hyderabad	size: 500ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Qualified.

101.	4-way flipper rack, Plastic material, four way tube holder Holds thirty-two 0.5ml, thirty-two 1.5ml, twelve 15ml or four 50ml tubes, each on a different side, CLP, Corning, Roth, or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	4-way flipper rack, four 50ml, twelve 15ml, twenty four 1.5ml and 0.5ml, 10rack/pkt Qty 01pkt	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Cat # (R-480-A) Make Corning-Axygen, Qty 1, Packing 100 Tips	Not qualified.

102.	Carboys with Spigot, White clear or semi transparent, 8-10 lit capacity, Roth, Nalgen, Fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	carboys 10 liter with spigot semi transparent, pack of 6nos, Kartel Italy	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Carboys with Spigot, White clear or semi transparent, 10 lit capacity Make Kartell, Italy, Packing Each	Qualified.

103.	Single Tube rack, Holds a single 50mL conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	S. Steel.	Not qualified.

104.	Single Tube rack, Holds a single 15ml conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	S. Steel.	Not qualified.

105.	Refrigerator rack, Lower section to be filled chilled water or Top insert try hold 50 tube of 1.5ml and 15 tubes of 15 and 50 ml. CLP, fisher or exact equivalent.
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No firm offered the technical specification.

106.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 25.4x7.9mm (1x 5/16"), CLP, fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified.
2	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring. Pack contain six Bars total, two each of the sizes :25.4x7.9mm, Make Kartell, Italy, Packing Each	Qualified.

107.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 38.1x7.9mm (1 1/2x 5/16"), CLP, fisher or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Not qualified.
2	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring.Pack contain six Bars total,two each of the sizes :38.1x7.9mm, Make Kartell, Italy, Packing Each	Qualified.

108.	Wash Bottles, White color, 500ml capacity, fisher, Roth or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Wash bottle 500ml white colour,poly lab UK	Qualified.
2	M/S AL-Beruni Scientific Store, Hyderabad	Germany.	Qualified.
3	M/S Musaji Adam & Sons, Karachi	Make Kartell, Italy, Packing Each	Qualified.

109.	Hypo chlorite Acid Lab grade, 4 liter bottle, Fischer, Scharlau or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	hypochlorite labgrade, bottle of 4 liter, Unichem UK	Qualified.
2	M/S Musaji Adam & Sons, Karachi	Sodium Hypochlorite 15%, Make Scharlau, Spain, Packing 1Lit.	Qualified.

110.	Moist lens wipes Quick Dry and Smear free individual sachet packing content Alcohol Denot Boots or exact equivalent.
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No firm offered the technical specification.

111.	Zanil litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Flukil drench Composition: Oxyclozanide..3.4% w/v Packing 1-litre, Symans	Not qualified. Not equivalent as desired
4	M/S Choice Enterprises, Hyderabad	Flukil Composition: Oxyclozanide..3.4% w/v Packing 1-litre, Symans	Not qualified. Not equivalent as desired

112.	Systemsmax 450ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Oxasym drench, Composition: Oxfendazole.. 2.265% w/v packing 450ml, Symans.	Not qualified. Not equivalent as desired
4	M/S Choice Enterprises, Hyderabad	Oxasym drench, Composition: Oxfendazole.. 2.265% w/v packing 450ml, Symans.	Not qualified. Not equivalent as desired

113.	Valbazen litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack, Albendazole 11.25% (Pfizer)	Qualified.
2	M/S Orison Corporation, Hyderabad	1 liter Pack, Albendazole 11.25% , (Pfizer)	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Imported Pfizer USA company packing 1 liter.	Qualified.

114.	Nilzan Plus litre pack.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Nayzan plus, Composition: Levamisole Hcl 1.5% w/v, Oxyclozanide 3.0% w/v, Cobalt Sulphate 0.382% w/v, Packing 1-liter, SYMANS Pharma.	Not qualified. Not equivalent as desired
4	M/S Choice Enterprises, Hyderabad	Nayzan plus, Composition: Levamisole Hcl 1.5% w/v, Oxyclozanide 3.0% w/v, Cobalt Sulphate 0.382% w/v, Packing 1-liter, SYMANS Pharma.	Not qualified. Not equivalent as desired

115.	Nilzan plus 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Nayzan plus, Composition: Levamisole Hcl 1.5% w/v, Oxyclozanide 3.0% w/v, Cobalt Sulphate 0.382% w/v, Packing 100ml, SYMANS Pharma.	Not qualified. Not equivalent as desired
4	M/S Choice Enterprises, Hyderabad	Nayzan plus, Composition: Levamisole Hcl 1.5% w/v, Oxyclozanide 3.0% w/v, Cobalt Sulphate 0.382% w/v, Packing 100ml, SYMANS Pharma.	Not qualified. Not equivalent as desired

116.	Ampiclox L/A 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Ampiclox LC Pfizer USA company packing 3g i/m tube .	Not qualified.

117.	Mastivex 1/m tube or equivalent Each 10gm syringe
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	MASTIGON. Composition: Each 10gm injector contains:, Prednisolone 5mg, Neomycin as sulphate 200mg, Linocmycin as HCL 200mg. Packing 4 Injectors of 10gm each Star Laboratories (Pvt.) Ltd.	Not qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	MASTIGON. Composition: Each 10gm injector contains:, Prednisolone 5mg, Neomycin as sulphate 200mg, Linocmycin as HCL 200mg. Packing 4 Injectors of 10gm each Star Laboratories (Pvt.) Ltd.	Not qualified.
3	M/S Burraq Business Corporation, Hyderabad	Imported	Not qualified.

118.	Trypa Medium for surra Packing 10x1g sachets.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Trypamedium	Not qualified. No authorization

119.	Zorox gold 500ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Qualified.
2	M/S Orison Corporation, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	ZOROX GOLD DRENCH CONTAINS: Oxfendazole B.P (Vet) 2.265% w/v (22.65mg/ml), Oxyclozanide B.P. (Vet.)6.25% w/v (62.5mg/ml), Selenium (as sodium selenate) 0.05% w/v (0.5mg/ml), Cobalt (as cabalt sulphate) 0.167% w/v (1.67mg/ml). Packing 500ml. Haxxon Health Science.	Not qualified. No authorization

120.	TRIFAS suspension 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	As per specification.	Not qualified.

121.	TRIFAS suspension 500ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt) Limited.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt) Limited.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	As per specification.	Not qualified.

122.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 100ml. Medi-Vet Pharma	Qualified.
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml, Medi-Vet.	Qualified.

123.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 50ml. Medi vet Pharma	Qualified.
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml Medi-Vet.	Qualified.

124.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 100ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Qualified.
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Qualified.

125.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 500ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Qualified.
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Qualified.

126.	Fluka Super Drench 1000ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification Brand name.	Qualified.

127.	Fenid Gold drench 1000ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %	Qualified.
2.	M/S Orison Corporation, Hyderabad	1 liter Pack Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Medicure Laboratories Pharmaceutical Manufacturers, karachi.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	As per specification Brand name.	Not qualified.

128.	Fenid Gold drench 250ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification Brand name.	Qualified.

129.	Inj: Gentamicin 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Inj: Gencine 10% Packing 100 ml, Gentamicin 100 mg	Qualified.
2	M/S Orison Corporation, Hyderabad	Inj: Gencin 10% packing 100 ml, Gentamicin 100 mg,	Qualified.
3	M/S China Medical Store, Hyderabad	Gentamicin 10% Packing 100ml, UNIVET	Qualified.
		Gentamicin 20% Packing 100ml, UNIVET	Qualified.
4	M/S Gul Rays Enterprises, Hyderabad.	Gentamicin 10% Packing 100ml, UNIVET	Qualified.
		Gentamicin 20% Packing 200ml, UNIVET	Qualified.
5	M/S Burraq Business Corporation, Hyderabad	Syman Pharma.	Not qualified. specification not provided
6	M/S Choice Enterprises, Hyderabad	Syman Pharma.	

130.	Inj: Tribriksen 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Tribriksen™ (Trimethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Tribriksen™ (Trimethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Inj: Trimed Composition: Each ml Contains Trimethoprim. B.P. 80mg, Sulphadiazine B.P. 400mg Packing 50ml Medi-Vet.	Not qualified. not equivalent as desired.
4	M/S Choice Enterprises, Hyderabad	Syman Pharma.	Not qualified. specification not provided

131.	Inj. Pantamycin 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corp, Hyd	As per specification Brand name.	Qualified.

132.	Inj. Gentipra-ts 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Qualified.
3	M/S Burraq Business Corporation, Hyd	As per specification Brand name.	Not qualified. No specification & authorization

133.	Inj. Oxytetracyclen LA 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Inj: Oxytetracycline 10% Each ml contains: Oxytetracycline HCL 100mg Packing 100ml HEBEI YUANZHENG PHARMACEUTICAL CO. LTD. CHINA.	Qualified.
4	M/S Choice Enterprises, Hyderabad	Terrasym LA-200 Inj. Composition: Each ml contains: Oxytetracycline HCl..200mg, Packing 100ml, Symans.	Qualified.
5	M/S Lucky Brothers, Hyderabad	Oxy-LA 100ml Selmore	Not qualified. specification not provided

134.	Inj. Fluean
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Qualified.

135.	Inj: TRY-BAN 3g vial
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Tryban	Qualified.

136.	Inj. Imezol 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Imezol Packing 100ml	Qualified.

137.	Inj. Butalex
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Butalex	Qualified.

138.	Inj. Enrofloxacin.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Inj: Enfocin 10%, Packing 50 ml, Enrofloxacin 100 mg	Not qualified.
2	M/S Orison Corporation, Hyderabad	Inj: Enfocin 10%, 50 ml Enrofloxacin 100 mg.	Not qualified.
3	M/S China Medical Store, Hyderabad	Inj: Avifloxin-10 Composition: Each ml contain: Enrofloxacin 100mg, Packing 50ml, Hilton Pharma (Pvt.) Ltd.	Not qualified.
4	M/S Gul Rays Enterprises, Hyderabad.	Inj: Avifloxin-10 Composition: Each ml contain: Enrofloxacin 100mg, Packing 50ml, Hilton Pharma (Pvt.) Ltd.	Not qualified.
5	M/S Burraq Business Corporation, Hyderabad	Inj: Enrofloxacin 10% packing 50ml Hebei China.	Qualified.
		Inj: Enrofloxacin 10% packing 100ml Hebei China.	Qualified.
6	M/S Choice Enterprises, Hyderabad	Symans Pharma, Lahore. 50ml	Not qualified.

139.	Inj. Tetravaxes
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Tetravex	Qualified.

140.	Inj. Hyperalonaenro-1 100ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Qualified.

141.	Inj. Ivomec 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, MERAL	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, MERAL	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Not qualified. specification not provided
4	M/S Choice Enterprises, Hyderabad	Symans Pharma Lahore 50ml.	

142.	Inj. Trisulpha 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Qualified.
2	M/S Lucky Brothers, Hyderabad	As per specification tender.	Qualified.

143.	Inj. Trimethosulf100ml Germany.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Trimetosul 48% Composition Trymethoparm 80mg, Sulfadyzen 400mg, Packing 100ml, PLIVA d.d. Zagreb Croatia.	Not qualified.

144.	Inj. Brema Mectin 50ml Germany.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Dectomax Inj: Composition Doramectin 10mg/ml. Packing 50ml Pfizer Animal Health.	Not qualified.

145.	Inj: Imidocarb 50ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Imidocarb 50ml	Qualified.

146.	Inj: Imicarb 50ml.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Inj: Imicarb 50ml.	Qualified.

147.	Inj. Buprex 20ml
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Buprex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Qualified.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Buprex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Qualified.
3	M/S Burraq Business Corporation, Hyderabad	Inj. Buprex 20ml	Qualified.

148.	Inj: Dura Plex 20ml.
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No firm offered the technical specification.

149.	Antibiotic 3rd generation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Inj: Sulzine Packing 50 ml, Sulfadiazine 400mg, Trimethoprin 80mg, ISIS Pharmaceuticals & Chemical Works, Karachi.	Not qualified.
2	M/S Orison Corporation, Hyderabad	Inj: Sulzine 50 ml, Sulfadiazine 400mg, Trimethoprin 80 mg. ISIS Pharmaceuticals & Chemical Works, Karachi.	Not qualified.
3	M/S China Medical Store, Hyderabad	Floxacin-200 Inj: Composition: each ml injectable solution contains: Ciprofloxacin 200mg. Packing 10ml, 20ml, 50ml & 100ml Leads Pharma.	Not qualified.
4	M/S Gul Rays Enterprises, Hyderabad.	Draxxin Inj: Composition: Tulathromycin..100mg/ml, Monothioglycerol ..5mg/ml, Packing 100ml, Pfizer.	Qualified.
5	M/S Burraq Business Corporation, Hyderabad	Medi-T.G.C. Inj: Composition: Each ml contains. Tylosin Tartrate B.P. Vety. 200mg, Gentamycin Base (as sulphate) B.P. 100mg, Colistin Sulphate B.P. 50mg. Packing 50ml, Medi-Vet (Pvt.) Ltd.	Qualified.
6	M/S Lucky Brothers, Hyderabad	OXY-LA 100ml Selmore	Not qualified.

150.	Antiparastic drugs 3rd generation
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Euvectin LG Packing 100 ml Ivermectin 10mg	Not qualified.
2	M/S Orison Corporation, Hyderabad	Euvectin LG 100 ml Ivermectin 10mg , Powered by Ghazi Brothers.	Not qualified.
3	M/S China Medical Store, Hyderabad	Inj: Trodax Contain Nitroxynil injection 34% w/v B.P. (Vet.) Packing 100ml Merial	Qualified.
		Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Qualified.
4	M/S Gul Rays Enterprises, Hyderabad.	Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Qualified.
5	M/S Burraq Business Corporation, Hyderabad	Anthel Vet-M suspension, Composition each ml contains: Closantel 50mg, Mebendazole 75mg, Cobalt Sulphate 9mg. Packing 500ml, Medi-Vet. (Pvt.) Ltd.	Qualified.
6	M/S Lucky Brothers, Hyderabad	Inj: Actimee Plus each 100ml contains: Ivermectin 1gm, Clorsulon 10gm, Packing 10ml, Selmore.	Not qualified.
		Elvomec Super Inj: each ml contains: Ivermectin..1% w/v, Clorsulon...10% w/v Packing 50ml, ELKO.	Not qualified.

151.	Anitiprotozoan 3rd generation.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Imidox Inj Packing 100 ml, Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Qualified.
2	M/S Orison Corporation, Hyderabad	Imidox Inj 100 ml, Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Qualified.
3	M/S China Medical Store, Hyderabad	Inj: Minazin PF, Composition: Each mil contains, Diminazine Aceturate...105mg, Antipyrine...131mg, Packing 50ml, Leads Pharma (Pvt). Limited.	Not qualified.
4	M/S Lucky Brothers, Hyderabad	Inj: Antiprotoz Diminazine, Aceuturate.105mg, Antipyrine..131mg. Packing 10ml, ELKO.	Not qualified.

152.	Wheat Straw Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Fresh, No dust, No moist.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High fiber.	Qualified.
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Qualified.

153.	Wheat Bran Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	High fal protein, fresh.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fibre.	Qualified.
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Qualified.

154.	Broken Wheat Per kg.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	High foil, Fresh, Fine quality high protein,	Qualified.
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Qualified.
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Qualified.

155.	Rice Polish livestock feed category per KG
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Fine quality, high fiber, good dietary, no dust, moist.	Qualified.
2	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Qualified.
3	M/S Lucky Brothers, Hyderabad	As per tender specification.	Qualified.

156.	Cotton Seed Cake Per kg
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	No moist, No dust, high quality sufficient diet value.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Qualified.
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Qualified.

157. Mustard Cake Per Kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	High quality.	Qualified.

158. Rocky salt.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Qualified.
2.	M/S Burraq Business Corporation, Hyderabad	Fine and high quality.	Qualified.

159. Mustard Sweet Oil Per Liter

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Fresh, Fine, best quality.	Qualified.
3	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Qualified.

160. Rock Salt Per Kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Fresh, fine, best quality.	Qualified.

161. Sunflower meal/ cake per kg.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Feed grade , high dietry	Qualified.
2	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Qualified.

162. Maize per Kg/ day.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green high nutrition value sufficient.	Qualified.
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Qualified.

163. Burseem per Kg/ day.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green, dietry fiber high nutrition.	Qualified.
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Qualified.

164.	Junter per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green, high fiber.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Qualified.

165.	Sorghum per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Best quality fresh green.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Qualified.

166.	Lucerne per Kg/ day.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Qualified.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green sufficient dietary fiber feed grade, high nutrition.	Qualified.
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Qualified.

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**GOVERNMENT OF SINDH
LIVESTOCK & FISHERIES DEPARTMENT
VETERINARY RESEARCH & DIAGNOSIS
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EVALUATION/SCRUTINIZATION REPORT

**FOR PROCUREMENT
DURING THE FINANCIAL YEAR 2014-2015
OF**

- 1. Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture.**
- 2. Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine And Feeding For Experimental Animals.**

**DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS,
CVDL SINDH, TANDO JAM.**

	<p>EVALUATION/SCRUTINIZATION REPORT FOR PROCUREMENT OF (1) HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE (2) COST OF OTHER STORE; CHEMICALS, BIOLOGICS, GLASS/ PLASTIC WARE & INSTRUMENTS, SAMPLE COLLECTION MATERIAL, ACCESSORIES, RESEARCH ASSISTANCE MATERIAL FIRST AID MATERIAL, TRIAL TREATMENT MEDICINE AND FEEDING FOR EXPERIMENTAL ANIMALS. CHEMICALS, BIOLOGICS, GLASS/ PLASTIC WARE & INSTRUMENTS, SAMPLE COLLECTION MATERIAL, ACCESSORIES, RESEARCH ASSISTANCE MATERIAL, LIVESTOCK FEEDING FOR ANIMALS AND FIRST AID MEDICINE OF DIRECTORATE VETERINARY RESEARCH & DIAGNOSIS, CVDL SINDH, TANDO JAM DURING THE FINANCIAL YEAR 2014-2015.</p>	
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The procurement of:

1. **Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture.**
2. **Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine and Feeding for Experimental Animals. Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material, Livestock Feeding for Animals and First Aid Medicine.**

For the Serial # 1, 14 firms purchased tender documents, 8 firms submitted sealed tenders (Technical and Financial proposal/envelops), whereas, for the Sr.# 2, 19 firms purchased tender document, 16 firms submitted the tenders.

Technical Tenders (proposal/envelops) were opened on 29-01-2015 @ 12.30hours by the Procurement Committee in its 1st meeting in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad. The specification of technical tenders was approved in 2nd meeting was held on 13-02-2015 @ 10.00am and **financial tenders (proposal/envelops)** were opened on 13-02-2015 @ 11.30am in its 3rd meeting in the Committee Room of Livestock and Fisheries Department, Government of Sindh, Karachi.

Financial comparative statement has been prepared for technically approved tendered items by the Procurement Committee meeting was held on 13-02-2015 @ 10.00AM in the Committee Room of Livestock and Fisheries Department, Govt. of Sindh, Karachi and evaluation report placed before the committee for approval of rates in favour of bidders.

The given below list of items as per comparative statement is recommended for approval:

1. PURCHASE OF HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE.

Of the **Fourteen (14)** firms, **eight (08)** firms participated in the tender,

1. M/S Scientific Technical Corporation (Pvt.) Lahore.
2. M/S Al-Beruni Scientific Store, Hyderabad
3. M/S Talha Enterprises, Karachi
4. M/S ScienTec Karachi
5. M/S Burraq Business Corporation, Hyderabad
6. M/S Habib & Sons, Karachi
7. M/S World Wide Scientific Karachi
8. M/S Roghay Sons, Karachi

Sr. #	Name of items with specification.
A	Purchase of Hardware
1.	Computers and Printers with all accessories. Desktop computer Processor Intel core i7 3.06 Or higher specification Mother Board, Intel original. Or higher specification Ram 4 GB DDR-3 Or higher specification, Hard Disk 500GB or higher. Casing ATX casing legend with heavy duty power supply. Optical drive, HD/DVD – Reader & writer Graphic Card Builtin. Key Board Heavy duty. Ether net card. 10/100 Mouse Heavy duty. Monitor LED17” or above, HD slot in CPU and connection. Dust cover Heavy duty Mouse Pad Thick Head phone With sound control. Sound Card Real Tack ALC 8885 or above. USB slots 4 No. 4 No. Operating system Windows 7, Genuine licensed CD Home/Professional Microsoft. with H.P. LASER JET 1020 or higher specification. Print technology Laser Processor Speed 266 MHz Maximum RAM 8 MB Standard RAM 8 MB Resolution 600 x 600 dpi Print speed B/W 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/A5/B5/ Letter/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.

Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Habib & Sons, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S Habib & Sons, Hyderabad.	Intel core i.7Desktop computer, PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS: Graphic Card, OPERATING SYS:Windows-7 (licensed), INPUT DEVICES:KB/Mouse, EXTRAS Dust Cover, Headphone. Screen Size:17" W, Viewable Image Size:470mm, Pixel Pitch:0.3(H)x0.3 (V)mm, Display Area:409.8 (H)x230.4 (V)mm. Brightness:200 cd/m ² , Contrast Ratio (typical):20000000:1 (DCR), Viewing Angle:90/50 (CR≥10), Recommended, Resolution:1366x768 @60Hz, Display Colours:16.7M, Input Signal: Analog RGB, Input Connector:15-pin D-Sub, Power Supply:90~240VAC, 50/60Hz, Power Consumption: Power On: <18W (Typical), Standby: <0.5W, Plug & Play: VESA DDC2B™ & DDC2B/CI , User Control: Auto/Exit, Eco(DCR)/-, Image Ratio/+, Menu, Power, OSD Languages:16 languages, Speakers: No, Cabinet Colour: Black, Contrast Ratio:600 : 1, Note: If the same model not available at the time of delivery model of the product specified will be provided as per market availability. With HP LaserJet P1102W, Print Technology: Monochrome LaserJet, Print Speed:Up to 19PPM, Resolution: Up to 600x600x 2dpi (1200dpi effective output), Duty Cycle 5000pages monthly, Paper Handling: 10sheet priority feed slot, 150-sheet input tray, Processor:266 MHz Tensilica, Duplex:Mannual, Wireless Connectivity: Yes WiFi 802.11b/g.	Rs.124,500/- each set
2.	M/S Burraq Business Corporation, Hyderabad	PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS: Graphic Card, OPERATING SYS:Windows-7 (licensed) With HP LaserJet P1102W	Rs.134,900/ each set

Procurement Committee may approve purchase from the 1st lowest bidder M/S Habib & Sons, Hyderabad @ the rate of Rs.124,500/- each as per given specification.

B	Purchase of Plant & Machinery.
2	ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, Chromate, USA/U.K./Germany or Exact Equivalent imported.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Scientific Technical Corporation (Pvt.) Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Absorbance Reader Model: ELx800, BIOTEK INSTRUMENTS INC., USA , Reading speed:96 wells: 30 seconds, Physical Characteristics Power: 100-240 Volts AC. 50/60 Hz. Dimensions:15"W x 16.5"D x 7"H (38.1 x 41.9 x 17.8 cm) Specification Local Arrangement	Rs.582,660/- each
		A). Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. Minimum System Requirements: • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions)	Rs.111,735/- each
		B) Printer Epson. To be used direct with Elx800.	Rs.52,650/- each
		C) Computer System, Core i3 with 18.5" LCD, Standard	Rs.79,560/- each
2.	M/S Talha Enterprises, Karachi	Absorbance Micro plate Spectrophotometer Model: EPOCH General ; Wavelength selection Monochromator Read methods End point, kinetic, spectral scan, well area scan Microplate types Microplate types 6- to 384-well plates,Other labware Take3™ Micro-Volume Plate, BioCell Software Gen5™ Data Analysis Software Automation BioStack™ and 3rd party automation compatible ('R' configuration). Absorbance Light source Xenon flash Wavelength selection Monochromator, selectable 1 nm or greater increments Wavelength range 200 nm-999nm, selectable in 1 nm increments Bandwidth 5 nm, Dynamic range 0-4.0OD. OD Reading speed 96 wells: 15 seconds 384 wells: 31 seconds. Made by Biotech USA	Rs.1,925,000/- each
3.	M/S Roghay Sons, Karachi	ELISA MICROPLATE READER, Model ELX 800 Technical Specification: Detection modes, Absorbance, Read methods, End point, kinetic and area scanning under computer control Microplate types 6- to 384-well plates,60/72/96-well Terasaki plates, Light source: Tungsten halogen Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Dynamic range: 0 to 3.0 OD, Resolution:0.001 OD, Filters supplied:4 filters, OD repeatability:<0.5% at 2.0 OD, Reading speed:96 wells: 30 seconds, Regulatory:For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant, Mfr. Biotek,USA,	Rs.799,000/- each
		Additional Accessory.	
		(a) Gen 5 Software.	Rs.179,999/- each
		(b) PC latest available.	Rs. 99,999/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of Rs.582,660/- and additional accessories Rs.111,735/-, Rs.52,650/- & Rs.79,560/- as per given specification.

3	<p>Auto micro plate washer with accessories strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Thermo, Bio Tech, Bio Rad, UK, USA, Germany or exact equivalent.</p>
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Scientific Technical Corporation (Pvt.) Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Assays: ELISA (Cell-based assays) Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types:96 well. Maintenance: Pre-programmed maintenance routines. Magnet: High strength 96-well format. Washing Manifold Types:96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds Volume Range: 25 - 3,000 µL/well (configuration dependent). Selectable in 1 µL increments. Flow Rates: 1 - 9. Wash Cycles: 1 - 10. Supply Bottle: 2 L. Physical Characteristics Power: 100 - 240 Volts AC. 50/60 Hz. Dimensions: 14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm).</p>	Rs.582,660/- each
2.	M/S Talha Enterprises, Karachi	<p>Microplate Elisa Washer Model: ELX50/8 Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300µL/well, 96-well (16-channel) Operating 15C to 40C, Biomagnetic Separation No Wash Cycles: 1 to 10, Volume Range: 25 to 3000µL/well, Fluid Delivery: Internal positive displacement syringe pump Buffer Selection: Optional switching of up to 3 wash buffers Dispense Precision: _ 3% CV, Residual Volume:_ 2µL/well, Onboard Software:75 programs, Program linking, Overflow wash/overflow, protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) , Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg) Power: Compatible with 100 to 240 V~ 10% at 50-60 Hz 4070513S 12 Channel Manifold Biotech USA</p>	Rs.635,000/- each
3.	M/S Roghay Sons, Karachi	<p>ELISA MICROPLATE WASHER, Model ELX50 General: Syringe drive fluid delivery system for precise control over all fluid flow rates, Wash single strips or full plates, 96- and 384-well microplates Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance Automatic buffer switching, Create, edit, delete and copy up to 75 programs from the keypad Link up to 10 programs to run the most complex routines, Multi-user friendly; Mfr. Biotek, USA</p>	Rs.799,000/- each.

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of Rs.582,660/- each as per given specification.

4	<p>ELISA reader with Microplate washer</p> <p>a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported.</p> <p>with</p> <p>b). Microplate washer with accessories; strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p>
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Scientific Technical Corporation (Pvt.) Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>A) Elisa Reader with Microplate Washer Model: ELx800, BIOTEK INSTRUMENTS INC., USA. General. Detection modes: Absorbance Read methods:End point, kinetic and area scanning under computer control. Microplate types: 6- to 384-well plates. Software: Gen5 Reader Control Software. Onboard software: 55 user-programmable protocols. Absorbance: Light source: Tungsten halogen. Wavelength selection:Filters Wavelength range: 400 to 750 nm. Bandwidth:10 nm. Dynamic range: 0 to 3.0 OD. Resolution: 0.001 OD. Filter wheel capacity: 5 positions. OD accuracy:<1% at 2.0 OD OD linearity:<1% at 2.0 OD, <3% at 3.0 OD OD repeatability: <0.5% at 2.0 OD. Reading speed:96 wells: 30 seconds.</p> <p>B). Auto plate Washer. Model: Elx50, BIOTEK INSTRUMENTS INC., USA. General. Assays:ELISA. Cell-based assays. Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types: 96 well. Washing Manifold Types: 96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds. Volume Range: 25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments. Flow Rates:1 - 9. Wash Cycles: 1 - 10. Dispense Precision:≤3% CV Residual Volume: Solid bottom plates ≤2 µL/well <u>Filter bottom plates</u> Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted</p>	Rs.1,165,320/- each.
		<p>A) Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. <u>Applications:</u> Gen5, used with BioTek microplate readers, supports many microplate applications in Absorbance, Top and Bottom. Fluorescence, Flash and Glow Luminescence, Time-Resolved. Fluorescence and Fluorescence Polarization, including: Calcium Uptake. Nucleic Acid Quantitation. Protein Assays. Dual-Luciferase® Assays. Enzyme Kinetics. Live/Dead Assays. Cell Proliferation Studies. ELISA, FRET Assays, Endotoxin Analysis. GFP Assays, BRET, HTRF® <u>Minimum System Requirements:</u> • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions), • Intel® Pentium® III-Class PC or compatible processor (500 MHz or higher), • 512 MB RAM or higher 2 GB Hard Drive space, • Designed for XGA Resolution at 1024 x 768, • CD-ROM drive, • Keyboard, • Mouse, Microsoft® Internet Explorer® v 5.0 or higher (for Online Help), Microsoft Excel® 2000 or later (for Quick Export and Power Export™ feature)</p>	Rs.111,735/- each
		B) Printer Epson To be used direct with Elx800.	Rs.52,650/- each
		C) Computer System, Core i3 with 18.5" LCD, Standard Specification Local Arrangement	Rs.79,560/- each

2.	M/S Roghay Sons, Karachi	ELISA MICROPLATE READER Model ELX 800, General. Detection modes: Absorbance, Read methods: End point, kinetic and area scanning under computer control. Microplate types 6- to 384-well plates. 60/72/96-well Terasaki plates (NB option). Light source: Tungsten halogen. Wavelength selection: Filters. Wavelength range: 400 to 750 nm. Bandwidth: 10 nm. Dynamic range: 0 to 3.0 OD Resolution: 0.001 OD. Filter wheel capacity: 5 positions Filters supplied: 4 filters. Regulatory: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant. Mfr. Biotek, USA.	Rs.799,000/- each
		(b) ELISA MICROPLATE WASHER, Model ELX50, General Syringe drive fluid delivery system for precise control over all fluid flow rates. Wash single strips or full plates. 96- and 384-well microplates. Unique priming trough built into removable microplate carrier for effortless priming and easy maintenance. Automatic buffer switching. Create, edit, delete and copy up to 75 programs from the keypad. Link up to 10 programs to run the most complex routines. Multi-user friendly; total programming control for complex research applications, yet easy to use for routine clinical work. Programmable shaking duration and intensity. Built-in maintenance programs. Bottom washing and crosswise aspiration protocols. Small footprint with integrated dispense and waste pumps. Aerosol cover for safety. Mfr. Biotek, USA	Rs.799,000/- each
		Addition Accessory	
		(I) Gen 5 software	Rs.179,999/- each
		(II) Computer with LED Screen.	Rs.99,999/- each
			Rs.1,598,000/- Each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.1,165,320/-** each as per given specification.

5	Single channel pipette 10-100µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable. With Calibration Certificate. Cat. No: 825.0100, Serial: Acura 825, SOCOREX, SWITZERLAND. Volume Range: 10 – 100µl.	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable Tip Holders and Tip Ejectors are fully Autoclaveable, Up to 50% deduction of pipetting and purge forces Ranges as follows:- Measuring Range 10 to 100µl, Accuracy ±0.15µl Cat No. F144564, Model P100N, Gilson Made in France.	Rs.56,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat#4073) Make: Corning each.	Rs.42,650/-each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

6	Single channel pipette 20-200µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable. Individually Calibrate, Fully Autoclaveable With Calibration Certificate. Cat. No: 825.0200, Serial: Acura 825. SOCOREX, SWITZERLAND. Volume Range: 20 – 200µl	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 20 to 200µl, Accuracy ±0.30µl Cat No. F144565, Model P200N , Gilson Made in France	Rs.56,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 20 TO 200 (Cat#4074) Make: Corning	Rs.42,650/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

7	Single channel pipette 5-20µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate Cat. No: 825.0020, Serial: Acura 825 SOCOREX, SWITZERLAND. Volume Range: 2 – 20µl	Rs.32,175/- each.
2.	M/S AL-Beruni Scientific Store, Hyd	Measuring Range 2 to 20µl, Accuracy ±0.060µl Cat No. F144563, Model P20N , Gilson Made in France.	Rs.56,000/- each
3.	M/S ScienTech Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 2 TO 20 (Cat#4072) Make: Corning each.	Rs.42,650/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

8	Single channel pipette 5-50µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable ,Individually Calibrate, Fully Autoclaveable, With Calibration Certificate, Cat. No: 825.0050, Serial: Acura 825, SOCOREX, Switzerland. Volume Range: 5 – 50µl	Rs.32,175/- each
2.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 10 TO 100 (Cat#4073), Make: Corning each.	Rs.42,650/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

9	Multi Channel (8 channel) pipette 10-100µl. adjustable (micro litre), autoclaveable Eppendorf/ Socorex/ Kartel or exact equivalent imported..
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Multi Pipettes 8-Channel , Cat No. 855.08.200, Serial: Acura manual 855, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 20 – 200µl, Division: 0.2µl	Rs.78,975/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Pipetman L Multi channel , the Multichannel version also offers an extremely lightweight pipette, new shape ensures a perfect fit. adjustable tip ejector button has also been implemented to adapt to both right- and left-handed users. PIPETMAN L is an adjustable volume pipette that features a Gilson patented volume locking system. GLP Features, Convenient GLP features to PIPETMAN L, Additional GLP features include: Traceable serial number, Color-coded push-button Unique 2D identification bar code, Volume range 20 µl to 300 µl, Eight Channel Cat No. FA10016, Model P12x 300L Gilson Made in France.	Rs.164,000/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS PIPETTOR 8 CHANNEL 20 TO 200 (Cat # 4082) Make: Corning each.	Rs.97,950/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.78,975/- each** as per given specification.

10	Single channel pipette 100-300µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable Individually Calibrate, Fully Autoclaveable, With Calibration Certificate Cat. No: 825.1000, Serial: Acura 825, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 100–1000µl, Division: 1 µl	Rs.32,175/- each
2.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 100 TO 1000 (Cat#4075) Make: Corning each.	Rs.42,650/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

11	Single channel pipette 0.5-10µl , adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt) Ltd, Lahore offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate, Cat. No: 825.0010, Serial: Acura 825, SOCOREX, Switzerland. <u>Specifications:</u> Volume Range: 0.5 – 10µl Division: 0.01µl	Rs.32,175/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Gilson Micro pipettes Adjustable built to last constructed of stainless steel and PVDF with unique dry seal technology thick body robust accurate and precise individually calibrated, Tip Holders and Tip Ejectors are fully Autoclaveable, Up to 50% deduction of pipetting and purge forces Ranges as follows:-Measuring Range 1 to 10µl, Accuracy ±0.040µl, Cat No.F144562, Model P10N, Gilson Made in France.	Rs.51,800/- each
3.	M/S ScienTec Karachi	LAMBDA PLUS SINGLE CHANNEL PIP 0.5 TO 10 (Cat#4071) Make: Corning each.	Rs.42,650/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.32,175/- each** as per given specification.

12	Distillator glass 4-litre P/H (single distillatory) , Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 4 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Distillation Apparatus all glass Borosilicate Glass fitted with metal element 3 KW capacity 4 Litre per hour, conductivity 4µs/cm, PH 5.5 to 6.5 Model IM-50, Irmeco Germany.	Rs.145,000/- each
2	M/S Talha Enterprises, Karachi	Distillator Glass 4-Liters P/H (Single Distillatory) Water Still Mono Distillation, with Shortage Tank Model: GFL2004. Capacity:4 liters / h. Conductivity approx. 2.3µs / cm at 25 °C *. Storage tank capacity 8 l, Cooling water required approx. 48 l / h. Minimum water pressure:3 bar to max. 7 bar. Exterior dimensions:(W x D x H) 620 x 330 x 460 mm. Electrical connection: 230 V / 50...60 Hz / 3.0 kW . Net weight approx.20.2kgs. Packing volume approx. 0.16 m3 Made By Germany	Rs.595,000/- each
3	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710 Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety . Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. Technical Specification: Out Put: 4 L. Wattage:3000 W. Voltage:230 V. Base Dimension:55 x 15 cm. M/s POBEL-SPAIN	Rs.275,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.145,000/- each** as per given specification.

13	<p>Trinocular Microscope image capturing digital camera with LCD display. Trinocular head: 45 degree inclined trinocular head, 360 degree rotatable for comfort viewing. Objectives: 4x,10x,40x,100x Eye piece:10x wide field antifungal treated, Magnification: 40x,100x,400x,1000x. Condenser: Abbe NA 1.25 (oil) with iris diaphragm. Illumination: Built in LED. Microscope colour video camera: CMOS C mount adapter, 10-12 mega pixel compatible with window 7 or 8 , AV & USB connector, Krusse, Leica, Nikon, Olympus Japan/ Germany/ UK/ USA or exact equivalent.</p>
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S Roghay Sons, Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Microscope Trinocular Research Antimould Treated Stand 45 degree Trinocular observation tube, quadruple Fixed revolving nose piece Semi-Plan objectives 4X, 10X, 40X spring and 100X spring oil immersion, Semi-Plan Objectives extend clarity to the edge of the image, moveable Abbe Condenser with focusing control with aperture iris Diaphragm for critical focus coarse and fine focusing, tension adjustment, with built in low drive, mechanical stage with smooth moving coaxial controls, wide field eye piece 10X paired complete unit with standard accessories, built in variable Light Source Halogen Light 6Volt 20W, operated on 220 Volts, Model IM-910 Irmeco Germany. WITH Camera Color Microscopy Meiji Techno's milestone HD1000T HD color microscopy camera is a full- featured, standalone, HDMI scientific imaging solution offering full 1080p60 preview with perfect color reproduction and extremely fast frame rate streaming direct to monitor. You can operate the camera by directly connecting to a monitor without a PC and save images into an on-board microSD card, or use it as a standard USB 2.0 camera. The camera quickly reacts to lighting changes in any life science, clinical or material applications. With video output via HDMI connector, the on-camera buttons allow easy access to feature settings. Specifications HDMI C-mount camera. Frame speed 60 fps. Live resolution 1920x1080. Still resolution 3264x1836. Video record: 720P 12.5fps. Output: HDMI, USB 2.0, microSD. 1/3" CMOS chip (use .3x C-mount adapter). Button (1) controls: Exposure, White balance, Gamma, Gain,. Sharpness, Saturation, Contra. Button (2) controls: Cross line, Image Compare, Image Freeze. OS support: Windows XP and later. Software: IS Capture full parameter control. Model HD1000T and 32" LCD Complete set Meji Techno, Japan</p>	Rs.539,000/- each
2.	M/S ScienTec Karachi	<p>Trinocular Microscope with digital camera Model: B-193, Make: Optika, Italy, Key features: Head: TRINOCULAR 360 □ rotating 30 □ inclined with adjustable interpupillary distance and dioptic compensation Objectives: 4x10x40x100x, Stage: Double Layer, 125x115mm with 70x30mm, X-Y moving range Illuminator: X-LED₂ system with adjustable intensity. Camera: 8MP digital camera with optical adapter & Measuring software, 2.4" LCD display.</p>	Rs.458,060/- each

3.	M/S Roghay Sons, Karachi	Trinocular Microscope with Camera Model H-600 with camera, Supplied with (1.Trinocular Head. 2.Eyepiece WF 10X. 3.PLAN ACHROMATIC LENS 4X. 4.PLAN ACHROMATIC LENS 10X. 5.PLAN ACHROMATIC LENS 40X. 6.PLAN ACHROMATIC LENS 100X. 7.Microscopy Camera) Mfr. HundWetzler, Germany.	Rs.412,000/- each.
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Procurement Committee may approve purchase from the 1st lowest bidder M/S Roghay Sons, Karachi @ the rate of **Rs.412,000/- each** as per given specification.

14	Refrigerator 18cft. Specification: Wide body. Temperature control. Detached door gasket for easy cleanup and change. VC. Semi-automatic ice maker. Wide voltage fluctuation resistance. Handle and lock integration Dawlance, Weaves or exact equivalent with higher specification.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Habib & Sons, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Refrigerator 18cft. Laboratory Refrigerator Model: HLR125 5103125-1-50 Temperature Range 2°C to 10°C. Interior Dimensions (w x h x d) 24.75" x 58.25" x 30.25" . 629mm x 1480mm x 769mm Exterior Dimensions (w x h x d) 29.5" x 78.75" x 35.5" . 750mm x 2001mm x 902mm. Overall Exterior Dimensions (w x h x d) 29.5" x 78.75" x 38.5" . 750mm x 2001mm x 978mm. Includes door handle, electrical panel, and evaporation tray Interior Volume 25.2 cu ft / 714 liters. Door Dual-pane glass. Interior Configuration 4 adjustable full-size shelves: 22" x 29" . (559mm x 737mm). Plug / Cord Detail 8-10 ft (2439-3048mm). Compressor . 33 HP, air-cooled. Refrigeration R-134A non-CFC Electrical 230V 50Hz 4.2 FLA Net Weight 481 lbs / 219 kg. Clearance Requirements Minimum of 8" (204mm) above and 3" (77mm) . behind refrigerator for ventilation.. Allow 1.5" (39mm) width for Access Control. Rel.i™ warranty: 5 years compressor, 2 years parts. • Temperature controller with alarm/monitor. LED digital display. - Programmable operating temperature range. - Single temperature probe. - Programmable high and low temperature alarms with visual and audible indicators. • Air-cooled, forced-air refrigeration system for uniform temperature and quick recovery. • Reduced humidity levels limit condensation on boxes and other containers. • Adjustable LED spot lighting with on/off switch. • Bacteria-resistant powder coated interior, exterior and door handle. • Innovative Sure-Seal door system with magnetic closure Made by USA.	Rs.1,450,000/- each
2.	M/S Burraq Business Corporation, Hyderabad	Dawlance Model 91996	Rs.151,794/- each
		Waves Model 2180	Rs.95,000/- each
3.	M/S Habib & Sons, Hyderabad.	Model 91996 Mono, Dawlance/ Waves/ Orient, As per tender specification.	Rs.90,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Habib & Sons, Hyderabad @ the rate of **Rs.90,000/- each** as per given specification.

15	Visicooler 4°C refrigerator upright temperature controlled. upright temperature: display 500 liter, carevell or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Carevell	Rs.148,000/- each
2.	M/S Talha Enterprises, Karachi	Carevell	Rs.155,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.148,000/- each** as per given specification.

16	Micro wave oven: Interior volume approx. 30 lit, Adjustable output stages, Digital display for time of day or count-down, 30-min. timer with acoustic signal, Removable glass rotary plate (Ø approx. 245 mm), Electrical supply 220-230 V, 50 Hz, Dawlance, Orient, LG, PEL, or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Homage 34 liter.	Rs.21,500/- each
2.	M/S Habib & Sons, Hyderabad.	Model 115CH2 Dawlance/ Orient. As per tender specification.	Rs.28,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.21,500/- each** as per given specification.

17	<p>Incubator. Bench top Horizontal, Capacity: 50-55 liters, Temp. Range: Ambient +5°C to 70°C, Accuracy: $\pm 0.2^\circ\text{C}$, Controller: Digital, Display: LCD, Material: Stainless steel, Shelves: 2 Teflon coated, adjustable position, Viewing Window: glass door safety devices, Overtime, over current protector, sensor error detector. Application: Micro organism culture, USA, UK, Germany, or exact equivalent imported.</p>
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Six firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S ScienTec Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Oven Forced Convection type Horizontal Flow, With Digital Fuzzy Control , Model: WOF-50, WITEG, GERMANY. <u>Technical Specification:</u> Air Flow Type: Forced Convection type, below FAN, Capacity: 50 lit. Temp. Range: Ambient +5 °C to 250 °C. Temp. Accuracy: $\pm 0.3^\circ\text{C}$ at 100°C. Temp. Uniformity: $\pm 1^\circ\text{C}$ at 100°C. Temp. Sensor: PT1100 PT100. Heating power /Consumption: 900 W. Heating-up Time: 15 min. to 100oC, 25 min to 150oC. Recovery time (door 30Sec): 3min to 100oC, 25min to 150oc Timer & Alarm: 99hr 59min (with delay/continuous run), error status timer end. Display: Digital LCD display with back light function. Controller: Digital fuzzy controller with jog-shuttle switch (turn + push). Shelves: 2ea, including stainless steel wire shelves. Load per rack: 32 kg (16kg x 2 shelves). Ventilation: Ventilation hole (id. Ø40mm) with stainless steel cap. Safety circuit: Over temp. and over current protector, sensor error detector. Material Internal: Stainless steel (# 304). Material External: Powder coated steel. Material Insulation: Glass wool. Dimension internal (mm): 370 x 340 x 420. Others: Storage function (Temp. Timer). Locking mode (Jog-Shuttle input disabled). Power Consumption: 900 W. Power Supply: 220 volt, 50/60 Hz.</p>	Rs.222,300/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Incubator Memmert Precision, Adaptive, multifunctional Digital PID-Microprocessor controller with High-Definition TFT-Color Display. Temperature range 10°C above ambient up to +80°C. Resolution of display for set point values 0.1°C. Double doors (interior glass, exterior stainless steel) . Adjustment of pre-heated fresh air admixture . by air flap control in 10% steps, digital timer adjustable from 1 minute to 99 days, 23 hours. adjustable electronic overtemperature monitor and mechanical temperature limiter, protection class 1. Double Over Temperature Protection. Interior & Housing made of Stainless Steel. Set point WAIT function - the process time does not start until the set temperature is reached. Programme Stored in Case of Power Failure. Operated on 220volts, IN Series. Capacity 53 Lit, interior dimension: 400 x400x330mm with Two stainless steel trays, Model IN-55, Memmert, Made in Germany.</p>	Rs.348,000/- each
3.	M/S Talha Enterprises, Karachi	<p>Cat # 51028130 Model: IGS60, General Purpose Microbiological Incubators . Convection technology Gravity convection. Temperature range °C ambient +5 °C to 75 °C. Spatial temperature deviation at 37 °C$\pm 0.6^\circ\text{C}$. Temperature deviation over time at 37 °C $\pm 0.2^\circ\text{C}$. Footprint m2 / sqft 0.3 / 3.2. Chamber volume L / cuft 75 / 2.6. Dimensions chamber, mm / in (WxHxD) 354 x 508 x 414 / 13.9 x 20.0 x 16.3. exterior*, mm / in (WxHx D) 530 x 720 x 565 / 20.9 x 28.3 x 22.2. Number of shelves supplied / max 2 / 13. Max. shelf load kg / lb 25 / 55. Rated voltage / frequency V / Hz 230 / 50. Rated power / max. current W/A 300 /1.3. Weight kg /lb 40 / 88 Made by Germany 12 Month Warranty</p>	Rs.495,000/- each

4.	M/S ScienTec Karachi	Forced Convection Laboratory Incubator Microprocessor PID Controlled Dual Display Digital Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	Rs.220,000/- each
5.	M/S World Wide Scientific Karachi	CAT# CLN53. INCUBATOR, MODEL NO: CLN 53 TECHNICALS SPECIFICATOINS: Air Convection: Natural (CLN). Chamber Capacity: 56 L, Door Type: Glass and Solid. Temperature Range: 5° above ambient temperature ...+100°. Controller: Microprocessor with external LCD Graphic display. Interior: Acid-proof stainless steel according to DIN 1.4301. Housing: Stainless steel. Overall dim (WxHxD): 595x700x600 mm. Internal dim (WxHxD): 395x395x360 mm. Nominal Power (W): 400. Temperature Fluctuation at +37°C: ±0.1. Temperature Variation at +37°C:±0.3, Temperature Resolution: every 0.1. Shelves Fitted: 2. Voltage: 230 V M/s POLEKO-AAPARTURA- POLAND	Rs.325,000/- each
6.	M/S Roghay Sons, Karachi	Laboratory Incubator, Model RI 53, Volume 53 Liter, Mfr. Binder-World GMBH, Germany	Rs.350,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S ScienTec Karachi @ the rate of **Rs.220,000/- each** as per given specification.

18	pH meter microbiology lab. Use. Desktop ph meter with ph and temp. Electrode, Range pH 0.00 to 14.00 pH (full scale), Temperature 0 to 60 °C or 32 to 140 °F, Resolution pH 0.01, Accuracy Temperature 0.1 °C or 0.1 °F, Combination waterproof pH tester / thermometer, Dual Level Display Shows pH & Temperature, Temperature in °C and °F, Percent Remaining Battery Indicator, Replaceable pH Electrode, Hanna, fisher, CarlRoth, Acculab, or exact equivalent.
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Six firms participated; four firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Precision pH/ORP/Ion^oC/^oF Meter Model: Bante930 BANTE Instruments Co., Ltd. USA. Bante 930 is high accuracy meter used for measuring pH, Oxidation-Reduction Potential (ORP) and ion concentration. <u>Meter Included:</u> pH & ORP Electrode, pH Buffers, Temperature Probe, Electrode holder Arm, 9V Power Adapters. <u>Specifications:-</u> pH Range: -2.000~16.000pH, pH Accuracy: ±0.005pH. ORP Range: 0 to ±1999.9mV. ORP Accuracy: ±0.2mV, Ion Concentration Range: 0~19999ppm, Ion Concentration Accuracy: ±0.5% F.S (Monovalent), ±1% F.S (Divalent). Temperature Range: 0.0 to 100.0°C, 32 to 212°F. Temperature Accuracy : ±0.3°C, ±0.5°F pH Calibration Points: 2 points, NIST (pH4.00/6.86/9.18) or USA (pH4.01/7.00/10.01) Ion Calibration Points: 2 to 5 points, (10 ⁻² /10 ⁻³ /10 ⁻⁴ /10 ⁻⁵ /10 ⁻⁶ mol/L). Temperature Compensation: 0 to 100°C, Manual or Automatic. Built-in Ion Modes: Na, Ag, K, NH ₃ , CL, F, Ca, No ³ , Pb, I, Cu, Br, CN. Memory & output: 99 Data sets with Date/Time stamping USB. Power Requirements: DC9V, using AC adapters, 220VAC/50Hz. Dimensions: 210 (L) x 188 (W) x 60 (H) mm	Rs.204,750/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	pH Meter Digital Bench Model Microprocessor Controlled with parallel Temperature indication, PH Range -2.0 to 20.0 ±0.1pH, PH Resolution 0.005pH, MV Range ±1200.0mV, Accuracy mV ±- 0.3mv, Automatic Temperature Compensation, Temperature Range -5 to +105.0°C, Temperature accuracy ±0.1°C with two/three point Calibration System, Battery operated as well as operated with 220 Volts Complete with following accessories:- a)Black Electrode stand with base. b)Plastic Beaker 50 ml. c)3MKCL Solution 50 ml. d) Calibration Standard solutions PH 4, 7 & 10 50ml each. e)PH Electrode precision Type with Built in Temperature Sensor. Complete Package Model Inolab PH 7110/Set WTW Made in Germany.	Rs.215,000/- each

3	M/S ScienTec Karachi	pH Meter Bench Top, Model: Eutech pH 700 Make: EU-Tech Instruments.	Rs.118,500/- each
4	M/S World Wide Scientific Karachi	CAT# HI 2211. BASIC PH/ORP BENCHTOP METER Benchtop pH/ORP and °C meter. FEATURES: Simple to operate Automatic Temperature Compensation. Automatic calibration Calibration expiration reminder. ORP range BASIC PH BENCHTOP METER Range (pH): -2.00 to 16.00 pH. Range (mV): ±399.9 mV, ±2000 mV. Range (Temperature): -20 to 120.0°C, Resolution (pH): 0.01 pH. Resolution (mV):0.1 mV; 1 mV, Resolution (Temperature):0.1 °C. Accuracy (pH): ±0.01 pH, Accuracy (mV): ±0.2 mV. Accuracy (Temperature): ±0.4 °C pH Calibration: Automatic, 1 or 2 point with 5 memorized buffer values (pH 4.01, 6.86, 7.01, 9.18, 10.01). Temperature Compensation: Automatic manual from -9.9 to 120 °C pH Electrode: Single junction, BNC connector, 1 m cable (included), Power Supply: 12 VDC adapter (included) M/s HANNA INSTRUMENTS-EUROPE.	Rs.150,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S ScienTec Karachi @ the rate of **Rs.118,500/- each** as per given specification.

19	Electric Fan wall mounting iron body. 16", Pull cord system, wall bracket Fan, Millat or exact equivalent with higher specification.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Habib & Sons, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Electric Fan Wall mounting iron body 16" Royal & 18" Millat	Rs.7,000/- each
2.	M/S Habib & Sons, Hyderabad.	Royal 18" /Millat 16", As per tender specification.	Rs.4,800/- each
3.	M/S Burraq Business Corporation Hyderabad.	Millat 16	Rs.6,500/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Habib & Sons, Hyderabad @ the rate of **Rs.4,800/- each** as per given specification.

20	UV light wall mounting. 30-40 watt, 220-230V, Intensity 15u w/ cm2, wall mounting, with replaceable tubes & starters Philips or exact equivalent imported.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	UV Light wall mounting 30-40 watt, 220-230V China	Rs.6,950/- each
2	M/S Habib & Sons, Hyderabad.	Phillips. As per tender specification.	Rs.8,200/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.6,950/- each** as per given specification.

21	Solar energy panel system (solar panel 1500watts, Charge controller 63Ampere, Inverter 1267watts , Battery 1293Ah) with installation.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Habib & Sons, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Solar Energy Panel system Solar panel 1500 watts charge controller 63Ampere inverter 1267 watts battery 1293AH with installation	Rs.1,445,000/- each
2.	M/S Habib & Sons, Hyderabad.	Specification of Solar Energy Panel system 1500 watts for Dry battery, Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Dry battery (AGM type):1400 ampere, Solar panel warranty:25years Battery:01 year, System warranty:01 year with free service, Existing system load back-up:6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system is made in china.	Rs.1,330,000/- each
		Specification of Solar Energy Panel system 1500 watts for Gel battery. Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Gel battery (power safe /Narada):1400 ampere, Solar panel warranty:25 years, Battery:01 year, System warranty:01 year with free service, Existing system load back-up: 6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system made in china.	Rs.1,330,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Habib & Sons, Hyderabad @ the rate of **Rs.1,330,000/- each** as per given specification.

22	Stabilizer1000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Habib & Sons, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 1000volts servo motor copper wire with timer Stabmatic	Rs.11,000/- each
2.	M/S Habib & Sons, Hyderabad.	Model:SF1000VA, warranty: one year, STABIMATIC UK.	7,200/- each
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 1000volts Servo motor copper wire with timer. Stabmatic	8,500/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Habib & Sons, Hyderabad @ the rate of **Rs.7,200/- each** as per given specification.

23	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 3000volts servo motor copper wire with timer Stabmatic	Rs.33,000/- each
2.	M/S Habib & Sons, Hyderabad.	Model GL 3000 VA, Warranty one year, STABIMATIC UK.	19,500/- each
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic	Rs.19,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.19,000/- each** as per given specification.

24	Stabilizer5000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Talha Enterprises, Karachi	Stabilizer 5000 volts servo motor copper wire with timer Stabmatic	Rs.46,500/- each
2.	M/S Habib & Sons, Hyderabad.	Model: GLD 5000VA, Warranty: one year, STABIMATIC UK.	Rs.32,000/- 3ach.
3.	M/S Burraq Business Corporation Hyderabad.	Stabilizer 5000volts Servo motor copper wire with timer. Stabmatic	Rs.21,500/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.21,500/- each** as per given specification.

25	<p>Tabletop Refrigerated centrifuge, Eppendorf, Sigma, Thermo, or equivalent. Temp. Variable from -20 to +40 °C in 1 °C-increments, Max. speed (in microlitre rotor) 15 000 min⁻¹, adjustable to steps of 10 , Min. speed 500 min⁻¹, Operation time 1 to 99 min, continuous run, impulse key, Temperature range 20 to +40 °C , Rotors and accessories: 24 x 1.5/2.0 ml, 8 x 50 ml, 8 MT- plates and 4 x 50 ml , Power supply 220-240 V, 50/60 Hz , Automatic rotor recognition, Optional display of min⁻¹ or x g upon entry of rotor radius, Simple rotor change, Window in lid Metal housing, Security: emergency unlocking device, motor overheating protections, unbalance switch-off, Operation manual Eppendorf, Sigma, Thermo, or exact equivalent.</p>
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Five firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Tabletop Refrigerated Centrifuge Model: 5500, KUBOTA, JAPAN Specifications: - Maximum Speed: 15,000rpm. Maximum RCF: 21,040xg. Maximum Capacity: 1,020mL. Control system: Micro-processor control (Brushless motor) Speed, RCF, Time, g-sec, Acceleration & Deceleration, Temperature, 5 channel memories. Alarm display: Lid open, Imbalance, Over speed, Abnormally high temperature Function for detecting an occurrence of electrical abnormality in motor, inverter, lid interlock and speed sensor, temperature sensor Acceleration / Deceleration: Three-level selectors; Rapid, Slow and Super Slow. Speed setting: From 200 to 15,000rpm, 10rpm increments. Speed indication: Digital display, From 0 to 15,500rpm, 10rpm increments. RCF setting: From 10 to 20,630xg, 10xg increments (adjustable to actual rotation radius). RCF indication: Digital display, From 0 to 22,030xg, 10xg increments (adjustable to actual rotation radius) Integrator setting and indication: Digital display, From 1.00 to 9.99x10⁹ g-sec. Timer setting and indication: Digital display, with Hold and Memory Flashing from 1 sec to 100 sec, in 1 sec increment setting / indication from 100 sec to 990 sec, in 10 sec increments setting / 1 sec increment indication from 1 min to 100 min, in 1 min increment setting / indication from 100 min to 990 min, in 10 min increments setting / in 1 min increment indication Temperature setting and indication (chamber): Digital display, 1°C increments setting and indication from – 20°C to 40°C with Pre-cooling Refrigerant: R134a. Power requirements: Single phase AC110V±10%, 15A. Single phase AC115V±10%, 15A. Single phase AC220V±10%, 10A. Single phase AC230V±10%, 10A. Rated voltage and Rated current: 110V 9.1A, 115V 8.7A, 220V 4.6A, 230V 4.4A. Power consumption and Heat output: 0.78kW 2.8MJ/h, Dimensions: 70(W) x 65(D) x 36(H). Certificates of Conformity: IEC 61010-2-020 CE Marking (AC220V and 230V Version) a)Micro Rotor. Cat. No. AT-2724M Multi-angle rotor 3 types of tubes, 2mL, 0.5mL and 0.2mLPCR can be used without adaptors. b) Fixed Angle Rotor Cat. No. RA-410M3 8 x 50/15mL Conical tube This rotor is not a tool-less rotor. c)Plate Rotor Cat. No. PT-21M PT-21M can do ethanol precipitation at 3,100xg d) Swinging Bucket Rotor Cat. No. ST-410M 12 x 15mL Conical tube.</p>	Rs.2,983,500/- each.

2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Centrifuge Machine Refrigerated 230 V 50 Hz, speed range of 16000 rpm, Pre-selection of running time from 10 sec to 99h 59min or continuous, RCF 24321 xg, Temperature control range –20 to +40°C, Operated on 220 Volts, Model Z366K, Hermle Made in Germany.</p> <p>Special Features: • Simple one handed operation. • Easy to program with gloves on. • Foil Keyboard. Permanent indication of Preset and Actual Values. Selection of speed in both rpm and g-force, with increments of 10. 10 acceleration and deceleration rates, possibility of unbraked deceleration. Pre-selection of running time from 10 sec to 99h 59min or continues. Quick-key for short runs. Specifications: Maintenance-free induction drive. Microprocessor with large LCD display. Motor driven lid lock. Automatic rotor identification system with over speed protection upon rotor insertion. Active imbalance-identification and -cut off (rotor-specific). A large variety of rotors and accessoires. Audible signal at the end of each run with several melody options. Noise level under 63 dBA (depend on rotor) . Manufactured according to international safety regulations, i.e. IEC 61010 Complete without Rotor operated on 220 Volts, Model Z366K, Hermle Made in Germany.</p>	Rs.1,787,000/- each
		<u>ROTOR</u>	
		1-No. Angle Rotor capacity 10 x 50ml conical speed 9500rpm Cat No. 221.52V02 Hermle Made in Germany.	Rs.367,000/- each
		1-No. Angle Rotor capacity 24 x 1.5/2.0ml speed 16000rpm Cat No. 220.87V09 Hermle Made in Germany.	Rs.128,000/- each
		1-No. Swing Out Rotor capacity 2 x 3 MTP speed 4500rpm Cat No. 220.16V03 Hermle Made in Germany.	Rs.297,000/- each
		1-No. Angle Rotor capacity 6 x 50 ml speed 13000rpm Cat No. 221.22V02 Hermle Made in Germany.	Rs.297,000/- each
		Total set	Rs.2,876,000
3.	M/S Talha Enterprises, Karachi	<p>75007224 Centrifuge Refrigerated Model SL8 230V Temperature Range -10°C to 40°C Pre-Cooling Function Yes, with direct button Refrigeration System CFC free Control System Microprocessor. Drive System Direct,brushless induction drive. Rotor Locking System Auto-Lock rotor exchange Imbalance Detection System SMARTSpin Programs 3 direct program buttons, plus 96 additional programs accessible via folder, all with alphanumeric program naming Pulse (Short) Run Yes. Acceleration/ Deceleration Rates 2 (standard and soft) Centrifugation Chamber Brushed stainless steel Max Timer Range 9h, 59 min + continuous. Sound Level <56 dBA (with all rotor); <52 dBA (with MicroClick 24 rotor). Other Features • Certified1 ClickSeal biocontainment lids. Multilingual selection: English, Dutch, French, German, Italian, Russian and Spanish Max Power Consumption 750W</p> <p>Dimensions: Height (lid open) 70 cm (27.5 in) Height (lid closed) 32 cm (12.6 in) Width 46 cm (18.1 in) Depth 67 cm (26.4 in) Weight 71 kg (156 lb) Standards & Certifications Standards IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1 Certifications UL Listed / CE marked / IVD compliant3 / Certified1 biocontainment Swing Bucket Rotors Max Capacity 4 x 145 mL (with TX-150 rotor) Max Speed 4,500 rpm (with TX-150 rotor) Min Speed 300 rpm (with TX-150 rotor) Max RCF 3,260 x g (with TX-150 rotor) Fixed Angle Rotors Max Capacity 6 x 50mL (with HIGHConic III rotor) Max Speed 17,850 rpm (with MicroClick 24 rotor) Min Speed 300 rpm (with MicroClick 24 rotor) Max RCF 30,279 x g (with MicroClick 24 rotor) 75005715 Microclick 24x2 Rotor, 45°, Rmax 85 mm 01 971.00 Rotor Capacity (Places x Volume, ml) 24 x 1.5/2 Max Tube Dim (OxL, mm) 11 x 45 Max Speed RPM: 16,000, Max RCF (x g): 24,328. 75005706 MT-10 Swinging Bucket Rotor, 90°, Rmax 139 mm</p>	Rs.2,755,000/- each

		01 1,035.00. Rotor Capacity (Places x Volume, ml) 4 Standard or 2 Deep well. Max Tube Dim (OxL, mm) n/a. Max Speed RPM: 4,400 Max RCF (x g): 2,576. 75005701 TX-150 Swinging Bucket Rotor , 90°, Rmax 144 mm 01 792.00. Rotor Capacity (Places x Volume, ml) 4x145. Max Tube Dim (OxL, mm) 50x100. Max Speed RPM 4,500. Max RCF (x g) 3,260. 75005703 50ml Conical Buckets (unsealed no adapter needed) set/4 01 set 699.00, Rotor Capacity (Places x Volume, ml) 8x50, Max Tube Dim (OxL, mm) 29.5x120, 75005736 50ml Conical or Skirted Tube 01 set 238.00, Rotor Capacity (Places x Volume, ml) 4x50, Max Tube Dim (OxL, mm), 29.5x120, Made by Germany, 12 month warranty	
4.	M/S World Wide Scientific Karachi	<p>CAT# MPW-352R REFRIGERATED HIGH SPEED CENTRIFUGE</p> <p>The MPW-352R model is a refrigerated, desktop laboratory centrifuge with Temperature range: -20°C ÷ +40°C. It find application in medical, biochemical, veterinary, industrial as well as other laboratories. The construction of the centrifuge is based on the broad experience of the MPW Med instruments company and its many years of cooperation with laboratories and medical institutions. TECHNICAL SPECIFICATIONS: Power supply: 230V, 60Hz Maximum capacity: 4x250 ml(1 L). Minimum speed: 100 min⁻¹ Maximum speed: 18000 min⁻¹. Maximum RCF: 30065xg Time range: 0 ÷ 99 hrs., 99 min, 59 sec; infinite, 1 sec interval Temperature range: -20°C ÷ +40°C. Safety: imbalance warning, lid locking during motor run, emergency lid lock release, motor thermal protection. ROTORS: 24X1.5/2 ml, 180003 RPM, 30,065 RCF 8x50 ml, 5,500 RPM, 4,227 RCF 2x3 MTP (Standard), 4,300 RPM. 2,397 RCF. FEATURES: With cooling, Start when preselected time is reached, Start when preselected temperature is reached, Initial cooling without/with centrifuging, cooling after centrifuging, precise temperature stabilization. Maintenance-free induction motor Modern software system. Large graphic LCD. 99 user programs 10 acceleration/ deceleration curves. Programming of multi-section acceleration/ deceleration curves. RPM/RCF adjustment. Centrifugal radius adjustment for samples (with automatic RCF correction). Effective centrifuging time calculation. Centrifuging time adjustment. Continuous operation mode HOLD. "SHORT" time operation mode. Changing parameters during centrifuging. Rotor identification. Automatic lid opening. Motorized lid lock. Centrifuging parameters recording - PC computer (USB). Menu language setting. Selected menu functions blocking, Password protection. Broad range of rotors and additional equipment, Memory of the last 10 working cycles. Manual adjustment of density of samples >1,2g/cm³ (with automatic maximum speed correction) Safety: Unbalance warning. Lid locking during rotor run. Emergency lid lock release. Motor thermal protection. M/s MPW-POLAND-Made in Europe</p>	Rs.1,848,000/- each
5.	M/S Roghay Sons, Karachi	<p>Table Top Refrigerated Centrifuge. Model Z326 K. Technical data max. speed: 18000 rpm. max RCF:23545xg. max. volume:4 x 100 ml. Speed range:200 - 18000 rpm. Running Time:59 min 50 sec / 10 sec. increments 99 h 59 min / 1 min increments. Dimensions (WXHXD):40cm x 36 cm x 70 cm. Weight:60 kg. Power Input: 660 W. Mfr. Hermle-Labortechnik, GmbH, Germany.</p> <p>Additional Accessories.</p> <p>a) Micro rotor. Cat No. 220.87 V09, Capacity 24 x 1,5 / 2,0 ml, Speed 15000rpm.</p> <p>b) High speed Rotor Cat No.221.22 V02, Capacity 6 x 50 ml, Speed 12000rpm.</p> <p>c).High Capacity Rotor Cat No.220.97 V04 Capacity 6 x 50ml Speed 6000rpm.</p> <p>d) Microtitre Plate Rotor Cat No. 221.16 V03, Capacity 2 x 3 Microtitreplates, Speed 4500rpm</p> <p>Total:</p>	<p>Rs.1,460,000/- each</p> <p>Rs.179,999 each</p> <p>Rs.449,999/- each</p> <p>Rs.149,999/- each</p> <p>Rs.349,000 each</p> <p>Rs.2,588,997/- each set</p>

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,848,000/- each** as per given specification.

26	<p>Real Time PCR, Thermal Cycling System : BioRad, Eppendorf, MJ research, Stratagene or equivalent. 96-well block, Optical System CCD camera with halogen lamp excitation; OR LED, five-excitation and five-emission filters: Calibrated Dyes at Installation FAMTM/SYBR® Green, VIC®/JOETM, NEDTM /TAMRATM /Cy3®, ROXTM /Texas Red®, and Cy5®, Passive Reference Dyes ROX dye or any calibrated dye. Use of a passive reference dye is optional. Reaction Volumes 5-30µL 20-100µL, Sample Format Fast 96-well plates, optimized for 10 µl reactions, Peak Block Heating Rate 5.5°C 2.5°C, Temperature Range 4°C - 100°C 4°C - 100°C, Temperature Accuracy +/- 0.25°C of set point/display temperature, measured at 3 minutes after clock start, Temperature Uniformity +/- 0.50°C, 30 seconds after clock start, Software Specifications, Applications Comparative Ct, Standard Curve, Relative Standard, Curve, Allelic Discrimination, Plus/Minus, Dye Discrimination Multicomponenting algorithm, Multiplate Data Comparison Compare an unlimited number plates of gene expression assays .With original Company literature from principal company clearly verifying all specifications and user list and computer system with required software compatible with window 7 or 8. Warranty : One year from the date of installation and training Applied Biosystems, BioRad, Eppendorf, MJ research, Stratagene or exact equivalent.</p>
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks																		
1.	M/S World Wide Scientific Karachi	<p>CAT# TCR0096. PIKOREAL REAL-TIME PCR SYSTEM(96-WELL)</p> <p>FEATURES: PikoReal® Real Time System is light, quite and smallest footprint. Compatible with standard multichannel pipettes, reagent dispensers and automated liquid handling systems. Extremely low energy consumption, durable design and suitable field application. Precise temperature control. Five optical channels facilitate multiplexing. Stand alone or PC control. Reduced plastic and reagent consumption. TECHNICAL SPECIFICATIONS:</p> <p>THERMAL BLOCKS. Block Formats: 96 Wells. Sample Volume: 5 - 20µl Consumables: 96 Wells Piko PCR Plates. Max Heating Rate:>5°C / Sec. Max Cooling Rate: 4.5°C / Sec. Temperature Range: 4-99.9°C. Temperature Accuracy: ±0.2°C. Temperature Uniformity: ±0.3°C at 95°C. HEATED LID. Temperature Range: 30 - 110 °C. Control: Automatic Temperature and Pressure Setting. OPTICS: Excitation:5LEDs. Excitation Range: 475 – 640 nm. Detection: CCD. Detection Range: 520 – 740 nm. DETECTION CHANNELS</p> <table border="0"> <tr> <td>Excitation(nm)</td> <td>Emission(nm)</td> <td>Pre-Calibrated Dyes</td> </tr> <tr> <td>475-500</td> <td>520-550</td> <td>FAM, SYBR Green</td> </tr> <tr> <td>515-535</td> <td>557-590</td> <td>HEX, JOE, Yakima Yellow</td> </tr> <tr> <td>570-590</td> <td>615-650</td> <td>ROX, Texas Red</td> </tr> <tr> <td>600-640</td> <td>666-740</td> <td>CY 5</td> </tr> <tr> <td>475-500</td> <td>520-590</td> <td>SYBR Green for HRM, Single Plex FAM, SYBR Green</td> </tr> </table> <p>Multiplex: 475 – 640 nm, HRM: Yes, Dynamic Range: 10 order of magnitude. Scan time for 4 Multiplexing Channels: <10 sec SOFTWARE. Analysis Modes: Absolute quantification, Relative Quantification, Melt Curve Analysis, Allelic Discrimination. SYSTEM. Operating Systems: Windows XP, Windows 7, Communication: Ethernet, Up to 10 instruments can be operated from single PC. Power Usage: 200W Maximum. Dimensions (W x D x H): 300 x 230 x 310 mm. One year warranty and original company literature and computer system with required software M/s THERMO SCIENTIFIC</p>	Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes	475-500	520-550	FAM, SYBR Green	515-535	557-590	HEX, JOE, Yakima Yellow	570-590	615-650	ROX, Texas Red	600-640	666-740	CY 5	475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green	Rs.4,490,000/- each
Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes																			
475-500	520-550	FAM, SYBR Green																			
515-535	557-590	HEX, JOE, Yakima Yellow																			
570-590	615-650	ROX, Texas Red																			
600-640	666-740	CY 5																			
475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green																			

2	M/S Roghay Sons, Karachi	Real Time PCR Thermal Cycler, Rotor-Gene Q 5plex Platform, Supplied with 1.Real Time PCR 5 channels(Green, Yellow, Orange, Red, Crimson). 2.Computer. 3.Software. Model Qaigen, Switzerland , Cat # 9001570, Instrument Rotor-Gene Q 5plex platform, Description: Rotor-Gene Q 5plex platform, Real-time-PCR cycler with 5 channel (green, hellow, orange, red, crimson), laptop computer, software, accessories: Includes 1-year warranty on parts and labor, installation and training included. Warranty of the system: Warranty period will be 1-years with part and Labour.	Rs.6,399,999/- each
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Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.4,490,000/- each** as per given specification.

27	2KVA online UPS with Two hour back-up Branded. uninterrupted power supply capacity 2000VA/1400W, transfer time from invert to bypass zero in built batteries 8x12V 7Ah, Stabimatic (ONL-2000B) or exact equivalent. branded & imported.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Habib & Sons, Hyderabad.	Model ONL-3000, Warranty one year, STABIMATIC UK, Capacity 3000VA, Transfer time from inver to bypass zero. built in batteries 8 x 12v 7 Ah, Long back-up 2 hours.	Rs.105,000/- each
2.	M/S Burraq Business Corporation Hyd	2KVA online UPS with Two hour back-up, branded & imported.	Rs.99,500/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.99,500/- each** as per given specification.

28	<p>Ultra low upright freezer -86°C, Sanyo, Revco, Thermo or equivalent. Adjustable temperature range from -10°C~ -86°C with an increment of 1°C, Interior Volume 18-20cu.ft, Microprocessor temperature control, Digital temperature display, Malfunction alarm includes audible and flashing alarms for high temperature, low temperature, incorrect voltage setting, sensor failure ,condenser efficiency defect, high ambient temperature, and power failure, Adjustable high and low temperature alarm set points, Multiple shelves for storage of various sizes for samples, Safety lock to prevent unauthorized access, Sanyo, Revco, Thermo or exact equivalent.</p>
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Five firms participated; four firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Digital Ultra Low Temperature Freezer Upright Type Simplified Freezing System Model: WUF-700, WITEG, GERMANY. <u>Technical Specification:</u> Capacity: 714 Lit., Freezing System: Simplified Hi-efficiency freezing system (SHFS™) Temp. Range: -86°C ~ -65°C at room Temperature of 30°C and humidity of 70% Temp. Sensor: PT100. Compressor: Hermetic Type. Condenser Type: Block Controller, No Pin, Filter free Mechanism. Refrigerant: HFC (CFC Free Refrigerant System) . Controller & display: Full Touch screen TFT LCD Controller. Shelves: Included 3 Stainless steel shelves. Max. Qty of Racks: 24pcs of 20 (4 x 5) Placed Rack (RFU50). Material Internal: Stainless Steel (#304). Material External: Powder coating steel plate. Material Inner Door: Powder coating steel plate (#304). Chamber Dimension (w x d x h) Internal (mm): 880 x 620 x 1310 Power Consumption: 1.6 kW Power Supply: 220 Volt, 50/60 Hz</p>	Rs.1,977,300/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	<p>Ultra Low Temperature Freezer (Upright Type) The Panasonic MDF Freezers are Ultra Slim, space saving and has improved energy consumption. The Panasonic MDFSeries has a microprocessor control system, which is secure, easy to use and comprehensive. Set point, alarm parameters and self-diagnostic functions are accessed through a tamper-resistant keypad protocol. Control inputs are managed with convenient push-ad buttons on a unitized, sealed control overlay. Features: Panasonic V.I.P. technology achieves up to 30% more storage capacity. A newly developed refrigeration system and the structure offer a quiet experimental environment. Two independent and insulated inner doors with gaskets prevent Leakage. Safe operation with Status Alert continuous condition monitoring(notifies of potential problems before they happen). The inner doors are removable for cleaning and defrosting. Power failure alarm lamp and buzzer. Audible and visual alarm on High and low temperature. Technical Specifications: Temperature range: -50°C to -86°C. Interior Dimensions:(WxDxH) 490 x 600 x 1140 mm. Effective capacity: 333 Liters / 11.8cu.ft. Shelves:3, Stainless steel. Compressor: Rotary type (high stage side), Hermetic type (low stage side) Alarm system: High/low Temperature, Power failure,Filter check, Self diagnostics, Door check, Remote alarm contact Accessories: 1 set of keys, 1 scrapper, Complete Model MDF-U33V, Panasonic (New Name of Sanyo) Made in Japan.</p>	Rs.2,300,000/- each
3.	M/S Talha Enterprises, Karachi	<p>TSE Ultra-Low Temperature Upright Freezers Model: TSE400V, Temperature Range: -50°C to -86°C. Capacity cu. ft. (liters) 23.0 (651), 2 in. Box Qty. 400, Electrical 230V / 50Hz, Amps / Breaker (Plug) 12/15 (European), Maximum Shelf Weight lbs. (kg) 125 (57), Interior Dimensions H x W x D in. (cm) 51.5 x 30.6 x 25.3 (130.8 x 77.7 x 64.3) Exterior Dimensions H x W x D in. (cm) 77.9 x 40.8 x 38.9 (197.9 x 103.6 x 94.0) Shipping Weight lbs. (kg) 879 (399). Microprocessor control. Power Management System. Single-hand operation. Easy-to-remove, washable filter. Secure inner doors. Rugged construction for everyday use. Simplified installation. Optional CO2 or LN2 back-up. Optional chart recorder Made by Germany</p>	Rs.3,875,000/- each

4	M/S World Wide Scientific Karachi	CAT# AV050M, ULTRA LOW TEMPERATURE UPRIGHT FREEZERS -86°C. Kaltis® ultra low temperature (ULT), -86°C laboratory freezers are exceptionally energy efficient, quiet running and reliable, that combine the highest reliability and superior performance with cost-effective operation and innovative features. These ultra-low temperature freezers safeguard your precious samples with advanced technology platforms, maximum temperature recovery, microprocessor controls and high-quality construction. TECHNICALS SPECIFICATIONS: Capacity (L): 499 Lit (17.6 Cu. Ft). Voltage (V): 230 Frequency Hz: 50~60. Amps: 7.5, Interior: 60x64.5x129 Exterior: 85x91x196, M/s KALTIS-USA.	Rs.1,960,000/- each.
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Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,960,000/- each** as per given specification.

29	TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Qiagen, Ideka Rika japan, or equivalent. Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Runtime of 1 second to 1 hours 59 minutes, Display and control panel for speed and time, 220-240 V, 50/60 Hz, Accessories, Stainless steel beads –5 mm (200nos), Stainless steel Baeds – 7 mm (200nos), Beads acid- washed , 150–600µm (20grms) Single Bead dispenser, 5mm, Capacity to hold ~100 beads single bead dispenser, 7 mm capacity to hold ~50 bread suitable 2 ml micro centrifuges tubes (1000nos) TissueLyser Adapter Set 2 x 24 (2 sets of adapter plates and 2 racks for use with 2 ml micro centrifuge tubes on the TissueLyser II), TissueLyser Adapter Set 2 x 96 (2 sets of adapter plates for use with Collection Microtubes (racked) on the TissueLyser II), Qiagen, Ideka Rika Japan, or EXACT equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Roghay Sons, Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Roghay Sons, Karachi	Tissue Lyser, Model Tissue Lyser LT Supplied with 1.Tissue LyserLT. 2.Tissue Lyser adapter, 12 tube. 3.Stainless Steel Bead, 5mm. 4.Sample tube RB 2ml(1000). 5.Tissue Lyser Single Bead Dispenser. Mfr. Qiagen, Switzerland.	Rs.4,649,000/- each
2.	M/S Talha Enterprises, Karachi	TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (1000) oscillations/ minutes). Rika Japan	Rs.4,999,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Roghay Sons, Karachi @ the rate of **Rs.4,649,000/- each** as per given specification.

30	Microplate Shaker , Microplate orbital shaker speed range:200-1500 rpm (digital) Speed increment:10rpm plate holding: 4 plates, Operating temp:4-70°C, Fisher, Corning or exact equivalent imported.
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Microplate Incubator /Shaker, Cat. No. 130000-2 BOEKEL SCIENTIFIC, USA. 2 year warranty Accommodates Std. 96, 384, and 536 Plates Specifications: - Product Dimensions W x D x H (in/cm): 25.4cm (10") x 25.4cm (10") x 10.2cm (4")H. Orbit Diameter: Approximately 1mm. Mechanism: Rotating counterweight. Temperature Range: Ambient to 40°C. Temperature Resolution: 0.1°C. Temperature Uniformity: Better than ± 0.4°C with cover. Warm Up Time: Typically 15 minutes. Timer Range: 1 second to 99 min. 59sec. Timer Resolution: 1 second. Mixer Speed: 575 to 1500 RPM (575, 625, 675, 750, 875, 1000, 1200, 1500 RPM). Pulse Operation: 1500 RPM for 3 seconds. Electrical: 230VAC (50/60 Hz) 19W	Rs.438,750/- each
2.	M/S AL-Beruni Scientific Store, Hyderabad	Microplate Platform Shaker Vibrating Vibration motion continuously adjustable up to 1350 rpm, vibration orbit 1.5 mm, with built in process timer up to 120 minutes, Model Titramax 100, Heidolph Made in Germany.	Rs.390,000/- each
3.	M/S ScienTec Karachi	Microplate Shaker, Model: 6781-4, Make: Corning Key features: The Corning LSE Digital Microplate Shaker features digital control of shaking speed and run time. A single control knob is used to set parameters, and values are shown on a large 3-digit display. A sturdy base encloses the motor for quiet, vibration-free operation. The included stainless steel platform accommodates up to 4 microplates (standard or deep well) and the shaker is safe for use in temperature controlled environments from 4 to 65°C. Large capacity - process up to 4 microplates 3 mm orbit for resuspending, homogenizing or vortexing Large digital display with single-knob control Suitable for cold room or incubator use	Rs.229,030/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S ScienTec Karachi @ the rate of **Rs.229,030/- each** as per given specification.

31	<p>Minipore Ultrapure Water purifier system, Applications: Up to 70L per day. Pyrogens (Endotoxins), EU/mL: < 0.001 Water Delivery, L/min: At E-POD: up to 2.0, At Q-POD: 0.05–2.0 Product Water Resistivity, MΩ·cm (@ 25 °C): Pure Water: > 5, Ultrapure Water: 18.2 , Feed Water Nature: Tap water, Water used for PCR or HPLC, Milli Q, Aurora Instruments, RSD or exact equivalent.</p>
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	<p>Water Purification System, Type 1 water Model: Ultramatic: GRUF WasserLab, Spain GR UF model: Ultrafiltration cartridge is included, producing Ultrapure water (pyrogen and nuclease – free water) suitable for molecular biology, nanotechnology and genomics applications Specification Output: Pure water Type I according ASTM D1193. Input: Type II water. Production: 1,1 l / min, Flow rate: 1.1 l/min, Conductivity: 0.055 μS/cm, Resistivity: 18.2 MΩ·cm TOC: < 10 ppb, Bacterial count: < 1 cfu/ml. Particulates: (> 0.2 μm/ml) < 1 part/ml. Endotoxines: < 0.001 EU/ml. Feed water: Type II water (Wasserlab Ecomatic/Autwomatic Model). Osmotized water, Deionized water, Distilled water Dimensions (Centimeters): ULTRAMATIC equipment: 52 x 25 x 48 cm (Height/Width/Depth). Weight: 12 Kg</p> <p>Ultramatic GRUF Consumables</p> <p>a) Resin Type I Pack (Ultrapure) Cat. No. PCK405. b) Foto oxidation Lamp Replacement Cat. No. 80280. c) Final Filter 0,2 Micron Cat. No. 20640, d) UF Cartridge Cat. No. 20770.</p> <p>Total</p>	<p>Rs.924,300/- each</p> <p>Rs.49,140/- each</p> <p>Rs.21,060/- each</p> <p>Rs.23,400/- each</p> <p>Rs.81,315/- each</p> <p>Rs.1,099,215/- each set.</p>
2	M/S World Wide Scientific Karachi	<p>CAT# B30-BIO, WATER PURIFICATION SYSTEM Adrona water purification systems provide ultrapure and pure water for laboratory needs. Quality of water meets requirements for Grade I water of ISO 3696 standard and corresponding ASTM and CLSI standards. FEATURES: Premium quality water Reliable operation. Low running costs. Easy installation and maintenance. Convenient user interface. Color graphic display Easily readable indication of water quality. TOC monitor Volumetric dispense. Status indication with intuitive color pattern Validation possibility. B30 systems produce purified water directly from tap water 25 L storage tank with integrated Grade II dispense pump APPLICATIONS: Reagent Preparation Ion Chromatography, Plasma Mass-spectrometry (ICP-MS), Flame AAS, Plasma spectrometry (ICP-OES), High performance Liquid Chromatography (HPLC) Gas chromatography , Total organic carbon (TOC) measurements Flow cytometry, Cell culture, Molecular Biology APPLICATIONS: Water resistivity: 18.2 MΩ·cm Water conductivity: 0.055 μS/cm Total organic carbon (TOC) level: <2 ppb. RNase: <0.01 ng/mL, DNase: <4 pg/μL. Bacteria: <1 CFU/mL. Endotoxin: <0.001 EU/mL. Particles >0.22 μm: <1/mL. Nominal flow, pure water (to storage tank): 10 L/h. Nominal dispense flow, ultrapure water: 2 L/min. Nominal dispense flow, pure water: 4 L/min. Deionization module life: 1 m³. Dimension (WxDxH), cm: 35x54x60. Water Storage tank: 25 L, Feed water conductivity: <900 μS/cm, M/s ADRONA-LATVIA MADE IN EUROPE.</p>	<p>Rs.1,085,000/- each.</p>

3.	M/S Roghay Sons, Karachi	ULTRAPURE WATER PURIFIER, Model 750-1D. The 750 Series is a configurable system designed to meet the requirements of any laboratory accommodating water supply from a potable source. The comprehensive nature of the 750 series ensures suitability to different Industry sectors. Both RO (reverse osmosis) and UP (uitra pure) grades of water can be produced to varying degrees of Purity dependant on theintended use of the water. TYPICAL APPLICATIONS: General Laboratory Analysis. Preparation of Stock Solutions. Washing and rinsing of Glassware. Analysis of Micro-Organisms. Cell Culture. DNA/RNA tests. FEATURES & FUNCTIONS.1.CE Certified. 2.Products produced to European standard. 3.Auto Calibration for Water Purity. 4.Hourly re-purification cycle. 5.Automatic re-purification cycle set by Purity limit. 6.Set levels for filter change warning. 7.Feed Water Tap Water. 8.Product flow rate 18L/H. 9.Suitable for Molecular Biology application, Mfr. Pg-Instrument, UK	Rs.1,095,000/- each
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Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,085,000/- each** as per given specification.

32	Digital bench top timer , Time count down from 24 hour to 1 second in one second increments. For bench use, can display countdown, stop watch or time of Day. Alkaline Battery Fisher, Carl Roth or exact equivalent imported.
33	UV protective Goggles, Fisher, Roth or equivalent. UV protective eye wear light weight, Unilens Style adjustable temple length, duo flex confort cushion antifog, antiscratch/ anti UV coating, meet ANSIZ87.1-2010 and CAS Z94.3 eye ware requirement, Fisher, Roth, USA, UK Germany or exact equivalent imported.

No firm quoted the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

34	Digital Room Thermometer, Measuring temperature range:-18-+72°C Clock, , Fisher, Roth or equivalent. Wall mounting Digital thermo hygrometer to monitor relative humidity and temperature in laboratories and offices. Digital thermometer selectable to °C or °F range: -18-+72°C. Relative humidity range: 20-100%RH, 3 digit LED sensor, 1.5V AA battery. Oakton, USA, UK or exact equivalent
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One firm participated and not qualified for required specification. Procurement Committee may approve purchase of tender item from local market on quotation.

35	Deionizer, battery operated with disposable cartridges. Wall mounting, 90 liters/hour high purity water, built in water quality meter. Disposable cartridge Battery: 9V, ELGA or exact equivalent imported.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Deionizer 10 L, Model: DE7001, WasserLab, Spain Specification:- Mounting Output: Pure water Type II (analytical grade) according ASTM D1193. Input: Tap water. Production: 90ltr./h. Purification process control: By microprocessor. Installation requirements: 220V AC + water supply (\leq 3 m. distance / \geq 2 bar pressure). Measures and weight: - Deionizer 200 x 540 mm (Diam x H) / 12 kg. - Conductivity meter 175 x 80 x 130 mm (WxDxH)- Wall. Installation Requirements. - 220V AC socket. grounded. - Take water nearby (maximum 2 meters) with a minimum pressure of 2 bars and a threaded $\frac{1}{2}$ "male thread gas. - Minimum inlet water pressure: 2 bars. - Maximum inlet water pressure: 8 bar.	Rs.315,900/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Deionizer single cartridge, wall mounted to deionize water with built in conductivity meter, Output 45 Lit/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts, Model DI 425 TKA Made in Germany.	Rs.188,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.188,000/- each** as per given specification.

36	Distillatory glass 5-litre/h (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 5 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd:	4 liter Model favorite Europe.	Rs.94,000/- each
2	M/S World Wide Scientific Karachi	CAT# P710710, WATER DISTILLATOR, MODEL NO: 710, Automatic water still. It supplies an output of 4 liters per hour, with cut-out device. High quality water pyrogen free silica element quartz. Safety Thermo stat protects still in the event of water supply failure. Easy handling and cleaning. Bench or wall mounting. TECHNICAL SPECIFICATIONS: Out Put: 4 L, Wattage:3000 W, Voltage: 230 V, Base Dimension: 55 x 15 cm. M/s POBEL-SPAIN.	Rs.275,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.94,000/- each** as per given specification.

37	Pipetting aid, auto pipette filler (5-10ml), battery operated. Color, white, Battery type: Lithium ion Dispensing speed:8, Filter type 0.45 micron standard. Universal chargeable stand, wall mounting holder Nose piece holder: Autoclavable Silicone Rubber for use with graduated and volumetric glass and plastic serological pipettes. Thermo, Carl Roth, GMB or exact equivalent imported.
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Electronic Macropipette, Cat. No. 936.10E, SOCOREX, SWITZERLAND. ACURA electro 936, electronic macropipette, 4.8V, 0.5 - 10 ml, initial package with 2 battery packs, pipette charging stand, 100-240V power supply, Europe style plug, Qualitips sampling Specifications: - Volume Range: 0.5-10mL, Division: 0.05 mL, Tip Style: 10ml	Rs.136,950/- each.
2.	M/S AL-Beruni Scientific Store, Hyderabad	Pipetter/Macroman , Unique Comfort & Controlled Pipetting, Stable, safe & easy to pick up. - Integrated bench stand adjustable for left and right handed users.- Keep your MACROMAN handy and ready for use, without risk of contamination. Soft & fatigue free pipetting. - Soft-touch material for maximum finger comfort. - Large dosing button to decrease pushing efforts. Optimal comfort. Integrated, adjustable stand for easy handling when pipette attached, Large & soft-touch material dosing button Light weight Quiet operation & vibration free, Ergonomic-shape handle with grip. Performance, For all plastic & glass pipettes from 1 to 100mL, Continuously adjustable speed: 25mL in 4sec, Environmentally friendly NiMH battery for 8 hours operation, Precise & smooth dosing button control: drop-by-drop, gravity mode , and motorized speed. Safety & easy maintenance. All liquid contact parts are autoclavable, Easy-to-replace filter. Replaceable batteries, Operated on 220Volts, Complete, Cat No. F110751, Macroman, Gilson, Made in France.	Rs.124,000/- each
3.	M/S ScienTec Karachi	Electronic Pipetting Control Device Pipetting Aid/ Controller for 1 To 100ML Pipettes (Cat # 4091), Make: Corning.	Rs.94,770/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S ScienTec Karachi @ the rate of **Rs.94,770/- each** as per given specification.

38	<p>Laminar Flow cabinet Horizontal 5'. Table top Horizontal Laminar Air flow workstation. 5ft (1.5m) External dimension: (1645x797x1105) WxDxH (mm), Internal dimension: (1490x625x575) WxDxH (mm). One dimensional air flow, constant velocity of 90fpm. Hepex Zero Leak Airflow system, Florescent lighting, protective grill, glass disposable prefilter Germicidal UV light, Vinyl curtain- front closure for UV light, stainless steel 18guage body and workzone, side walls; UV absorbing tempered glass 5mm 3years warranty, NuAire, Esco, USA, UK, Germany or exact equivalent.</p>
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Four firms participated and quoted technical specification in agreement with tender specification. M/S ScienTec Karachi offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Scientific Technical Corporation (Pvt.) Lahore	Horizontal Laminar Airflow Cabinet Model: NU-201-530, NUAIRE INC., USA. AireGard ES (Energy Saver) NU-201 Table Top Horizontal Airflow Workstation The AireGard ES 201 Horizontal Laminar Airflow Workstation provides a HEPA filtered clean work area for laboratory appliances, microscopes, pipetting, compounding sterile drug preparations or IV admixture, or any applications requiring a clean air environment. Specifications - Nominal Size: 5 ft. (1.5 m) Exterior Dimensions (W x D x H) [mm]: 62 x 32 x 52 (1575 x 813 x 1321), Interior Dimensions (W x D x H) [mm]: 58 ¾ x 20 x 28 ¾ (1492 x 508 x 721).	Rs.1,626,300/- each.
2.	M/S Talha Enterprises, Karachi	Horizontal Laminar Airflow Cabinet Model: NU-301-530E, HEPEX™ Zero-Leak Airflow System Clear Top / Side Acrylic Panels Textured Powder Coat, Urethane Finish, Smooth White Formica™ Work Surface. Front Maintenance. Fluorescent Light Protective Fiber Grill, Fiberglass Disposable Prefilter Full Instrument Panel. Minihelic Gauge. 115 VAC, 60 Hz, single phase. 8ft., 3-wire Grounded Flexible Power 301530M434 S/S Work Surface with PCV Core Ultraviolet Light 230V Vinyl Curtain and Interlock, 301M354 Feet: Leg Levelers Included, 301M181 Seismic Suds Included, NU-9700-05 Wood Crating Made by Taiwan	Rs.2,385,000/- each
3.	M/S ScienTec Karachi	AirStream Horizontal Laminar Flow Clean Bench 5ft. with support stand, Model AHC-5D1/AHC-6D1 5ft./6ft. Make: ESCO, Singapore, Key Features: Sentinel™ Microprocessor Control System. Soft touch controls for blower, light, outlet and UV are easy to clean. ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are superior to HEPA filters. ULPA filters last as long as Conventional HEPA filters and have similar replacement costs. The backward curved wheel with external rotor motor delivers class-leading energy efficiency for lower operating costs. An additional disposable pre-filter traps large particles in the inflow air prior to reaching the main filter, protecting against damage and prolonging filter life. All Esco products are manufactured for the most demanding laboratory applications. All components are designed for maximum chemical resistance and enhanced durability for a long service life. The main body of the clean bench is constructed of industrial-grade electrogalvanized steel. One piece formed stainless steel work surface with a curved front edge is designed for maximum operator comfort. Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start. Esco Laminar Flow Clean Benches have been tested for cross-contamination and product protection using microbiological test methods specified in EN12469. Each clean bench is individually factory tested for safety and performance in accordance with international standards. All electrical components are UL listed or UL recognized, ensuring superior electrical safety for the operator. Esco ISOCIDE antimicrobial coating on all painted surfaces.	Rs.894,650/- each

4.	M/S World Wide Scientific Karachi	CAT# BBS-H1800, HORIZONTAL LAMINAR AIRFLOW CABINET <u>TECHNICAL SPECIFICATIONS:</u> Display: LCD Display. HEPA: HEPA filter with efficiency of 99.997% at 0.3 micro. Dust: < 3.5 Granule / L for >0.5 µm Noise Level:<60db. Airflow Velocity: 0.3-0.5 m/s Vibration Level: <5 µm. UV Lamp: 30 W*1. Light: 28W*1. Front Window: Motorized. Pre-Filter: Polyester fiber, washable. Work Surface Height: 720 mm. Work Material: Stainless steel External Size: 1800mm*825mm*2010mm (W*D*H). Internal Size: 1700mm*500mm*570mm (W*D*H). Standard Accessory: Fluorescent lamp, UV lamp 2, Base Stand, Gas Tap Water Tap and Socket 2. Power Supply: 220V M/s BIOBASE	Rs.940,000/- each.
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Procurement Committee may approve purchase from the 1st lowest bidder M/S ScienTec Karachi @ the rate of **Rs.894,650/- each** as per given specification.

Furniture and Fixture.	
39	Cupboard/Drawer deodar frame 4'.9"x2'.3", lasani board 4 drawer high quality lock & handle

Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Lasani wood, Best quality, Durable No moist, dry, Deemak Free wood, Rohira tree, smooth.	Rs.41,000/- per unit.
2.	M/S Habib & Sons, Hyderabad.	Cupboard / Drawer Deodar Frame 4'.9" x 2'.3" lasani board, Cupboard made in Deodar frame with sliding Door , size: L = 4'.9" x H= 2'.3" Made in waterproof lasani lamination Malaysia. It is free of termites (Dimak) Colors are available on customer's demand.	Rs.180,000/- per unit
		Drawer size :width 16" x Height 6" x depth 18".Made in waterproof lasani lamination having 18 SWG steel channel with best quality handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	Rs.180,000/- per unit

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.41,000/- each** as per given specification.

40	Cupboard/Drawer 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality lock and handle.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #.	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Burraq Business Corporation, Hyderabad	Low weight, high strength excellent corrosion resistance, good thermal superior, malleability, different colors super fine quality best quality lock and handle.	Rs.39,000/- per unit
2.	M/S Habib & Sons, Hyderabad.	Cupboard size: L = 4'.9" x H= 2'.3" made in lucky Aluminum frame. boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm fiber glass will be fix in windows. Colors are available on customer's demand.	Rs.285,000/- per unit
		Drawer box size: L= 17"x H= 20" .Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(03) drawers in each of cabinet. It is free of termites (Dimak), Colors are available on customer's demand	
		Cupboard size: L = 4'.9" x H= 2'.3" made in lucky Aluminum frame.boarder size: 2".25 with sliding window section size 1"- 6/8. Inner side of boarder size 2".2/8 with imported leg of Aluminum. 4 mm Aluminum steep will be fix in windows. Colors are available on customer's demand.	Rs.285,000/- per unit.
		Drawer's box size: L=17" x 20"Drawer size: width 16" x Height 6" x depth 18" folding. Made in waterproof lasani lamination having 18 SWG steel channel with best handle and lock.(04) drawers in each of cabinet. It is free of termites (Dimak) Colors are available on customer's demand.	

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.39,000/- per unit** as per given specification.

2. Cost of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First aid material, Trial Treatment Medicine and Feeding for Experimental Animals.

Of the Nineteen (19) firms, sixteen (16) firms participated in the tender:

1	M/S Scientific Technical Corporation (Pvt.) Lahore
2	M/S I.K. Enterprises, Hyderabad
3.	M/S Orison Corporation, Hyderabad
4	M/S Lab Care Karachi
5	M/S World Wide Scientific Karachi
6	M/S Shameel Enterprises, Hyderabad
7	M/S AL-Beruni Scientific Store, Hyderabad
8	M/S Talha Enterprises, Karachi
9	M/S China Medical Store, Hyderabad
10	M/S Gul Rays Enterprises, Hyderabad.
11	M/S Musaji Adam & Sons, Karachi
12	M/S Burraq Business Corporation, Hyderabad
13	M/S Choice Enterprises, Hyderabad
14	M/S S.A. Enterprises, Hyderabad
15	M/S Cyber Pakistan Business, Hyderabad
16	M/S Lucky Brothers, Hyderabad

1.	PPR competitive ELISA Ab Diagnostic reagent kit and plates for multi species 04 plates (484 samples) ID Vet or exact equivalent.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	ID Screen® PPR Competition ELISA Model: PPRC-4P, Packing 1 kit (4 plate/384 samples) ,Manufacturer ID VET - France	Rs.411,600/- each
2	M/S Cyber Pakistan Business, Hyderabad	PPR competitive ELISA Ab Diagnostic reagent kit and plates for 04 plates (384reactions) ID screen ID Vet France Cat No.PPRC,4P.	Rs.220,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.220,000/- each** as per given specification.

2.	CCPP ELISA antibody detection reagent kit with ELISA plates for 100 serum of caprine/ovine, AHVLA or exact equivalent.
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One firm M/S S.A. Enterprises, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	CCPP ELISA antibody detecton reagent kit with ELISA plates for 100 serum of caprine/ovine Packing 1 kit(for 100 serum, Manufacturer AHVLA scientific UK	Rs.411,600/-

Procurement Committee may approve purchase from the bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.411,600/- each** as per given specification.

3.	Brucella Rose Bengal stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella abortus antigen direct test Make USA Packing 5ml	Rs.7,900/-
2	M/S S.A. Enterprises, Hyderabad	Brucella RBT Antigen Model V2001, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Rs.17,640/-
3	M/S Cyber Pakistan Business, Hyderabad	Brucella Rose Bengal stained Antigen suspension, 10ml Lilli Test RBT Antigen Lillidale UK Cat No.V2001.	Rs.8,500/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.8,500/- each** as per given specification.

4.	Brucella mellitensis stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Brucella mellitensis antigen direct test , Make USA, Packing 5ml.	Rs.7,900/-
2	M/S S.A. Enterprises, Hyderabad	Brucella mellitensis tained antigen Model V-2011, Packing Vial 10ml Manufacturer Lillidale Diagnostics-UK	Rs.132,300/-
3	M/S Cyber Pakistan Business, Hyderabad	Brucella mellitensis positive serum, freeze dried 2.5ml Lillidale Diagnostic UK Cat. V2011.	Rs.93,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.7,900/- each** as per given specification.

5.	Brucella AB ELISA kit with plates (Bovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No.10-2700-10, Format Strips Plates:10, Tests:960, Samples:920 Made by Sweden	Rs.285,000/- each kit
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Rs.249,900/-
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Rs.185,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.185,000/- each** as per given specification.

6.	Brucella AB ELISA kit with plates (Ovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA o/c Article No. 10-8200-02, Format: Strips, Plates:2, Tests:192, Samples:184, Made by Sweden, Svanova.	Rs.85,000/- each kit (Rs.462/each sample)
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Serum indirect, multispecies Model: BRUS-MS-4P Packing 1 kit (4 plate/384 samples) Manufacturer ID VET - France	Rs.249,900/- (Rs.648/each sample)
3	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Rs.195,000/- (Rs.508/each sample)

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.85,000/- each** as per given specification.

7.	Brucella milk ring test antigen vial 100ml (MRI),USA, France, UK or exact equivalent Imported.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Brucella abortus Milk Ring Test (MRT) antigen Model: RAA0048, Packing Vial 100ml, Manufacturer AHVLA Scientific - UK	Rs.514,500/-
2	M/S Cyber Pakistan Business, Hyderabad	Brucella abortus Milk Ring test (MRT) antigen AHVLA Scientific, Uk formerly VLA UK 100ml, Cat No.RAA0048.	Rs.310,000/-

Both the firms M/S S.A. Enterprises, Hyderabad & M/S Cyber Pakistan Business, Hyderabad quoted higher rate. **Procurement Committee may approve purchase of this tendered item from VRI Lahore.**

8.	Brucella milk ELISA reagent kit with plates. Brucellosis milk indirect ELISA, Diagnostic reagents and plates for B. abortus in Bovine milk 4 plates (384 reaction) Idexx USA, UK, France or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Brucella Ab I-ELISA , Article No. 10-2700-10, Format:Strips, Plates:10, Tests: 960, Samples: 920, Savanova Made by Sweden	Rs.285,000/- each kit
2	M/S S.A. Enterprises, Hyderabad	ID Screen® Brucellosis Milk Indirect, Model: BRUMILK-4P, Packing 1 kit (4 plate/384 samples), Manufacturer ID VET - France	Rs.249,900/-
3.	M/S Cyber Pakistan Business, Hyderabad	ID Screen Brucellosis Milk Indirect, 4 plates, 384 reaction ID Vet France Cat No.BRUMILK-4P .	Rs.120,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.120,000/- each** as per given specification.

9.	Tuberculosis test antigen(Tuberculin Avian & Mammalian) 5ml vial imported, PPD (PPD A&B) Tuberculin intra dermal test for Bovine tuberculosis 500 reaction UK, USA or exact equivalent.
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Two firms participated; one firm M/S Cyber Pakistan Business, Hyderabad quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Cyber Pakistan Business, Hyderabad	In vitro cell activation pack for 5000 reactions containing avian and bovine tuberculin PPD and mitogen (pokeweed), Mitogen is used as a positive activation control ID Vet France Cat No.PPDPACK, One Pack.	Rs.270,000/-

Procurement Committee may approve purchase from the bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.270,000/- each** as per given specification.

10.	Tuberculosis antibody test kit antibody test. BTB Ab ELISA diagnostic reagent kit with Microplate, 480 Wells/kit, UK or exact equivalent.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item on quotation.

11.	CMT (California Mastitis Test) kit with reagents liter bottle, ready to use liquid, Bovi-Vet Denmark or exact equivalent.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	CMT California Mastitis Test kit with reagents litre bottle, ready to use liquid, Minimum order for 24 bottles , Packing 1 litter Bottle, Imported	Rs.11,760/-
2	M/S Cyber Pakistan Business, Hyderabad	CMT (california Mastitis Test) kit with reagents litre bottle, Cat No.497101 CosAgri UK.	Rs.5,800/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.5,800/- each bottle** as per given specification.

12.	Penside Rabies Rapid diagnostic device for detection of Rabies antigen in ruminant saliva /tissue fluid of brain 10test/kit , UK or exact equivalent.
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One firm M/S S.A. Enterprises, Hyderabad participated and quoted technical specification in agreement with tender specification offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S S.A. Enterprises, Hyderabad	Rapid Rabies Ag Test kit 20 tests/kit, Model: VR-1005 Packing Kit (10 tests/kit) Manufacturer Lillidale Diagnostics-UK	Rs.117,600/-

Procurement Committee may approve purchase from the bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.117,600/- each kit** as per given specification.

13.	Zeihl-Neelson Stain Kit. Containing one 250ml bottle each of TB Carbofuschin, TB Decolourizer solution and TB Methylene Blue BD Difco, Merck or exact equivalent.
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Two firms participated; one firm M/S Musaji Adam & Sons, Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Z.N Stain Kit. Bottle Make Wellcosol, Packing 3x500ml	Rs.6,080/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.6,080/- each kit** as per given specification.

14.	Sheep pox/ Goat Pox antigen ELISA diagnostic reagent kit with plates.
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One firm M/S Lab Care Karachi participated and quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Lab Care Karachi	sheep pox/Goat pox antigen EUSA Research kit with plates 96 Test Cat # BYS126616B, TRANS UAE,	Rs.199,000/-

Procurement Committee may approve purchase from the bidder M/S Lab Care Karachi @ the rate of **Rs.199,000/- each kit** as per given specification.

15.	Camel pox antigen ELISA diagnostic reagent kit with plates.
16.	Buffaloe/Cow Pox

No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

17.	CATT/ T.evansi Kit with accessories, CATT/Tev T250: (Institute of Tropical Medicine, Belgium) or exact equivalent.
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One firm M/S Cyber Pakistan Business, Hyderabad participated and quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S Cyber Pakistan Business, Hyderabad	CATT/T evansi kit with accessories, CATT/TEV T250 (Institute of Tropical Medicine Belgium.	Rs.105,000/-

Procurement Committee may approve purchase from the bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.105,000/- each kit** as per given specification.

18.	Microscope glass slide with frosted end pack of 72Nos. Germany or exact equivalent imported
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 72, Citotest Germany	Rs.285/- box
2.	M/S AL-Beruni Scientific Store, Hyderabad	China Pkt of 72Nos.	Rs.240/- box
3.	M/S S.A. Enterprises, Hyderabad	Microscope Glass slide with froste end pack , Packing 1 box (72 slides) Germany	Rs.382/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.240/- box** as per given specification.

19.	Disposable hand gloves. Pre examination disposable gloves, textured embossed medium size 100 Nos./packing weighing Approx 155g/pack.
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Five firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	China per box 100 Nos..	Rs.742.50
2	M/S AL-Beruni Scientific Store, Hyderabad.	China 100 Nos./Pkt.	Rs.66/- per Pkt.
3	M/S Talha Enterprises, Karachi	100 Nos. Packing weighing Approx 155g/pack (China)	Rs.85/- each box
4	M/S Burraq Business Corporation, Hyderabad	Imported China as per specification.	Rs.95/-
5	M/S S.A. Enterprises, Hyderabad	Disposable hand gloves. Medium size Packing 1 Box (100nos), China	Rs.5,439/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.66/- per Pkt** as per given specification.

20.	Latex surgical gloves disposable. Pre examination powder, natural high quality latex, surgical, milky white hand gloves medium size 12pair gloves/pack.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S S.A. Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	Pak./ China per 6 pair.	Rs.448/- (Rs.30/- per pair)
2	M/S Talha Enterprises, Karachi	Latex surgical gloves disposable pre examination powder, natural high quality latex, surgical, milky white hand gloves China.	Rs.55/- each pair
3	M/S Burraq Business Corporation, Hyd	Imported Malaysia as per specification 12 pair/pack	Rs.1,259/- (Rs.105/- pair)
4	M/S S.A. Enterprises, Hyderabad	Latex surgical gloves disposable. medium size, Packing 1 Box (100nos) China	Rs.1,029/- box (20.58 per pair)

Procurement Committee may approve purchase from the 1st lowest bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.1,029/- box** as per given specification.

21.	Autoclaveable bijoux 5ml with aluminum screw cap white glass Imported.
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Autoclaveable bijoux 15 ml with aluminum screw cap Glassco	Rs.75/- each
2	M/S Musaji Adam & Sons, Karachi	Bijou Bottles 7ml Autoclaveable with Cap Make UK, each	Rs.195/- each
3.	M/S S.A. Enterprises, Hyderabad	Autoclaveable bijoux 5ml with aluminium screw cap white Packing each China	Rs.353/- bottle

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.75/- each** as per given specification.

22.	Autoclaveable glass bottles wide mouth, screw cap 50-80ml for bacteriology/Parasitology/Pathology specimen.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item on quotation.

23.	Ice Pack, cold pack for refrigerated shipment and storage at 0oC, 150micro nylon pouch, multi use PCM pack 4.3"x5.7" 200g each.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Coldpack (05Litter), Airliner Technology, Coldpack France. <u>Specifications:</u> The messenger bag kit contains fowling. Foldable textile bag Qty:01No, Coldpack Airliner. Qty:02No. Manual air pump, Qty:01No, Protective bag, Qty:01No. Jaw packs. Qty: 02No. It has an internal capacity (empty) of 05L.	Rs.20,475/- each
2	M/S Burraq Business Corporation, Hyd	Imported as per specification, durable, light weight, easy	Rs.1,900/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,900/- each** as per given specification.

24.	Gel Refrigerant pack, 240x150mm, 500g each.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Scientific Technical Corporation (Pvt.) Lahore offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Gel Refrigerant Pack 240x 50mm 500g each	Rs.878/- each
2	M/S Burraq Business Corporation, Hyderabad	Imported as per specification fine, durable, weight less.	Rs.1,100/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.878/- each** as per given specification.

25.	Sample bag enclosable grove 6"x9" Each of 100 Nos. /Pack.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 6"x9" Each of 100Nos. / Pack With Hand Air pump.	7,898/- each
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak.	Rs.1,170/- Per Kg (100Nos.)
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent chemical free, fine plastic, water resistant 100Nos./pack	Rs.500/- Pack of 100 Nos.

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.500/- pack of 100 Nos.** as per given specification.

26.	Sample bag enclosable grove 10"x12" Each of 100 Nos. /Pack.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Sample Bag Enclosable Grove 10"x12" Each of 100Nos. / Pack With Hand Air pump	Rs.12,636/- each
2	M/S AL-Beruni Scientific Store, Hyderabad	Pak.	Rs.1,170/- Per Kg (80Nos.)
3	M/S Burraq Business Corporation, Hyderabad	Fine, durable, transparent, chemical free, fine plastic.	Rs.700/- Pack of 100 Nos.

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.700/- pack of 100 Nos.** as per given specification.

27.	Disposable Apron. Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, color Blue & green 20 micron thick pack of 100 Nos.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.1,200/- per 100pcs.
2	M/S Talha Enterprises, Karachi	Disposable Apron Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, China.	Rs.4,000/- each box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.1,200/- pack of 100pcs** as per given specification.

28.	Face Mask surgical disposable, without glass fibers, high filtration capacity Pak of 50Pcs, Imported or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyd	China 50pcs/pack.	Rs.134/- per Pkt.
2	M/S Talha Enterprises, Karachi	Face Mask surgical disposable, without glass fibers, high filtration capacity pak of 50pcs China	Rs.165/- each box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.134/-pack of 50pcs** as per given specification.

29.	Indelible Marker, Laboratory permanent marker, for all surfaces starpe fine pointer, Xylen, Ethnol and water resistant, cryogenic markers.
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Two firms participated **all firms not qualified to required specification.** Procurement Committee may approve purchase of tender item from local market on quotation.

30.	Anticoagulant tubes with EDTA 4ml 100 pieces/box.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 3ml.	Rs.9.50/- each
2	M/S Talha Enterprises, Karachi	Anticogulant Tube with EDTA 3ml 100pieces China	Rs.1,200/- each box
3	M/S S.A. Enterprises, Hyderabad	Anticoagulant tubes with EDTA 4ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Rs.2,646/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.9.50 each** as per given specification.

31.	Blood/ serum collection vaccum tubes 5ml 100 pieces/box.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 4.5ml	Rs.11/- each
2	M/S Talha Enterprises, Karachi	Blood /Serum Collection Plain Tube 3ml 100Nos China	Rs.1,300/- each box
3	M/S S.A. Enterprises, Hyderabad	Blood collection vaccum tubes 5ml Packing 1 Box / 100pcs/ box Manufacturer CDRICH China	Rs.2,352/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.11/- each** as per given specification.

32.	Serum vial 2ml with safe lock and graduation scale Eppendorf or exact equivalent.
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 500pec, AHN Germany	Rs.1,900/-
2	M/S AL-Beruni Scientific Store, Hyderabad	China 500 Nos./pkt	Rs.840/- per Pkt.
3.	M/S S.A. Enterprises, Hyderabad	Serum vial 2ml with safe lock Packing 1 Bag/Box (500nos/Bag) Manufacturer Jet Biofil, Canada	Rs.2,352/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.840/- per Pkt** as per given specification.

33.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) large size.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Rs.18,000/-
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) large size Thailand	Rs.985/- each pair

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.985/- each pair** as per given specification.

34.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) medium size.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	pack of 6 pairs/12nos, Ceto China	Rs.18,000/-
2	M/S Talha Enterprises, Karachi	Gum boot (Rubber shoes) medium size Thailand	Rs.985/- each pair

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.985/- each pair** as per given specification.

35.	Dangri (Khaki/ Blue over all). Dangri (cotton/zean cloth) standard size.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Pak	Rs.2,300/- each
2	M/S Talha Enterprises, Karachi	Dangri (Khaki / Blue over all) dangri cotton standard size Local,	Rs.1,995/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.1,995/- each** as per given specification.

36.	Methyl Alcohol, Methanol EP Lab. grade. Acetone free 2.5 liter, Merck, Scharlau or exact equivalent.
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Five firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Merck/ BDH	Rs.1,600/- per 2.5 liter.
2	M/S World Wide Scientific Karachi	CAT# Merck Methyl Alcohol (Methanol), Lab Grade M/s Merck Qty 2.5L	Rs.10,000/- per 2.5 liter
3	M/S AL-Beruni Scientific Store, Hyderabad	Sigma	Rs.2,100/- per 2.5liter
4	M/S Talha Enterprises, Karachi	Methyl Alcohol/Methanol EP 1 2.5Lit Merck	Rs.3,300/-
5	M/S Musaji Adam & Sons, Karachi	Methanol, analytical grade, Make Scharlau, Spain, Packing 2.5Lit	Rs.950/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.950/- per 2.5 liter** as per given specification.

37.	Parafilm (Laboratory use) 14"x125ft (roll).
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# Parafilm® Parafilm 4in. x125ft M/s ParaFilm Brand Qty 01roll	Rs.9,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	USA 4"x125ft.	Rs.4,370/- P.Roll.
3	M/S Musaji Adam & Sons, Karachi	Parafilm 4 X 125 Fit Make USA Packing Each Roll	Rs.5,740/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.4,370/- P.Roll** as per given specification.

38.	Sterilized swab with transport medium for bacteriological samples, collection and transportation.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Pack of 100, Germany	Rs.1,350/-
2	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.11/- each
3	M/S Talha Enterprises, Karachi	Sterilized Swab 100pieces China	Rs.1,250/- box
4	M/S Musaji Adam & Sons, Karachi	Sterilized swab with transport medium for bacteriological samples Make MWB,UK Packing 125Pcs	Rs.8,775/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.11/- each** as per given specification.

39.	Thermometer for Laboratory use. Thermometer digital refrigerator/Freezer max/min reading -50°C + 70°C accuracy ± 1°C with probe. Fisher, Carl Roth, Thomas or exact equivalent imported.
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Two firms participated; one firm M/S Lab Care Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Thermometer for lab use digital(-50 to 300c) 4Nos, HTC2	Rs.14,500/-

Procurement Committee may approve purchase from the bidder M/S Lab Care Karachi @ the rate of **Rs.14,500/-** as per given specification.

40.	Glycerol Absolute lab. grade 2½liter bottle.
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Five firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Lab Care Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 2.5 liter, BDH/ Sigma	Rs.1,900/-
2	M/S World Wide Scientific Karachi	RDH/BDH Glycerol absolute lab grade Qty 2.5L	Rs.8,500/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Fisher.	Rs.21,800/- per 2.5 liter
4	M/S Talha Enterprises, Karachi	Glycerol Absolute Lab Grade 2.5Lit Merck	Rs.3,300/- bottle
5	M/S Musaji Adam & Sons, Karachi	Glycerol, 99%, extra pure Make Scharlau, Spain Packing 2.5Lit	Rs.7,700/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lab Care Karachi @ the rate of **Rs.1,900/- per 2.5 liters** as per given specification.

41.	Phosphate buffered saline tabs Oxide, Sigma or exact equivalent imported.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.11,900/- Per 100Tab Pkt.
2	M/S Talha Enterprises, Karachi	Phosphate Bufferd Saline Tablets 100 Tablets Bio-World-USA	Rs.12,500/- each box
3	M/S Musaji Adam & Sons, Karachi	PHOSPHATE BUFFERED SALINE TABLETS DUL. A, Make Oxoid,UK, Packing 100Tab	Rs.7,425/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.7,425/- Packing 100Tab** as per given specification.

42.	Sodium chloride Lab. grade P. kg.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Talha Enterprises, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Qty/Pack size 1 Kg Bottle, Sigma Aldrich	Rs.1,900/-
2	M/S AL-Beruni Scientific Store, Hyd	Merck/ Fisher.	Rs.3,400/- per kg
3	M/S Talha Enterprises, Karachi	Sodium Chloride Lab Grade kg RDH	Rs.1,200/- per Kg.
4	M/S Musaji Adam & Sons, Karachi	Sodium Chloride Make Daejung, Korea Packing 1Kg.	Rs.1,485/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Talha Enterprises, Karachi @ the rate of **Rs.1,200/- per Kg** as per given specification.

43.	Blood collection needle 21G. Blood collection Needles single use double sided stainless steel canulas with a silicone coating. Sterlized, non-pyrogenic 21Gx1½" thin wall 100nedles/box, BD or exact equivalent.
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One firms M/S S.A. Enterprises, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Packing Box(100 needle/Box) Manufacturer CDRICH China	Rs.2,646/- box

Procurement Committee may approve purchase from the bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.2,646/- box** as per given specification.

44.	Tube holder for single use blood collection needle, standard size, 50 Nos./Box, BD or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S S.A. Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi	Tube holder for single use blood collection needle, standard size 50nos box China	Rs.7,500/-box
2	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Rs.4,410/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.4,410/- box** as per given specification.

45.	Disposable syringe 10ml pack of 100. Disposable syringes. 10cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Shameel Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China Box of 100Nos.	Rs.1210/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.1,270/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syringe 10ml 100Nos Stare Laboratory China.	Rs.1,325/- Pack
4	M/S S.A. Enterprises, Hyderabad	Packing 1 Box(50nos/box) Manufacturer CDRICH China	Rs.1,764/- pack of 100

Procurement Committee may approve purchase from the 1st lowest bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.1210/- box of 100 Nos.** as per given specification.

46.	Disposable syringes. 5cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Shameel Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Rs.726/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.770/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syringe 5cc 100Nos Star Laboratory China	Rs.850/- Per Pkt
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Rs.1,029/- pack of 100

Procurement Committee may approve purchase from the 1st lowest bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.726/- box of 100 Nos.** as per given specification.

47.	Disposable syringes. 1cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Shameel Enterprises, Hyderabad offered the lowest rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Master China box of 100nos.	Rs.693/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Master.	Rs.740/- per Box
3	M/S Talha Enterprises, Karachi	Disposable Syringe 1cc 100Nos Star Laboratory China	Rs.795/- Per Pkt.
4	M/S S.A. Enterprises, Hyderabad	Packing Pack (100nos/Pack China	Rs.970/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.693/- box of 100 Nos.** as per given specification.

48.	Cotton roll absorbent cotton 400gm P. Roll Lab. Grade fine quality, National or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Shameel Enterprises, Hyderabad offered the lowest rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	400gram National.	Rs.306/- per roll
2	M/S AL-Beruni Scientific Store, Hyderabad	National 500g.	Rs.395 per roll.
3	M/S Talha Enterprises, Karachi	Cotton Roll 400 gm National	Rs.375/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.306/- per roll** as per given specification.

49.	PE Disposable shoe cover, Blue, water resistant medium size HDPE, CPE material, 1.2-4g/pcs double elastic.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.260/- per Kg
2	M/S Talha Enterprises, Karachi	PE Disposable shoe cover China	Rs.795/- per Pkt.

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.260/- per Kg** as per given specification.

50.	Universal Bottle Aluminium screw cap 28ml white glass autoclaveable.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China 28ml	Rs.77/- each
2	M/S Talha Enterprises, Karachi	Universal Bottle Aluminium Screw cap 28 ml made by Germany Packing 100Nos.	Rs.11,500/- Per Pkt.
3	M/S Musaji Adam & Sons, Karachi	Universal Glass Bottle 30ml With Aluminium Screw Capped Leak Proof White Autoclaveable, Make UK Packing Each.	Rs.230/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.77/- each** as per given specification.

51.	Deep Freezer 250liters (9cfu), white colour, chest freezer, Dawlance, Waves or exact equivalent.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

52.	Deep Freezer -10°C to -40°C upright, 260 liter, white/ off white with drawers/ chamber, Haier or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S S.A. Enterprises, Hyderabad offered the lowest rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S S.A. Enterprises, Hyderabad	Model: DW-FL90/270 Manufacturer Zhongke Meiling Cryogenics Ltd	Rs.882,000/- each
2.	M/S Shameel Enterprises, Hyderabad	Deep Freezer -10°C to -40°C upright, 260 liter Spain	Rs.912,000/- each

Procurement Committee may approve purchase from the 1st lowest bidder M/S S.A. Enterprises, Hyderabad @ the rate of **Rs.882,000/- each** as per given specification.

53.	Serum transportation box 100 places thermo cool material with covering lid.
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One firm M/S Scientific Technical Corporation (Pvt.) Lahore participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Scientific Technical Corporation (Pvt.) Lahore	Serum Transportation Box Thermo cool material with covering lid With CVDL Mark With inner aluminum division.	Rs.339,300/- 100 box

Procurement Committee may approve purchase from the bidder M/S Scientific Technical Corporation (Pvt.) Lahore @ the rate of **Rs.339,300/- 100 box** as per given specification.

54.	Surgical scalpel stainless steel No.4 scalpel.
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One firm M/S Shameel Enterprises, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Rs.720/-

Procurement Committee may approve purchase from the bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.720/- (12Nos. in Pkt)** as per given specification.

55.	Surgical blade No.22.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	As per tender specification (12Nos. in Pkt).	Rs.1,215/- (Rs.101/each)
2	M/S AL-Beruni Scientific Store, Hyderabad	China. Pkt of 100 Nos.	Rs.700/- per 100 Nos. (Rs.7/each)
3	M/S Talha Enterprises, Karachi	Surgical Blade No 22 China	Rs.750/- Per Pkt. 100Nos. (Rs.7.50/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.700/- per 100 Nos. (Rs.7/each)** as per given specification.

56.	CMT tray for milk testing. CMT Test Peddle. Four compartment blue plastic peddle with slightly doomed cup-bottom and pump dispenser bottle for reagent. Bovi-Vet Denmark or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Cyber Pakistan Business, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyd	As per specification.	Rs.18,000/-
2	M/S S.A. Enterprises, Hyderabad	CMT test reagent 1000ml (2ml/ test 8ml/animal, 120 animals/bottle) Minimum order: 24 sets Packing 1pkt (12nos/pkt) Manufacturer ImmuCell CMT Starter Kit USA	Rs.11,760/- Pkt.
3	M/S Cyber Pakistan Business, Hyderabad	CMT kit Comprising 1 liter liquid segmented test paddle, 2ml pipette Cat No.497095, Coxagri UK.	Rs.4,200/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Cyber Pakistan Business, Hyderabad @ the rate of **Rs.4,200/- 1-liter** as per given specification.

57.	Tagging machine medium (small ruminants) with 1000 aluminum tags
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One firm M/S Burraq Business Corporation, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Durable long lasting, fine qualify.	Rs.58,000/-

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.58,000/- each** as per given specification.

58.	Hand held pH/EC and TDS tester 2-16pH, 0-20ms/cubic cm, range 0-10,000ppm Hanna, Thermo, Genway or exact equivalent.
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Two firms participated; one firm M/S Lab Care Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Ph Hand Held pen type meter 0-16ph Qty/Pack size 1Nos Hannah/ezydo	Rs.6,500/-
		TDS Hand Held pen type meter 0-10000pp Qty/Pack size 1 Nos. Hannah/ezydo	Rs.6,500/-

Procurement Committee may approve purchase from the bidder M/S Lab Care Karachi @ the rate of **Rs.6,500/- each** as per given specification.

59.	First aid box. First aid box All purpose, soft sided kit contents: Bandage, injury treatment, Tropical antiseptic, Medicine, Instruments/ Misc: scissors, Tweezers, Thermometer, Safety pins, Vinyl gloves, Cotton tipped applicators (250-300pieces).
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Lab Care Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	First Aid Box(according to required spec), Qty/Pack size 6 complete loaded box, Premier	Rs.4,500/-
2	M/S Burraq Business Corporation, Hyd	High quality, material durable, easy carry, light weight, No moister germ.	Rs.49,000/-

Procurement Committee may approve purchase from 1st lowest the bidder M/S Lab Care Karachi @ the rate of **Rs.4,500/- each** as per given specification.

60.	pH electrode. pH electrode. Glass combination, pH range 0-14, temp. range 0-60°C active dimension 120x12mm outer junction ceramic outer electrolyte liquid
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One firm M/S AL-Beruni Scientific Store, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	BNC USA.	Rs.11,000/- each

Procurement Committee may approve purchase from the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.11,000/- each** as per given specification.

61.	Gas Room heater, Portable, heat level 1.5-4.2kw, 3 ceramic boards Adjustable thermostat, Metal material free standing for laboratory room.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

62.	Pestle and mortar, porcelain, white, Mixing/ grinding Bowl set medium (10cm diameter)
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One firm M/S AL-Beruni Scientific Store, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	China.	Rs.240/- each

Procurement Committee may approve purchase from the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.240/- each** as per given specification.

63.	Forcep stainless steel. Tissue forceps 130mm straight.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	High quality material, fine and best design. Pkt of 12 Nos.	Rs.1,800/- Pkt (Rs.150/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.195/- each

Procurement Committee may approve purchase from 1st lowest the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,800/- Pkt (Rs.150/each)** as per given specification.

64.	Tissue forceps 130mm curved stainless steel.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyd.	High quality material. Fine and best design to carry easy Pkt of 12 Nos.	Rs.1,900/- Pkt (Rs.158/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.195/- each

Procurement Committee may approve purchase from 1st lowest the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,900/- Pkt (Rs.158/each)** as per given specification.

65.	Dressing scissor straight 125mm blunt point.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality. Pkt of 12 Nos.	Rs.2,500/- Pkt (Rs.208/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.170/- each

Procurement Committee may approve purchase from 1st lowest the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.170/- each** as per given specification.

66.	Dressing scissor straight blunt/one pointed 125mm.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification, Imported fine quality. Pkt of 12 Nos.	Rs.2,700/- Pkt (Rs.225/each)
2.	M/S AL-Beruni Scientific Store, Hyderabad	Superiors.	Rs.170/- each

Procurement Committee may approve purchase from 1st lowest the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.170/- each** as per given specification.

67.	Reagent Basin 60ml trough reservoir white poly propylene.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

68.	Green Nucleic acid stain for DNA staining, 5x1ml Promega, Fermentas or exact equivalent.
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One firm M/S World Wide Scientific Karachi participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K0221 Maxima SYBR Green/ROX qPCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200x25µl	Rs.39,500/-

Procurement Committee may approve purchase from the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.39,500/-** as per given specification.

69.	Ethidium bromide, Molecular biology grade, 1gram Sigma, Merck, Scharlau or exact equivalent
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 7870.1 Ethidium bromide, Molecular Biology Grade M/s Carl Roth Germany Qty 01g	Rs.10,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 43109 Merck (Molecular biology grade)	Rs.9,700/- per 1gm
3	M/S Musaji Adam & Sons, Karachi	Ethidium bromide, for biochemical purposes (Cat # ET0108), Make Scharlau, Spain, Packing 1gm	Rs.12,825/-

Procurement Committee may approve purchase from 1st lowest the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.9,700/- per 1gm** as per given specification.

70.	Agrose, Molecular biology grade, 100grams Sigma, Merck, Scharlau or exact equivalent
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Five firms participated; four firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# R9012LE HyAgarose LE Agarose, Multi-purpose, Molecular Biology Grade M/s ACT Gene USA Qty 100g	Rs.13,000/- per 100g
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2120 Merck (Molecular biology grade)	Rs.19,000/- per 100g
3	M/S Musaji Adam & Sons, Karachi	Agarose Make USA, Packing 1Kg	Rs.78,000/-
4	M/S S.A. Enterprises, Hyderabad	Agrose, Molecular biology grade Packing 100 grams, Manufacturer Conda Lab, Spain	Rs.41,160/- 100grams

Procurement Committee may approve purchase from 1st lowest the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.13,000/- per 100g** as per given specification.

71.	Tris, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# T838 Tris Base, Molecular Biology Grade M/s Phyto Tech.USA Qty 01kg	Rs.22,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648311 Merck (Molecular biology grade)	Rs.19,700/- P Kg.
3	M/S Musaji Adam & Sons, Karachi	Tris-(hydroxymethyl)-aminomethane, molecular biology grade (Cat # TR0424), Make Scharlau, Spain Packing 500gm	Rs.18,630/-

Procurement Committee may approve purchase from 1st lowest the bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.19,700/- P Kg** as per given specification.

72.	Tris Hcl, Molecularbiology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Five firms participated; three firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# T858 Tris HCl, Molecular Biology Grade M/s Phyto Tech. USA Qty 01kg	Rs.22,000/- P.Kg.
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 648313 Merck (Molecular biology grade)	Rs.31,000/- p Kg
3	M/S Musaji Adam & Sons, Karachi	Tris-HCl, molecular biology grade (Cat # TR0425), Make Scharlau,Spain Pac of 1kg	Rs.38,600/-

Procurement Committee may approve purchase from 1st lowest the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.22,000/- P.Kg** as per given specification.

73.	Green Master Mix (2X), High quality, 100reaction Promega, or exact equivalent.
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One firm M/S World Wide Scientific Karachi participated, quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K1081 DreamTaq Green PCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200react	Rs.20,500/- 200react

Procurement Committee may approve purchase from the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.20,500/- 200react** as per given specification.

74.	DNA Laddar, 100bp range 100-3000, 1 vial Promega, or exact equivalent
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Five firms participated; four firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	100bp PlusII DNA ladder(100-5000bp), Packing 1 vial /500ul, TRANS UAE	Rs.38,000/-
2	M/S World Wide Scientific Karachi	CAT# SM0321 GeneRuler 100bp Plus DNA Ladder,ready-to-use (100-3000bp) for 100lanes M/s Thermo Scientific (Fermentas), Qty 01vail	Rs.10,900/- Qty 01vail
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck 100loading	Rs.16,000/- P.50g
4	M/S S.A. Enterprises, Hyderabad	Packing 1 Vial, Manufacturer Molecule-on, New Zealand	Rs.20,580/- vial

Procurement Committee may approve purchase from 1st lowest the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.10,900/- Qty 01vail** as per given specification.

75.	DNTPs, High quality, 1ml Promega, or exact equivalent
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Five firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	High Pure dNTPs(2.5mM), Qty/ Packing size 1 ml, TRANS UAE	Rs.25,000/-
		High Pure dNTPs(10mM), Qty/ Packing size 1 ml, TRANS UAE	Rs.35,000/-
2	M/S World Wide Scientific Karachi	CAT# R0241 dNTP Mix, M/s Thermo Scientific (Fermentas) Qty 01ml	Rs.10,900/-
3	M/S AL-Beruni Scientific Store, Hyderabad	Merck pack of 10ml.	Rs.15,000/-
4	M/S Talha Enterprises, Karachi	DNTPs,High Quality 1ML Bio-World USA	Rs.45,000/- each
5	M/S S.A. Enterprises, Hyderabad	DNTPs 10 mM dNTP Mix Packing Vial 1ml Manufacturer Molecule-on, New Zealand	Rs.23,520/- vial

Procurement Committee may approve purchase from 1st lowest the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.10,900/- 1ml** as per given specification.

76.	Nuclease free water, High quality, 1000ml Promega, or exact equivalent
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 3255.1 Water, sterile, free from pyrogen, hypotonic M/s Carl Roth Germany Qty 01L	Rs.9,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.14,000/- P.Lit
3	M/S Musaji Adam & Sons, Karachi	Nuclease Free Water, High Quality Make Hyclone, Packing 1000ml	Rs.6,075/- 1000ml

Procurement Committee may approve purchase from 1st lowest the bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.6,075/- 1000ml** as per given specification.

77.	Acetic Acid, Molecular biology grade, Sigma, 2.5 liter Merck, Scharlau or exact equivalent
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Five firms participated, one firm price not quoted; one firm M/S World Wide Scientific Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1.	M/S World Wide Scientific Karachi	Merck Acetic Acid, Molecular Biology Grade M/s Merck Qty 2.5L	Rs.9,000/- each bottle.

Procurement Committee may approve purchase from the bidder M/S World Wide Scientific Karachi @ the rate of **Rs.9,000/- each bottle** as per given specification.

78.	EDTA, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent.
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Five firms participated; two firms quoted technical specification in agreement with tender specification. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# X986.2 EDTA, Molecular Biology Grade M/s Carl Roth Germany 1kg.	Rs.24,300/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 4005 Merck (Molecular biology grade) / Sigma..	Rs.11,000 P.Kg.

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.11,000 P.Kg** as per given specification.

79.	Boric acid, Molecular biology grade, Sigma, 1Kg Merck, Scharlau or exact equivalent
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Four firms participated; three firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	RDH Boric Acid, Molecular Biology Grade Qty 01kg	Rs.8,000/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Cat # 2710 Merck (Molecular biology grade).	Rs.9,000/- P.Kg.
3	M/S Musaji Adam & Sons, Karachi	Boric acid, molecular biology grade (Cat # AC0580), Make Scharlau, Spain Packing 1kg	Rs.11,480/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.8,000/- P.Kg** as per given specification.

80.	DNA Extraction Kit, Column base, high yeild, high purity. For Blood, Tissue, Culture media, Bacteria. 50 reaction/kit, Qiagen, Invitrogen or exact equivalent
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# K0721 GeneJET™ Genomic DNA Purification Kit for Blood, Tissue, Bacteria, spin column base M/s Thermo Scientific (Fermentas) Qty 50prep	Rs.28,000/- per kit
2	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.42,000/- per Kit

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.28,000/- per kit** as per given specification.

81.	Trizol reagent, For RNA, DNA and protein extraction, 200ml, Invitrogen or exact equivalent
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Two firms participated; one firm M/S World Wide Scientific Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	TR 118 TRI Reagent for RNA isolation for 200-400 applications M/s 'MRC' USA Qty 200ml	Rs.59,000/- 200ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.59,000/- 200ml** as per given specification.

82.	Primer Babesia Reverse & Forward
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Babesia Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Babesia Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

83.	Primer Theileria Reverse & Forward.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Theileria Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Theileria Reverse & Forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

84.	Primer P.muttocida Reverse, Forward, Universal and specific A,B,C.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer P.muttocida Forward & Reverse M/s Gene Link USA.	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer P. muttocida Reverse, Forward, universal and specific A,B,C Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

85.	Primer contagious caprine Pleunopneumonia (CCPP), Reverse and Forward.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer CCPP Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer contagious caprine Pleunopneumonia CCPP Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

86.	Primer Clostridium Perfergens (Entertoaxemia) Reverse and Forward.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Clostridium Perfergens Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer Clostridium perfergens (Entertoaxemia) Reverse and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

87.	Primer camel pox Reverse and Forward.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Primer Camel pox Forward & Reverse M/s Gene Link USA	Rs.80/- base
2	M/S S.A. Enterprises, Hyderabad	Primer camel pox reserve and forward Packing 25 Bases Manufacturer Bioneer, Korea	Rs.294/- base

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.80/- base** as per given specification.

88.	Paraffin Wax Scharlau, Leica or equivalent 5kg or minimum packing.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S AL-Beruni Scientific Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S AL-Beruni Scientific Store, Hyderabad	Merck.	Rs.7,700/- P.2.5 Kg.
2	M/S Musaji Adam & Sons, Karachi	Paraffin Wax, Make Scharlau, Spain Packing 1kg	Rs.3,850/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S AL-Beruni Scientific Store, Hyderabad @ the rate of **Rs.7,700/- P.2.5 Kg** as per given specification.

89.	Thin wall PCR tubes 0.2 ml, Thin-wall flat cap PCR tubes 0.2ml .pre-sterilized, Ultra-thin and consistent wall thickness. White transparent Color, DNA and RNA free, Eppendorf, Sigma, Axgen or exact equivalent.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	Cat # 60-0082 0.2ml flat cap PCR Tubes, DNA, RNA free, Pre sterile transparent 1000/bag M/S BioLogix USA	Rs.5,500/-
2	M/S Musaji Adam & Sons, Karachi	(PCR-02-C), Make Corning-Axygen Packing 1000Pcs.	Rs.6,080/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.5,500/- 1000/bag** as per given specification.

90.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.2mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# PC0013 PCR Tube Rack with lid, 96-well, colored, for 0.2ml PCR Tubes, 12rack/pkt M/s GEBio USA Qty 01pkt	Rs.17,000/- (Rs.1,416.60/ each)
2	M/S Musaji Adam & Sons, Karachi	(R-96-PCR-FST)Make Corning-Axygen Packing Each	Rs.870/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.870/- each** as per given specification.

91.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.5mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Two firms participated; one firm M/S Musaji Adam & Sons, Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	PCR Tube rack, 96 well racks with lid in different color for the storage and handling of 0.2ml, PCR tubes, Eppendorf (R-96-PCR-FST) (R-96-PCR-FST) Make Corning-Axygen, Packing Each	Rs.870/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.870/- each** as per given specification.

92.	Eppendorf tube racks, Racks with lid in different color for the storage and handling of 1.5ml eppendorf tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S Lab Care Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Eppendorf tube rack 60 place for 1.5ml/0.2ml, pack of 12 racks, AHN Germany	Rs.9,500/-
2	M/S World Wide Scientific Karachi	CAT# 90- CAT# 9009 Eppendorf Tube Rack with lid in different color for 1.5ml tubes, 12rack/pack M/s Biologix USA Qty 01pkt	Rs.18,470/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lab Care Karachi @ the rate of **Rs.9,500/- each** as per given specification.

93.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0010-R-NS 10µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (TF-20-R-S) Make Corning-Axygen Packing 96 Tips	Rs.1,420/-
3	M/S S.A. Enterprises, Hyderabad	Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,200/- each** as per given specification.

94.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0100-R-NS 100µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TF-100-R-S) Make Corning-Axygen Packing 96 Tips	Rs.1,345/-
3	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,200/- each** as per given specification.

95.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 200ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT0200-R-NS 200µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (TF-200-R-S), Make Corning-Axygen, Packing 96 Tips	Rs.1,345/-
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Biopointe Scientific, USA	Rs.20,580/- box

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,200/- each** as per given specification.

96.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# FT1000-R-NS 1000µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul) (TF-1000-R-S) Make Corning-Axygen, Packing 100 Tips	Rs.1,385/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.1,200/- each** as per given specification.

97.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0010 1-10µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.90/each)
2	M/S Musaji Adam & Sons, Karachi	Size (0.5-20ul) (T-300-R-S), Make Corning-Axygen, Packing 96 Tips	Rs.870/- (Rs.9/each)
3	M/S S.A. Enterprises, Hyderabad	size: 10ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.80/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.2,900/- (Rs.2.90/each)** as per given specification.

98.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Size (1-100ul) (TE-204-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Rs.815/- (Rs.8.48/each)
2	M/S S.A. Enterprises, Hyderabad	size: 100ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.80/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.815/- (Rs.8.48/each)** as per given specification.

99.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size:200ul , Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-0200 1-200µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.90/each)
2	M/S Musaji Adam & Sons, Karachi	Size (1-200ul) (T-200-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Rs.815/- (Rs.8.48/each)
3	M/S S.A. Enterprises, Hyderabad	size: 200ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.80/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.2,900/- (Rs.2.90/each)** as per given specification.

100.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S World Wide Scientific Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	CAT# 20-1000 200-1000µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.9/- each)
2	M/S Musaji Adam & Sons, Karachi	Size (100-1000ul)(T-1000-B-R-S) (Sterilized), Make Corning-Axygen, Packing 100 Tips	Rs.910/- (Rs.9.10/each)
3	M/S S.A. Enterprises, Hyderabad	size: 500ul Packing Box (100/ box) Manufacturer Jet Bio-Filtration Co., Ltd	Rs.5,880/- box (Rs.58.8/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.2,900/- (Rs.2.9/- each)** as per given specification.

101.	4-way flipper rack, Plastic material, four way tube holder Holds thirty-two 0.5ml, thirty-two 1.5ml, twelve 15ml or four 50ml tubes, each on a different side, CLP, Corning, Roth, or exact equivalent.
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Two firms participated; one firm M/S World Wide Scientific Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S World Wide Scientific Karachi	4-way flipper rack, four 50ml, twelve 15ml, twenty four 1.5ml and 0.5ml, 10rack/pkt Qty 01pkt	Rs.18,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S World Wide Scientific Karachi @ the rate of **Rs.18,000/-each** as per given specification.

102.	Carboys with Spigot, White clear or semi transparent, 8-10 lit capacity, Roth, Nalgen, Fisher or exact equivalent.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	carboys 10 liter with spigot semi transparent, pack of 6nos, Kartel Italy	Rs.48,500/-
2	M/S Musaji Adam & Sons, Karachi	Carboys with Spigot, White clear or semi transparent, 10 lit capacity Make Kartell, Italy, Packing Each	Rs.5,130/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.5,130/- each** as per given specification.

103.	Single Tube rack, Holds a single 50mL conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
104.	Single Tube rack, Holds a single 15ml conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.

One firm M/S AL-Beruni Scientific Store, Hyderabad participated and not qualified to required specification. Procurement Committee may approve purchase of tender item from local market on quotation.

105.	Refrigerator rack, Lower section to be filled chilled water or Top insert try hold 50 tube of 1.5ml and 15 tubes of 15 and 50 ml. CLP, fisher or exact equivalent.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

106.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 25.4x7.9mm (1x 5/16"), CLP, fisher or exact equivalent.
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Two firms participated; one firm M/S Musaji Adam & Sons, Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring. Pack contain six Bars total, two each of the sizes :25.4x7.9mm, Make Kartell, Italy, Packing Each	Rs.510/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.510/- each** as per given specification.

107.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 38.1x7.9mm (1 1/2x 5/16"), CLP, fisher or exact equivalent.
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Two firms participated; one firm M/S Musaji Adam & Sons, Karachi quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Musaji Adam & Sons, Karachi	Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring.Pack contain six Bars total,two each of the sizes :38.1x7.9mm, Make Kartell, Italy, Packing Each	Rs.880/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.880/- each** as per given specification.

108.	Wash Bottles, White color, 500ml capacity, fisher, Roth or exact equivalent.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Musaji Adam & Sons, Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	Wash bottle 500ml white colour, poly lab UK	Rs.4,500/-
2	M/S AL-Beruni Scientific Store, Hyderabad	Germany.	Rs.1,000/- each
3	M/S Musaji Adam & Sons, Karachi	Make Kartell, Italy, Packing Each	Rs.785/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Musaji Adam & Sons, Karachi @ the rate of **Rs.785/- each** as per given specification.

109.	Hypo chlorite Acid Lab grade, 4 liter bottle, Fischer, Scharlau or exact equivalent
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Lab Care Karachi offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Lab Care Karachi	hypochlorite labgrade, bottle of 4 liter, Unichem UK	Rs.7,500/-
2	M/S Musaji Adam & Sons, Karachi	Sodium Hypochlorite 15%, Make Scharlau, Spain, Packing 1Lit.	Rs.2,970/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lab Care Karachi @ the rate of **Rs.7,500/- each** as per given specification.

110.	Moist lens wipes Quick Dry and Smear free individual sachet packing content Alcohol Denot Boots or exact equivalent.
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No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

111.	Zanil litre pack.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Rs.1,710/- per liter
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Rs.1,750/- per liter

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.1,710/- per liter** as per given specification.

112. Sysstmax 450ml.

Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Rs.1,300/- per 450ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Rs.1,340/- per 450ml bottle.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.1,300/- per 450ml bottle** as per given specification.

113. Valbazen litre pack.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Orison Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack, Albendazole 11.25% (Pfizer)	Rs.5,575/- each 1litre pack
2	M/S Orison Corporation, Hyderabad	1 liter Pack, Albendazole 11.25% , (Pfizer)	Rs.5,490/- each 1litre pack
3	M/S Burraq Business Corporation, Hyderabad	Imported Pfizer USA company packing 1 liter.	Rs.5,795/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Orison Corporation, Hyderabad @ the rate of **Rs.5,490/- each 1litre pack** as per given specification.

114. Nilzan Plus litre pack.

Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Rs.2,080/- per liter
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Rs.2,100/- per liter

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.2,080/- per liter** as per given specification.

115.	Nilzan plus 100ml.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole Hcl 15mg/ml, Oxytoclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Rs.345/- 100ml per bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole Hcl 15mg/ml, Oxytoclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Rs.350/- 100ml per bottle.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.345/- 100ml per bottle** as per given specification.

116.	Ampiclox L/A 50ml.
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One firm M/S Burraq Business Corporation, Hyderabad participated and not qualified to required specification. Procurement Committee may approve of tender item from the local market on quotation.

117.	Mastivex 1/m tube or equivalent Each 10gm syringe
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Three firms participated and **all firms not qualified to required specification.** Procurement Committee may approve purchase of tender item from local market on quotation.

118.	Trypa Medium for surra Packing 10x1g sachets.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Rs.3,500/- each sachet 1gram
2	M/S Gul Rays Enterprises, Hyderabad.	Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Rs.35,800/- each 10 sachets 1gram (Rs.3,580/each)

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.3,500/- each sachet 1gram** as per given specification.

119. Zorox gold 500ml.

Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S I.K. Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Rs.2,180/- each 500ml
2	M/S Orison Corporation, Hyderabad	Packing 500 ml, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Rs.2,250/- each 500ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S I.K. Enterprises, Hyderabad @ the rate of **Rs.2,180/- each 500ml** as per given specification.

120. TRIFAS suspension 100ml.

Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Rs.470/- 100ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Rs.500/- 100ml bottle.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.470/- 100ml bottle** as per given specification.

121. TRIFAS suspension 500ml.

Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt.) Limited.	Rs.2,010/- 500ml bottle.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt.) Limited.	Rs.2,060/- 500ml bottle.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.2,010/- 500ml bottle** as per given specification.

122.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 100ml. Medi-Vet Pharma	Rs.415/- 100ml.
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml, Medi-Vet.	Rs.425/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.415/- 100ml** as per given specification.

123.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 50ml. Medi vet Pharma	Rs.1,900/- 50ml
2	M/S Choice Enterprises, Hyderabad	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml Medi-Vet.	Rs.2,000/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,900/- 50ml** as per given specification.

124.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 100ml
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Choice Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Rs.850/-100ml
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Rs.800/- 100ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.800/- 100ml** as per given specification.

125.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 500ml
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Choice Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Rs.3,600/- 500ml
2	M/S Choice Enterprises, Hyderabad	Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Rs.3,500/- 500ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.3,500/- 500ml** as per given specification.

126.	Fluka Super Drench 1000ml.
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One firm M/S Burraq Business Corporation, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad.	As per specification Brand name.	Rs.3,500/- 1000ml

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.3,500/- 1000ml** as per given specification.

127.	Fenid Gold drench 1000ml.
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Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S Orison Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Packing 1 liter Pack, Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %	Rs.2,950/- each 1litre pack
2.	M/S Orison Corporation, Hyderabad	1 liter Pack Oxfendazole 2.265 % / oxyclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Medicure Laboratories Pharmaceutical Manufacturers, karachi.	Rs.2,850/- each 1litre pack

Procurement Committee may approve purchase from the 1st lowest bidder M/S Orison Corporation, Hyderabad @ the rate of **Rs.2,850/- each 1litre pack** as per given specification.

128.	Fenid Gold drench 250ml.
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One firm M/S Burraq Business Corporation, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification Brand name.	Rs.1,000/- 250ml

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,000/- 250ml** as per given specification.

129.	Inj: Gentamicin 100ml.
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Six firms participated; four firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Inj: Gencine Packing 100 ml, Gentamicin 100 mg	Rs.1,050/- each 100ml
2	M/S Orison Corporation, Hyderabad	Inj: Gencin 100 ml, Gentamicin 100 mg,	Rs.1,180/- each 100ml
3	M/S China Medical Store, Hyderabad	Gentamicin 10% Packing 100ml, UNIVET	Rs.1,400/- P100ml
		Gentamicin 20% Packing 100ml, UNIVET	Rs.2,210/- P.100ml
4	M/S Gul Rays Enterprises, Hyderabad.	Gentamicin 10% Packing 100ml, UNIVET	Rs.1,450/- P100ml
		Gentamicin 20% Packing 200ml, UNIVET	Rs.2,300/- P.100ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.2,210/- 20% P.100ml** as per given specification.

130.	Inj: Tribriksen 50ml.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Tribriksen™ (Trmethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Rs.680/- per 50ml
2	M/S Gul Rays Enterprises, Hyderabad.	Tribriksen™ (Trmethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Rs.700/- per 50ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.680/- per 50ml** as per given specification.

131. Inj. Pantamycin 100ml.

One firm M/S Burraq Business Corporation, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corp, Hyderabad.	As per specification Brand name.	Rs.1,400/- 100ml

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,400/- 100ml** as per given specification.

132. Inj. Gentipra-ts 100ml.

Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Rs.2,150/- per 100ml.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Rs.2,200/- per 100ml.

Procurement Committee may approve purchase from the bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.2,150/- per 100ml** as per given specification.

133. Inj. Oxytetracyclen LA 100ml.

Five firms participated; four firms quoted technical specification in agreement with tender specification. M/S Choice Enterprises, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Rs.1,180/- 100ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj; Remacycline L.A. Composition: Oxytetracycline..20g, Sodium formaldehyde sulphoxylate..o.5g, Excipient q.s.p. 100ml, Packing 100ml, Manufactured by COOPHVET. FRANCE .	Rs.1,210/- 100ml vial
3	M/S Burraq Business Corporation, Hyderabad	Inj: Oxytetracycline 10% Each ml contains: Oxytetracycline HCL 100mg Packing 100ml HEBEI YUANZHENG PHARMACEUTICAL CO. LTD. CHINA.	Rs.1,890/- 100ml.
4	M/S Choice Enterprises, Hyderabad	Terrasym LA-200 Inj. Composition: Each ml contains: Oxytetracycline HCl..200mg, Packing 100ml, Symans.	Rs.750/- 100ml

Procurement Committee may approve purchase from the bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.750/- 100ml** as per given specification.

134.	Inj. Fluean
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm.	Technical Specification of the firm.	Remarks.
1	M/S China Medical Store, Hyderabad	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Rs.276/- 10ml
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Rs.285/- 10ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.276/- 10ml** as per given specification.

135.	Inj: TRY-BAN 3g vial
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One firm M/S Burraq Business Corporation, Hyderabad participated and quoted the specification, which is in agreement with the specification given in tender item and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad.	Tryban	Rs.960/- 3g vial

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.960/- 3g vial** as per given specification.

136.	Inj. Imezol 100ml.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S China Medical Store, Hyderabad and M/S Gul Rays Enterprises, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Rs.9,980/- per 100ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Rs.9,980/- per 100ml vial
3	M/S Burraq Business Corporation, Hyderabad	Imezol 100ml	Rs.11,000/- per 100ml.

Procurement Committee may approve purchase from the 1st lowest bidders M/S China Medical Store, Hyderabad and M/S Gul Rays Enterprises, Hyderabad @ the rate of **Rs.9,980/- per 100ml vial** as per given specification.

137.	Inj. Butalex
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S China Medical Store, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Rs.4,410/- 20ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Butalex Composition: Buparaquone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Rs.4,500/- 20ml vial
3	M/S Burraq Business Corporation, Hyderabad	Butalex	Rs.4,500/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.4,410/- 20ml vial** as per given specification.

138.	Inj. Enrofloxacin.
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Six firms participated; one firm M/S Burraq Business Corporation, Hyderabad quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Enrofloxacin 10% packing 50ml Hebei China.	Rs.1,200/- 50ml
		Inj: Enrofloxacin 10% packing 100ml Hebei China.	Rs.2,100/-

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,200/- 50ml** as per given specification.

139.	Inj. Tetravaxes
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One firm M/S Burraq Business Corporation, Hyderabad participated and quoted technical specification in agreement with tender specification and offered the rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Tetravex	Rs.1,990/-

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs. Rs.1,990/- each** as per given specification.

140.	Inj. Hyperalonaenro-1 100ml.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Rs.2,650/- 100ml vials.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition per ml Enrofloxacin 50mg, Packing 100ml bottle, Marush Parma	Rs.2,850/- 100ml vials.
3	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Rs.2,100/- 100ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.2,100/- 100ml** as per given specification.

141.	Inj. Ivomec 50ml.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, Merial	Rs.5,950/- 50ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition 1% Ivermectin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, Merial	Rs.6,000/- 50ml vial.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.5,950/- 50ml vial** as per given specification.

142.	Inj. Trisulpha 50ml.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	As per specification brand name.	Rs.415/- 50ml each
2	M/S Lucky Brothers, Hyderabad	As per specification tender.	Rs.560/- each vial

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.415/- 50ml each** as per given specification

143.	Inj. Trimethosulf100ml Germany.
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One firm M/S Burraq Business Corporation, Hyderabad firms participated, **not qualified to required specification.** Procurement Committee may approve purchase of tender item from local market on quotation.

144. Inj. Brema Mectin 50ml Germany.

Three firms participated; two firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Rs.1,480/- 50ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Rs.1,500/- 50ml vial.

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.1,480/- 50ml vial** as per given specification

145. Inj: Imidocarb 50ml

One firm M/S Burraq Business Corporation, Hyderabad participated, quoted the specification, which is in agreement with the specification given in tender item and offered the rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Inj: Imidocarb 50ml	Rs.1,500/- 50ml

Procurement Committee may approve purchase from the bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,500/- 50ml** as per given specification

146. Inj: Imicarb 50ml.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S China Medical Store, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Rs.1,480/- 50ml vial
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Rs.1,500/- 50ml vial
3	M/S Burraq Business Corporation, Hyderabad	Inj: Imicarb 50ml.	Rs.2,100/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,480/- 50ml vial** as per given specification

147. Inj. Buprex 20ml

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S China Medical Store, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Inj: Buprex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Rs.1,300/- 20ml vial.
2	M/S Gul Rays Enterprises, Hyderabad.	Inj: Buprex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Rs.1,350/- 20ml vial.
3	M/S Burraq Business Corporation, Hyderabad	Inj. Buprex 20ml	Rs.1,480/- 20ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,300/- 20ml vial** as per given specification

148. Inj: Dura Plex 20ml.

No firm offered the technical specification. Procurement Committee may approve purchase of tender item from local market on quotation.

149. Antibiotic 3rd generation.

Six firms participated; two firms quoted technical specification in agreement with tender specification. M/S Burraq Business Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Gul Rays Enterprises, Hyderabad.	Draxxin Inj: Composition: Tulathromycin..100mg/ml, Monothioglycerol ..5mg/ml, Packing 100ml, Pfizer.	Rs.17,000 50ml vial
2	M/S Burraq Business Corporation, Hyderabad	Medi-T.G.C. Inj: Composition: Each ml contains. Tylosin Tartrate B.P. Vety. 200mg, Gentamycin Base (as sulphate) B.P. 100mg, Colistin Sulphate B.P. 50mg. Packing 50ml, Medi-Vet (Pvt.) Ltd.	Rs.1,575/- 50ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.1,575/- 50ml** as per given specification.

150. Antiparastic drugs 3rd generation

Six firms participated; three firms quoted technical specification in agreement with tender specification. M/S China Medical Store, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S China Medical Store, Hyderabad	Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Rs.2,610/- 500ml
2	M/S Gul Rays Enterprises, Hyderabad.	Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Rs.2,900/- 500ml
3	M/S Burraq Business Corporation, Hyderabad	Anthel Vet-M suspension, Composition each ml contains: Closantel 50mg, Mebendazole 75mg, Cobalt Sulphate 9mg. Packing 500ml, Medi-Vet. (Pvt.) Ltd.	Rs.5,500/- 500ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S China Medical Store, Hyderabad @ the rate of **Rs.2,610/- 500ml** as per given specification

151.	Anitiprotozoan 3rd generation.
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Four firms participated; two firms quoted technical specification in agreement with tender specification. M/S Orison Corporation, Hyderabad offered the lowest rate.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S I.K. Enterprises, Hyderabad	Imidox Inj Packing 100 ml Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Rs.7,750/- each 100ml
2	M/S Orison Corporation, Hyderabad	Imidox Inj 100 ml Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Rs.7,480/- each 100ml

Procurement Committee may approve purchase from the 1st lowest bidder M/S Orison Corporation, Hyderabad @ the rate of **Rs.7,480/- each 100ml** as per given specification

152.	Wheat Straw Per kg.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Lucky Brothers, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.15.70 per KG
2	M/S Burraq Business Corporation, Hyderabad	Fresh, No dust, No moist.	Rs.15/-
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High fiber.	Rs.13.50
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.9/- per KG

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lucky Brothers, Hyderabad @ the rate of **Rs.9/- per KG** as per given specification

153.	Wheat Bran Per kg.
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Four firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Lucky Brothers, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.46.40 per KG
2	M/S Burraq Business Corporation, Hyderabad	High fal protein, fresh.	Rs.29/-Per kg
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fibre.	Rs.31/- per kg
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.21/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lucky Brothers, Hyderabad @ the rate of **Rs.21/- per KG** as per given specification

154. Broken Wheat Per kg.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Lucky Brothers, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.63.70/- per KG
2	M/S Burraq Business Corporation, Hyderabad	High foil, Fresh, Fine quality high protein,	Rs.50/- per kg
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.40/- per kg
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.32/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lucky Brothers, Hyderabad @ the rate of **Rs.32/- per KG** as per given specification

155. Rice Polish livestock feed category per KG

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Fine quality, high fiber, good dietary, no dust, moist.	Rs.26/- per kg
2	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.46/- per kg
3	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.29/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.26/- per KG** as per given specification

156. Cotton Seed Cake Per kg

Four firms participated and quoted the specification, which is in agreement with the specification given in tender item. M/S Lucky Brothers, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.43.10 Per KG
2	M/S Burraq Business Corporation, Hyderabad	No moist, No dust, high quality sufficient diet value.	Rs.46/- per kg
3	M/S Choice Enterprises, Hyderabad	Fine, Fresh, Moistless, High Fiber.	Rs.36/- per kg
4	M/S Lucky Brothers, Hyderabad	As per tender specification.	Rs.25/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Lucky Brothers, Hyderabad @ the rate of **Rs. 25/- per KG** as per given specification

157.	Mustard Cake Per Kg.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.210/- per kg
2	M/S Burraq Business Corporation, Hyderabad	High quality.	Rs.200/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs. 200/- per KG** as per given specification

158.	Rocky salt.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.275/-
2.	M/S Burraq Business Corporation, Hyderabad	Fine and high quality.	Rs.250/-

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs. 250/-** as per given specification

159.	Mustard Sweet Oil Per Liter
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.218/- per KG
2	M/S Burraq Business Corporation, Hyderabad	Fresh, Fine, best quality.	Rs.200/- per liter
3	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Rs.300/- per liter

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.200/- per liter** as per given specification.

160.	Rock Salt Per Kg.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Shameel Enterprises, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.108.10 per kg
2	M/S Burraq Business Corporation, Hyderabad	Fresh, fine, best quality.	Rs.150/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Shameel Enterprises, Hyderabad @ the rate of **Rs.108.10 per kg** as per given specification

161.	Sunflower meal/ cake per kg.
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Two firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Burraq Business Corporation, Hyderabad	Feed grade , high dietary	Rs.190/- per kg
2	M/S Choice Enterprises, Hyd	Fine, Fresh, Moistless, High Fiber.	Rs.195/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.190/- per kg** as per given specification

162.	Maize per Kg/ day.
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Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Choice Enterprises, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.12/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green high nutrition value sufficient.	Rs.12/- pr kg
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Rs.8.75 per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.8.75 per kg** as per given specification

163. Burseem per Kg/ day.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.18/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green, dietary fiber high nutrition.	Rs.6.75 per kg
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Rs.9/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.6.75 per kg** as per given specification.

164. Junter per Kg/ day.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Choice Enterprises, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.12/- per Kg
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh lush green, high fiber.	Rs.12/- per kg
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Rs.8/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.8/- per kg** as per given specification.

165. Sorghum per Kg/ day.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Burraq Business Corporation, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyderabad	Good quality.	Rs.12.40 per Kg.
2	M/S Burraq Business Corporation, Hyderabad	Best quality fresh green.	Rs.6.75 pr kg
3	M/S Choice Enterprises, Hyderabad	Green, Fresh, High great quality.	Rs.9/- per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Burraq Business Corporation, Hyderabad @ the rate of **Rs.6.75 pr kg** as per given specification.

166. Lucerne per Kg/ day.

Three firms participated and quoted the specification, which is in agreement with the specification given in tender item M/S Choice Enterprises, Hyderabad offered the lowest rates.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Shameel Enterprises, Hyd	Good quality.	Rs.17.00 per Kg.
2	M/S Burraq Business Corporation, Hyderabad	Farm fresh, lush green sufficient dietary fiber feed grade, high nutrition.	Rs.12/- per kg
3	M/S Choice Enterprises, Hyd	Green, Fresh, High great quality.	Rs.7.75 per kg

Procurement Committee may approve purchase from the 1st lowest bidder M/S Choice Enterprises, Hyderabad @ the rate of **Rs.7.75 per kg** as per given specification.

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
Central Veterinary Diagnostic Laboratory
Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department,
Government Of Sindh, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research)
Sindh, Hyderabad.



**DIRECTORATE OF VETERINARY RESEARCH AND DIAGNOSIS
CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH
TANDO JAM TELEPHONE # 0222765279 FAX # 0222766964.**

MINUTES OF THE 1ST MEETING OF THE PROCUREMENT COMMITTEE HELD ON 29-01-2015 @ 12.30HOURS IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR THE OF PROCUREMENT OF 1.HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE, 2.COST OF OTHER STORE: CHEMICALS, BIOLOGICS, GLASS/ PLASTIC WARE & INSTRUMENTS, SAMPLE COLLECTION MATERIAL, ACCESSORIES, RESEARCH ASSISTANCE MATERIAL, FIRST AID MATERIAL, TRIAL TREATMENT MEDICINE AND FEEDING FOR EXPERIMENTAL ANIMALS” OF DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS, CVDL SINDH, TANDO JAM DURING THE CURRENT FINANCIAL YEAR 2014-15.

List of participants attached

The tender was advertised in national newspapers through information department & Government website. The tender was published in **daily Sindh Express Hyderabad, Daily Express Karachi, Daily Times and Daily Jang Karachi dated January 8-10, 2015, SPPRA website S.No.22320 dated January 7, 2015 and Sindh Government website dated January 8, 2015.**

Of the **14** firms purchased tender documents, 8 firms submitted sealed tenders (Technical and Financial proposal/envelops) for the tender as at Sr.# 1, where as, of the 19 firms purchased tender document, 16 firms submitted for the tender as at Sr. # 2 by closing date 29-01-2015 @12.00Noon at Directorate General, Livestock (Extension/Research) Sindh, Hyderabad.

The tenders were opened on 29-01-2015 at 12.30hours before seventeen (17) interested bidders/ authorized representatives (attendance sheet enclosed) in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad by the Procurement Committee.

The following decisions were taken in the meeting:

- The technical tenders be scrutinized for technical specification.
- Call deposits of all the participating firms be verified from relevant banks.
- Comparative statement and working paper be prepared showing the technical specification as per tender items and same may be put before the committee during its 2nd meeting for finalization of technical tenders for the opening of financial envelopes.
- 2nd meeting will be held on 13-02-2015 at 10.00am in the committee room of Livestock and Fisheries Department, GoS, Karachi, on the same date financial tenders (envelops) will be opened and bidders will be informed by Director, Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam accordingly.

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
CVDL Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department, GoS, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research) Sindh, Hyderabad.



MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 27-02-2015 @ 12.00NOON IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR PROCUREMENT OF

- 1. HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE.**
- 2. COST OF OTHER STORE; CHEMICALS, BIOLOGICS, GLASS/ PLASTIC WARE & INSTRUMENTS, SAMPLE COLLECTION MATERIAL, ACCESSORIES, RESEARCH ASSISTANCE MATERIAL FIRST AID MATERIAL, TRIAL TREATMENT MEDICINE AND FEEDING FOR EXPERIMENTAL ANIMALS.**

FOR THE DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2014-2015.



List of participants attached

The meeting started with the name of Allah the almighty. The Chairman Procurement Committee Livestock welcomed the participants of the meeting and opened the discussion on agenda items.

Director, Veterinary Research & Diagnosis, CVDL Sindh Tando Jam briefed the forum that tender were called through news papers for the procurement of:

- 1. Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture.**
- 2. Cost Of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First Aid Material, Trial Treatment Medicine and Feeding for Experimental Animals. Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material, Livestock Feeding for Animals and First Aid Medicine.**

For the Directorate of Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam during the current financial year 2014-15.

Tender advertisement appeared in **daily Sindh Express Hyderabad, Daily Express Karachi, Daily Times and Daily Jang Karachi** dated January 8-10, 2015, SPPRA website S.No.22320 dated January 7, 2015 and Sindh Government website dated January 8, 2015.

For the Serial # 1, **14** firms purchased tender documents, 8 firms submitted sealed tenders (Technical and Financial proposal/envelops), whereas, for the Sr.# 2, 19 firms purchased tender document, 16 firms submitted the tenders. Tenders were opened on 29-01-2015 @ 12.30hours before seventeen (17) interested bidders/ authorized

representatives in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad by the Procurement Committee. The Financial proposal (sealed tenders) were opened on 13-02-2015 @ 12.00noon before seven (07) bidders/authorized representatives in the Committee Room of Livestock and Fisheries Department Block No.90, Karachi.

Procurement Committee evaluated/scrutinized technically and finalized the tender. In the light of justification provided by the Director, Veterinary Research & Diagnosis, CVDL Sindh Tando Jam. The Procurement Committee decided that:

- Procurement Committee allowed the purchase of all the approved items according to the availability of funds under Development and Non-Development.
- Procurement Committee approved the lowest rates and procurement of the items from the participating bidder/companies having specification in agreement with tender specification.
- The items having price higher than the estimated price given in PC-I allowed to be purchased from lowest bidder at tender price; subject to the availability of funds.
- Items, where no participation occurred or specifications offered were found irrelevant allowed to be purchased on quotation if purchase is essentially required and within Rs.100,000/-.
- If any tax imposed by the government after the completion of tender price, then this increase in tax is allowed to be included in the quoted price of items, which were previously exempted.

1. PURCHASE OF HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE.

Sr. #	Name of items with specification.
A	Purchase of Hardware
1.	<p>Computers and Printers with all accessories. Desktop computer Processor Intel core i7 3.06 Or higher specification Mother Board, Intel original. Or higher specification Ram 4 GB DDR-3 Or higher specification, Hard Disk 500GB or higher. Casing ATX casing legend with heavy duty power supply. Optical drive, HD/DVD – Reader & writer Graphic Card Builtin. Key Board Heavy duty. Ether net card. 10/100 Mouse Heavy duty. Monitor LED17” or above, HD slot in CPU and connection. Dust cover Heavy duty Mouse Pad Thick Head phone With sound control. Sound Card Real Tack ALC 8885 or above. USB slots 4 No. 4 No. Operating system Windows 7, Genuine licensed CD Home/Professional Microsoft. with H.P. LASER JET 1020 or higher specification. Print technology Laser Processor Speed 266 MHz Maximum RAM 8 MB Standard RAM 8 MB Resolution 600 x 600 dpi Print speed B/W 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/A5/B5/ Letter/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.</p>

Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification.	Rate
<p>Intel core i.7Desktop computer, PROCESSOR: Intel core i7(3.2GHz), MOTHER BOARD: Intel, CACHE:8MB, RAM:4GB DDR 3, HDD:500 GB, OPTICAL DRIVE:DVDRW Super Multi DL, CASING:TOWER ATX (Legend), OTHER SPECS: Graphic Card, OPERATING SYS:Windows-7 (licensed), INPUT DEVICES:KB/Mouse, EXTRAS Dust Cover, Headphone. Screen Size:17" W, Viewable Image Size:470mm, Pixel Pitch:0.3(H)x0.3 (V)mm, Display Area:409.8 (H)x230.4 (V)mm. Brightness:200 cd/m², Contrast Ratio (typical):20000000:1 (DCR), Viewing Angle:90/50 (CR≥10), Recommended, Resolution:1366x768 @60Hz, Display Colours:16.7M, Input Signal: Analog RGB, Input Connector:15-pin D-Sub, Power Supply:90~240VAC, 50/60Hz, Power Consumption: Power On: <18W (Typical), Standby: <0.5W, Plug & Play: VESA DDC2B™ & DDC2B/CI , User Control: Auto/Exit, Eco(DCR)-, Image Ratio/+, Menu, Power, OSD Languages:16 languages, Speakers: No, Cabinet Colour: Black, Contrast Ratio:600 : 1, Note: If the same model not available at the time of delivery model of the product specified will be provided as per market availability. With HP LaserJet P1102W, Print Technology: Monochrome LaserJet, Print Speed:Up to 19PPM, Resolution: Up to 600x600x 2dpi (1200dpi effective output), Duty Cycle 5000pages monthly, Paper Handling: 10sheet priority feed slot, 150-sheet input tray, Processor:266 MHz Tensilica, Duplex:Manual, Wireless Connectivity: Yes WiFi 802.11b/g.</p>	<p>Rs.124,500/- each set</p>

B	Purchase of Plant & Machinery.
2	ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, Chromate, USA/U.K./Germany or Exact Equivalent imported.

Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Absorbance Reader Model: ELx800, BIOTEK INSTRUMENTS INC., USA, Reading speed:96 wells: 30 seconds, Physical Characteristics Power: 100-240 Volts AC. 50/60 Hz. Dimensions:15"W x 16.5"D x 7"H (38.1 x 41.9 x 17.8 cm) Specification Local Arrangement	Rs.582,660/- each
A). Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. <u>Minimum System Requirements</u> : • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions)	Rs.111,735/- each
B) Printer Epson. To be used direct with Elx800.	Rs.52,650/- each
C) Computer System, Core i3 with 18.5" LCD, Standard	Rs.79,560/- each

3	Auto micro plate washer with accessories strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Thermo, Bio Tech, Bio Rad, UK, USA, Germany or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Assays: ELISA (Cell-based assays) Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types:96 well. Maintenance: Pre-programmed maintenance routines. Magnet: High strength 96-well format. Washing Manifold Types:96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds Volume Range: 25 - 3,000 µL/well (configuration dependent). Selectable in 1 µL increments. Flow Rates: 1 - 9. Wash Cycles: 1 - 10. Supply Bottle: 2 L. Physical Characteristics Power: 100 - 240 Volts AC. 50/60 Hz. Dimensions: 14"W x 16"D x 6.5"H (35.6 x 40.6 x 16.5 cm).	Rs.582,660/- each

4	<p>ELISA reader with Microplate washer</p> <p>a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported.</p> <p>with</p> <p>b). Microplate washer with accessories; strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p>
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
<p>A) Elisa Reader with Microplate Washer Model: ELx800, BIOTEK INSTRUMENTS INC., USA. General. Detection modes: Absorbance Read methods:End point, kinetic and area scanning under computer control. Microplate types: 6- to 384-well plates. Software: Gen5 Reader Control Software. Onboard software: 55 user-programmable protocols. Absorbance: Light source: Tungsten halogen. Wavelength selection:Filters Wavelength range: 400 to 750 nm. Bandwidth:10 nm. Dynamic range: 0 to 3.0 OD. Resolution: 0.001 OD. Filter wheel capacity: 5 positions. OD accuracy:<1% at 2.0 OD OD linearity:<1% at 2.0 OD, <3% at 3.0 OD OD repeatability: <0.5% at 2.0 OD. Reading speed:96 wells: 30 seconds.</p> <p>B). Auto plate Washer. Model: Elx50, BIOTEK INSTRUMENTS INC., USA. General. Assays:ELISA. Cell-based assays. Shaking: Programmable in minutes and seconds up to 60 minutes Intensities - 1-5 (15-19 cycles/second). Soak Time: Programmable in minutes and seconds up to 60 minutes. Separation: Biomagnetic separation, Microplate Types: 96 well. Washing Manifold Types: 96-well washing: 8-tube (1x8) manifold. Washing Speed: <u>Solid bottom plates</u> 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds. Volume Range: 25 - 3,000 µL/well (configuration dependent) Selectable in 1 µL increments. Flow Rates:1 - 9. Wash Cycles: 1 - 10. Dispense Precision:≤3% CV Residual Volume: Solid bottom plates ≤2 µL/well <u>Filter bottom plates</u> Average increase weight of plate ≤1.2 g after dispensing 300 µL to 0.45 µm plate, filtration 30 seconds, low vacuum, blotted</p>	<p>Rs.1,165,320/- each.</p>
<p>A) Data Analysis Software Gen5™, BIOTEK INSTRUMENTS, INC., USA. Applications: Gen5, used with BioTek microplate readers, supports many microplate applications in Absorbance, Top and Bottom. Fluorescence, Flash and Glow Luminescence, Time-Resolved. Fluorescence and Fluorescence Polarization, including: Calcium Uptake. Nucleic Acid Quantitation. Protein Assays. Dual-Luciferase® Assays. Enzyme Kinetics. Live/Dead Assays. Cell Proliferation Studies. ELISA, FRET Assays, Endotoxin Analysis. GFP Assays, BRET, HTRF® <u>Minimum System Requirements:</u> • Microsoft® Windows® Vista™ (Business or Ultimate Editions); Windows® XP (SP2 or Professional Editions) or Windows 2000 (SP4 or Professional Editions), • Intel® Pentium® III-Class PC or compatible processor (500 MHz or higher), • 512 MB RAM or higher 2 GB Hard Drive space, • Designed for XGA Resolution at 1024 x 768, • CD-ROM drive, • Keyboard, • Mouse, Microsoft® Internet Explorer® v 5.0 or higher (for Online Help), Microsoft Excel® 2000 or later (for Quick Export and Power Export™ feature)</p>	<p>Rs.111,735/- each</p>
<p>B) Printer Epson To be used direct with Elx800.</p>	<p>Rs.52,650/- each</p>
<p>C) Computer System, Core i3 with 18.5" LCD, Standard Specification Local Arrangement</p>	<p>Rs.79,560/- each</p>

5	Single channel pipette 10-100µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable. With Calibration Certificate. Cat. No: 825.0100, Serial: Acura 825, SOCOREX, SWITZERLAND. Volume Range: 10 – 100µl.	Rs.32,175/- each

6	Single channel pipette 20-200µl adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable. Individually Calibrate, Fully Autoclaveable With Calibration Certificate. Cat. No: 825.0200, Serial: Acura 825. SOCOREX, SWITZERLAND. Volume Range: 20 – 200µl	Rs.32,175/- each

7	Single channel pipette 5-20µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate Cat. No: 825.0020, Serial: Acura 825 SOCOREX, SWITZERLAND. Volume Range: 2 – 20µl	Rs.32,175/- each.

8	Single channel pipette 5-50µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent Imported.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable, With Calibration Certificate, Cat. No: 825.0050, Serial: Acura 825, SOCOREX, Switzerland. Volume Range: 5 – 50µl	Rs.32,175/- each

9	Multi Channel (8 channel) pipette 10-100µl. adjustable (micro litre), autoclaveable Eppendorf/ Socorex/ Kartel or exact equivalent imported..
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Multi Pipettes 8-Channel , Cat No. 855.08.200, Serial: Acura manual 855, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 20 – 200µl, Division: 0.2µl	Rs.78,975/- each

10	Single channel pipette 100-300µl. adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable Individually Calibrate, Fully Autoclaveable, With Calibration Certificate Cat. No: 825.1000, Serial: Acura 825, SOCOREX, SWITZERLAND. <u>Specifications:</u> Volume Range: 100– 1000µl, Division: 1 µl	Rs.32,175/- each

11	Single channel pipette 0.5-10µl, adjustable volume, autoclaveable Eppendorf, Socorex, Kartel or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Micropipette Adjustable, Individually Calibrate, Fully Autoclaveable With Calibration Certificate, Cat. No: 825.0010, Serial: Acura 825, SOCOREX, Switzerland. <u>Specifications:</u> Volume Range: 0.5 – 10µl Division: 0.01µl	Rs.32,175/- each

12	Distillator glass 4-litre P/H (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 4 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Distillation Apparatus all glass Borosilicate Glass fitted with metal element 3 KW capacity 4 Litre per hour, conductivity 4µs/cm, PH 5.5 to 6.5 Model IM-50, Irmeco Germany.	Rs.145,000/- each

13	Trinocular Microscope image capturing digital camera with LCD display. Trinocular head: 45 degree inclined trinocular head, 360 degree rotatable for comfort viewing. Objectives: 4x,10x,40x,100x Eye piece:10x wide field antifungal treated, Magnification: 40x,100x,400x,1000x. Condenser: Abbe NA 1.25 (oil) with iris diaphragm. Illumination: Built in LED. Microscope colour video camera: CMOS C mount adapter, 10-12 mega pixel compatible with window 7 or 8 , AV & USB connector, Krusse, Leica, Nikon, Olympus Japan/ Germany/ UK/ USA or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Roghay Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Trinocular Microscope with Camera , Model H-600 with camera, Supplied with (1.Trinocular Head. 2.Eyepiece WF 10X. 3.PLAN ACHROMATIC LENS 4X. 4.PLAN ACHROMATIC LENS 10X. 5.PLAN ACHROMATIC LENS 40X. 6.PLAN ACHROMATIC LENS 100X. 7.Microscopy Camera) Mfr. HundWetzler, Germany.	Rs.412,000/- each.

14	Refrigerator 18cft. Specification: Wide body. Temperature control. Detached door gasket for easy cleanup and change. VC. Semi-automatic ice maker. Wide voltage fluctuation resistance. Handle and lock integration Dawlance, Weaves or exact equivalent with higher specification.
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Model 91996 Mono, Dawlance/ Waves/ Orient, As per tender specification.	Rs.90,000/-
15	Visicooler 4°C refrigerator upright temperature controlled. upright temperature: display 500 liter, carevell or exact equivalent.

Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Carevell	Rs.148,000/- each

16	Micro wave oven: Interior volume approx. 30 lit, Adjustable output stages, Digital display for time of day or count-down, 30-min. timer with acoustic signal, Removable glass rotary plate (Ø approx. 245 mm), Electrical supply 220-230 V, 50 Hz, Dawlance, Orient, LG, PEL, or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Homage 34 liter.	Rs.21,500/- each

17	Incubator. Bench top Horizontal, Capacity: 50-55 liters, Temp. Range: Ambient +5°C to 70°C, Accuracy: ± 0.2°C, Controller: Digital, Display: LCD, Material: Stainless steel, Shelves: 2 Teflon coated, adjustable position, Viewing Window: glass door safety devices, Overtime, over current protector, sensor error detector. Application: Micro organism culture, USA, UK, Germany, or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Remarks
Forced Convection Laboratory Incubator Microprocessor PID Controlled Dual Display Digital Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	Rs.220,000/- each

18	pH meter microbiology lab. Use. Desktop ph meter with ph and temp. Electrode, Range pH 0.00 to 14.00 pH (full scale), Temperature 0 to 60 °C or 32 to 140 °F, Resolution pH 0.01, Accuracy Temperature 0.1 °C or 0.1 °F, Combination waterproof pH tester / thermometer, Dual Level Display Shows pH & Temperature, Temperature in °C and °F, Percent Remaining Battery Indicator, Replaceable pH Electrode, Hanna, fisher, CarlRoth, Acculab, or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Remarks
pH Meter Bench Top, Model: Eutech pH 700 Make: EU-Tech Instruments.	Rs.118,500/- each

19	Electric Fan wall mounting iron body. 16", Pull cord system, wall bracket Fan, Millat or exact equivalent with higher specification.
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Royal 18" /Millat 16", As per tender specification.	Rs.4,800/- each

20	UV light wall mounting. 30-40 watt, 220-230V, Intensity 15u w/ cm2, wall mounting, with replaceable tubes & starters Philips or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
UV Light wall mounting 30-40 watt, 220-230V China	Rs.6,950/- each

21	Solar energy pannel system (solar panel 1500watts, Charge controller 63Ampere, Inverter 1267wattts , Battery 1293Ah) with installation.
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Specification of Solar Energy Panel system 1500 watts for Dry battery, Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Dry battery (AGM type):1400 ampere, Solar panel warranty:25years Battery:01 year, System warranty:01 year with free service, Existing system load back-up:6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system is made in china.	Rs.1,330,000/- each
Specification of Solar Energy Panel system 1500 watts for Gel battery. Solar panel:1500 watts, Solar charge controller:65 Ampere, Inverter:1500 watts, Gel battery (power safe /Narada):1400 ampere, Solar panel warranty:25 years, Battery:01 year, System warranty:01 year with free service, Existing system load back-up: 6 hours with 1500 watts, Including solar frame and battery rack with complete installation. Note : This complete system made in china.	Rs.1,330,000/- each

22	Stabilizer1000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Model:SF1000VA, warranty: one year, STABIMATIC UK.	7,200/- each

23	Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Stabilizer 3000volts Servo motor copper wire with timer. Stabmatic	Rs.19,000/- each

24	Stabilizer5000volts Servo motor copper wire with timer. Stabmatic UK or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Stabilizer 5000volts Servo motor copper wire with timer. Stabmatic	Rs.21,500/-

25	<p>Tabletop Refrigerated centrifuge, Eppendorf, Sigma, Thermo, or equivalent. Temp. Variable from -20 to +40 °C in 1 °C-increments, Max. speed (in microlitre rotor) 15 000 min⁻¹, adjustable to steps of 10 , Min. speed 500 min⁻¹, Operation time 1 to 99 min, continuous run, impulse key, Temperature range 20 to +40 °C , Rotors and accessories: 24 x 1.5/2.0 ml, 8 x 50 ml, 8 MT- plates and 4 x 50 ml , Power supply 220-240 V, 50/60 Hz , Automatic rotor recognition, Optional display of min-1 or x g upon entry of rotor radius, Simple rotor change, Window in lid Metal housing, Security: emergency unlocking device, motor overheating protections, unbalance switch-off, Operation manual Eppendorf, Sigma, Thermo, or exact equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
<p>CAT# MPW-352R REFRIGERATED HIGH SPEED CENTRIFUGE The MPW-352R model is a refrigerated, desktop laboratory centrifuge with Temperature range: -20°C ÷ +40°C. It find application in medical, biochemical, veterinary, industrial as well as other laboratories. The construction of the centrifuge is based on the broad experience of the MPW Med instruments company and its many years of cooperation with laboratories and medical institutions.</p> <p>TECHNICAL SPECIFICATIONS: Power supply: 230V, 60Hz Maximum capacity: 4x250 ml(1 L). Minimum speed: 100 min⁻¹ Maximum speed: 18000 min⁻¹. Maximum RCF: 30065xg Time range: 0 ÷ 99 hrs., 99 min, 59 sec; infinite, 1 sec interval Temperature range: -20°C ÷ +40°C. Safety: imbalance warning, lid locking during motor run, emergency lid lock release, motor thermal protection. ROTORS: 24X1.5/2 ml, 180003 RPM, 30,065 RCF 8x50 ml, 5,500 RPM, 4,227 RCF 2x3 MTP (Standard), 4,300 RPM. 2,397 RCF. FEATURES: With cooling, Start when preselected time is reached, Start when preselected temperature is reached, Initial cooling without/with centrifuging, cooling after centrifuging, precise temperature stabilization. Maintenance-free induction motor Modern software system. Large graphic LCD. 99 user programs 10 acceleration/ deceleration curves. Programming of multi-section acceleration/ deceleration curves. RPM/RCF adjustment. Centrifugal radius adjustment for samples (with automatic RCF correction). Effective centrifuging time calculation. Centrifuging time adjustment. Continuous operation mode HOLD. "SHORT" time operation mode. Changing parameters during centrifuging. Rotor identification. Automatic lid opening. Motorized lid lock. Centrifuging parameters recording - PC computer (USB). Menu language setting. Selected menu functions blocking, Password protection. Broad range of rotors and additional equipment, Memory of the last 10 working cycles. Manual adjustment of density of samples >1,2g/cm³ (with automatic maximum speed correction) Safety: Unbalance warning. Lid locking during rotor run. Emergency lid lock release. Motor thermal protection. M/s MPW-POLAND-Made in Europe</p>	<p>Rs.1,848,000/- each</p>

26	<p>Real Time PCR, Thermal Cycling System : BioRad, Eppendorf, MJ research, Stratagene or equivalent. 96-well block, Optical System CCD camera with halogen lamp excitation; OR LED, five-excitation and five-emission filters: Calibrated Dyes at Installation FAM™/SYBR® Green, VIC™/JOETM, NED™ /TAMRATM /Cy3®, ROXTM /Texas Red®, and Cy5®, Passive Reference Dyes ROX dye or any calibrated dye. Use of a passive reference dye is optional. Reaction Volumes 5-30µL 20-100µL, Sample Format Fast 96-well plates, optimized for 10 µl reactions, Peak Block Heating Rate 5.5°C 2.5°C, Temperature Range 4°C - 100°C 4°C - 100°C, Temperature Accuracy +/- 0.25°C of set point/display temperature, measured at 3 minutes after clock start, Temperature Uniformity +/- 0.50°C, 30 seconds after clock start, Software Specifications, Applications Comparative Ct, Standard Curve, Relative Standard, Curve, Allelic Discrimination, Plus/Minus, Dye Discrimination Multicomponenting algorithm, Multiplate Data Comparison Compare an unlimited number plates of gene expression assays .With original Company literature from principal company clearly verifying all specifications and user list and computer system with required software compatible with window 7 or 8. Warranty : One year from the date of installation and training Applied Biosystems, BioRad, Eppendorf, MJ research, Stratagene or exact equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks																		
<p>CAT# TCR0096. PIKOREAL REAL-TIME PCR SYSTEM(96-WELL) FEATURES: PikoReal® Real Time System is light, quite and smallest footprint. Compatible with standard multichannel pipettes, reagent dispensers and automated liquid handling systems. Extremely low energy consumption, durable design and suitable field application. Precise temperature control. Five optical channels facilitate multiplexing. Stand alone or PC control. Reduced plastic and reagent consumption. TECHNICAL SPECIFICATIONS: THERMAL BLOCKS. Block Formats: 96 Wells. Sample Volume: 5 - 20µl Consumables: 96 Wells Piko PCR Plates. Max Heating Rate:>5°C / Sec. Max Cooling Rate: 4.5°C / Sec. Temperature Range: 4-99.9°C. Temperature Accuracy: ±0.2°C. Temperature Uniformity: ±0.3°C at 95°C. HEATED LID. Temperature Range: 30 - 110 °C. Control: Automatic Temperature and Pressure Setting. OPTICS: Excitation:5LEDs. Excitation Range: 475 – 640 nm. Detection: CCD. Detection Range: 520 – 740 nm. DETECTION CHANNELS</p> <table border="0"> <tr> <td>Excitation(nm)</td> <td>Emission(nm)</td> <td>Pre-Calibrated Dyes</td> </tr> <tr> <td>475-500</td> <td>520-550</td> <td>FAM, SYBR Green</td> </tr> <tr> <td>515-535</td> <td>557-590</td> <td>HEX, JOE, Yakima Yellow</td> </tr> <tr> <td>570-590</td> <td>615-650</td> <td>ROX, Texas Red</td> </tr> <tr> <td>600-640</td> <td>666-740</td> <td>CY 5</td> </tr> <tr> <td>475-500</td> <td>520-590</td> <td>SYBR Green for HRM, Single Plex FAM, SYBR Green</td> </tr> </table> <p>Multiplex: 475 – 640 nm, HRM: Yes, Dynamic Range: 10 order of magnitude. Scan time for 4 Multiplexing Channels: <10 sec SOFTWARE. Analysis Modes: Absolute quantification, Relative Quantification, Melt Curve Analysis, Allelic Discrimination. SYSTEM. Operating Systems: Windows XP, Windows 7, Communication: Ethernet, Up to 10 instruments can be operated from a single PC. Power Usage: 200W Maximum. Dimensions (W x D x H): 300 x 230 x 310 mm. One year warranty and original company literature and computer system with required software M/s THERMO SCIENTIFIC</p>	Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes	475-500	520-550	FAM, SYBR Green	515-535	557-590	HEX, JOE, Yakima Yellow	570-590	615-650	ROX, Texas Red	600-640	666-740	CY 5	475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green	Rs.4,490,000/- each
Excitation(nm)	Emission(nm)	Pre-Calibrated Dyes																	
475-500	520-550	FAM, SYBR Green																	
515-535	557-590	HEX, JOE, Yakima Yellow																	
570-590	615-650	ROX, Texas Red																	
600-640	666-740	CY 5																	
475-500	520-590	SYBR Green for HRM, Single Plex FAM, SYBR Green																	

27	2KVA online UPS with Two hour back-up Branded. uninterrupted power supply capacity 2000VA/1400W, transfer time from invert to bypass zero in built batteries 8x12V 7Ah, Stabimatic (ONL-2000B) or exact equivalent. branded & imported.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
2KVA online UPS with Two hour back-up, branded & imported.	Rs.99,500/- each

28	Ultra low upright freezer -86°C, Sanyo, Revco, Thermo or equivalent. Adjustable temperature range from -10°C~ -86°C with an increment of 1°C, Interior Volume 18-20cu.ft, Microprocessor temperature control, Digital temperature display, Malfunction alarm includes audible and flashing alarms for high temperature, low temperature, incorrect voltage setting, sensor failure ,condenser efficiency defect, high ambient temperature, and power failure, Adjustable high and low temperature alarm set points, Multiple shelves for storage of various sizes for samples, Safety lock to prevent unauthorized access, Sanyo, Revco, Thermo or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# AV050M, ULTRA LOW TEMPERATURE UPRIGHT FREEZERS -86°C. Kaltis® ultra low temperature (ULT), -86°C laboratory freezers are exceptionally energy efficient, quiet running and reliable, that combine the highest reliability and superior performance with cost-effective operation and innovative features. These ultra-low temperature freezers safeguard your precious samples with advanced technology platforms, maximum temperature recovery, microprocessor controls and high-quality construction. TECHNICALS SPECIFICATIONS: Capacity (L): 499 Lit (17.6 Cu. Ft). Voltage (V): 230, Frequency Hz: 50~60. Amps: 7.5, Interior: 60x64.5x129 Exterior: 85x91x196, M/s KALTIS-USA.	Rs.1,960,000/- each.

29	<p>TissueLyser, Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Qiagen, Ideka Rika japan, or equivalent. Bead Mill based tissue lyser for low –to medium throughput samples disruption, Speed range of 15 to 50 HZ (900-3000 oscillations/ minutes). Runtime of 1 second to 1 hours 59 minutes, Display and control panel for speed and time, 220-240 V, 50/60 Hz, Accessories, Stainless steel beads –5 mm (200nos), Stainless steel Baeds – 7 mm (200nos), Beads acid- washed , 150–600µm (20grms) Single Bead dispenser, 5mm, Capacity to hold ~100 beads single bead dispenser, 7 mm capacity to hold ~50 bread suitable 2 ml micro centrifuges tubes (1000nos) TissueLyser Adapter Set 2 x 24 (2 sets of adapter plates and 2 racks for use with 2 ml micro centrifuge tubes on the TissueLyser II), TissueLyser Adapter Set 2 x 96 (2 sets of adapter plates for use with Collection Microtubes (racked) on the TissueLyser II), Qiagen, Ideka Rika Japan, or exact equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S Roghay Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Tissue Lyser, Model Tissue Lyser LT, Supplied with 1.Tissue LyserLT. 2.Tissue Lyser adapter, 12 tube. 3.Stainless Steel Bead, 5mm. 4.Sample tube RB 2ml(1000). 5.Tissue Lyser Single Bead Dispenser. Mfr. Qaigen, Switzerland.	Rs.4,649,000/- each

30	<p>Microplate Shaker, Microplate orbital shaker speed range:200-1500 rpm (digital) Speed increment:10rpm plate holding: 4 plates, Operating temp:4-70°C, Fisher, Corning or exact equivalent imported.</p>
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Remarks
Microplate Shaker, Model: 6781-4, Make: Corning, Key features: The Corning LSE Digital Microplate Shaker features digital control of shaking speed and run time. A single control knob is used to set parameters, and values are shown on a large 3-digit display. A sturdy base encloses the motor for quiet, vibration-free operation. The included stainless steel platform accommodates up to 4 microplates (standard or deep well) and the shaker is safe for use in temperature controlled environments from 4 to 65°C. Large capacity - process up to 4 microplates 3 mm orbit for resuspending, homogenizing or vortexing Large digital display with single-knob control Suitable for cold room or incubator use	Rs.229,030/- each

31	<p>Minipore Ultrapure Water purifier system, Applications: Up to 70L per day. Pyrogens (Endotoxins), EU/mL: < 0.001 Water Delivery, L/min: At E-POD: up to 2.0, At Q-POD: 0.05–2.0 Product Water Resistivity, MΩ•cm (@ 25 °C): Pure Water: > 5, Ultrapure Water: 18.2 , Feed Water Nature: Tap water, Water used for PCR or HPLC, Milli Q, Aurora Instruments, RSD or exact equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
<p>CAT# B30-BIO, WATER PURIFICATION SYSTEM Adrona water purification systems provide ultrapure and pure water for laboratory needs. Quality of water meets requirements for Grade I water of ISO 3696 standard and corresponding ASTM and CLSI standards. FEATURES: Premium quality water Reliable operation. Low running costs. Easy installation and maintenance. Convenient user interface. Color graphic display Easily readable indication of water quality. TOC monitor Volumetric dispense. Status indication with intuitive color pattern Validation possibility. B30 systems produce purified water directly from tap water 25 L storage tank with integrated Grade II dispense pump APPLICATIONS: Reagent Preparation Ion Chromatography, Plasma Mass-spectrometry (ICP-MS), Flame AAS, Plasma spectrometry (ICP-OES), High performance Liquid Chromatography (HPLC) Gas chromatography , Total organic carbon (TOC) measurements Flow cytometry, Cell culture, Molecular Biology APPLICATIONS: Water resistivity: 18.2 MΩxcm Water conductivity: 0.055 μS/cm Total organic carbon (TOC) level: <2 ppb. RNase: <0.01 ng/mL, DNase: <4 pg/μL. Bacteria: <1 CFU/mL. Endotoxin: <0.001 EU/mL. Particles >0.22 μm: <1/mL. Nominal flow, pure water (to storage tank): 10 L/h. Nominal dispense flow, ultrapure water: 2 L/min. Nominal dispense flow, pure water: 4 L/min. Deionization module life: 1 m³. Dimension (WxDxH), cm: 35x54x60. Water Storage tank: 25 L, Feed water conductivity: <900 μS/cm, M/s ADRONA-LATVIA MADE IN EUROPE.</p>	<p>Rs.1,085,000/- each.</p>

32	<p>Digital bench top timer, Time count down from 24 hour to 1 second in one second increments. For bench use, can display countdown, stop watch or time of Day. Alkaline Battery Fisher, Carl Roth or exact equivalent imported.</p>
33	<p>UV protective Goggles, Fisher, Roth or equivalent. UV protective eye wear light weight, Unilens Style adjustable temple length, duo flex confort cushion antifog, antiscratch/ anti UV coating, meet ANSIZ87.1-2010 and CAS Z94.3 eye ware requirement, Fisher, Roth, USA, UK Germany or exact equivalent imported.</p>
34	<p>Digital Room Thermometer, Measuring temperature range:-18-+72°C Clock, , Fisher, Roth or equivalent. Wall mounting Digital thermo hygrometer to monitor relative humidity and temperature in laboratories and offices. Digital thermometer selectable to °C or °F range: -18-+72°C. Relative humidity range: 20-100%RH, 3 digit LED sensor, 1.5V AA battery. Oakton, USA, UK or exact equivalent</p>

Procurement Committee approved the items for purchase from local market on quotation.

35	Deionizer, battery operated with disposable cartridges. Wall mounting, 90 liters/hour high purity water, built in water quality meter. Disposable cartridge Battery: 9V, ELGA or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Deionizer single cartridge, wall mounted to deionize water with built in conductivity meter, Output 45 Lit/hour, pure water quality 0.1 – 20 us/cm depends on water quality, operated on 220 Volts, Model DI 425 TKA Made in Germany.	Rs.188,000/- each

36	Distillatory glass 5-litre/h (single distillatory), Horizontal, borosilicate glass boiler, 3KW chromium plated heater, 5 liter/hr single distillation, UK/USA/Germany or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
4 liter Model favorite Europe.	Rs.94,000/- each

37	Pipetting aid, auto pipette filler (5-10ml), battery operated. Color, white, Battery type: Lithium ion Dispensing speed:8, Filter type 0.45 micron standard. Universal chargeable stand, wall mounting holder Nose piece holder: Autoclavable Silicone Rubber for use with graduated and volumetric glass and plastic serological pipettes. Thermo, Carl Roth, GMB or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Remarks
Electronic Pipetting Control Device, Pipetting Aid/ Controller for 1 To 100ML Pipettes (Cat # 4091), Make: Corning.	Rs.94,770/- each

38	Laminar Flow cabinet Horizontal 5'. Table top Horizontal Laminar Air flow workstation. 5ft (1.5m) External dimension: (1645x797x1105) WxDxH (mm), Internal dimension: (1490x625x575) WxDxH (mm). One dimensional air flow, constant velocity of 90fpm. Hepex Zero Leak Airflow system, Florescent lighting, protective grill, glass disposable prefilter Germicidal UV light, Vinyl curtain- front closure for UV light, stainless steel 18guage body and workzone, side walls; UV absorbing tempered glass 5mm 3years warranty, NuAire, Esco, USA, UK, Germany or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Remarks
AirStream Horizontal Laminar Flow Clean Bench, 5ft. with support stand, Model AHC-5D1/AHC-6D1, 5ft./6ft. Make: ESCO, Singapore, Key Features: Sentinel™ Microprocessor Control System. Soft touch controls for blower, light, outlet and UV are easy to clean. ULPA filters (per IEST-RP-CC-001.3) tested to a typical efficiency of >99.999% for 0.1 to 0.3 micron particles are superior to HEPA filters. ULPA filters last as long as Conventional HEPA filters and have similar replacement costs. The backward curved wheel with external rotor motor delivers class-leading energy efficiency for lower operating costs. An additional disposable pre-filter traps large particles in the inflow air prior to reaching the main filter, protecting against damage and prolonging filter life. All Esco products are manufactured for the most demanding laboratory applications. All components are designed for maximum chemical resistance and enhanced durability for a long service life. The main body of the clean bench is constructed of industrial-grade electrogalvanized steel. One piece formed stainless steel work surface with a curved front edge is designed for maximum operator comfort. Built-in warm white, electronically ballasted, 5000k lighting provides excellent illumination of the work zone and reduces operator fatigue. The reliable lighting system is zero-flicker and instant start. Esco Laminar Flow Clean Benches have been tested for cross-contamination and product protection using microbiological test methods specified in EN12469. Each clean bench is individually factory tested for safety and performance in accordance with international standards. All electrical components are UL listed or UL recognized, ensuring superior electrical safety for the operator. Esco ISOCIDE antimicrobial coating on all painted surfaces.	Rs.894,650/- each

39	Furniture and Fixture. Cupboard/Drawer deodar frame 4'.9"x2'.3", lasani board 4 drawer high quality lock & handle
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Lasani wood, Best quality, Durable No moist, dry, Deemak Free wood, Rohira tree, smooth.	Rs.41,000/- per unit.

40	Cupboard/Drawer 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality lock and handle.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Low weight, high strength excellent corrosion resistance, good thermal superior, malleability, different colors super fine quality best quality lock and handle.	Rs.39,000/- per unit

2. Cost of Other Store; Chemicals, Biologics, Glass/ Plastic Ware & Instruments, Sample Collection Material, Accessories, Research Assistance Material First aid material, Trial Treatment Medicine and Feeding for Experimental Animals.

1.	PPR competitive ELISA Ab Diagnostic reagent kit and plates for multi species 04 plates (484 samples) ID Vet or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
PPR competitive ELISA Ab Diagnostic reagent kit and plates for 04 plates (384reactions) ID screen ID Vet France Cat No.PPRC,4P.	Rs.220,000/- each

2.	CCPP ELISA antibody detection reagent kit with ELISA plates for 100 serum of caprine/ovine, AHVLA or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
CCPP ELISA antibody detecton reagent kit with ELISA plates for 100 serum of caprine/ovine Packing 1 kit(for 100 serum, Manufacturer AHVLA scientific UK	Rs.411,600/- each

3.	Brucella Rose Bengal stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Brucella Rose Bengal stained Antigen suspension, 10ml Lilli Test RBT Antigen Lillidale UK Cat No.V2001.	Rs.8,500/- each

4.	Brucella mellitensis stained antigen suspension, 10ml, Lillidale or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Brucella mellitensis antigen direct test , Make USA, Packing 5ml.	Rs.7,900/-

5.	Brucella AB ELISA kit with plates (Bovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
ID Screen Brucellosis Serum Indirect Multispecies, 4 plates, 384 reaction ID Vet France Cat No.BRUS-MS-4P.	Rs.185,000/-

6.	Brucella AB ELISA kit with plates (Ovine) 4 plates (384 reaction) Idexx USA, UK or exact equivalent Imported.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Brucella Ab I-ELISA o/c, Article No. 10-8200-02, Format: Strips, Plates:2, Tests:192, Samples:184, Made by Sweden, Svanova.	Rs.85,000/- each kit (Rs.462/each sample)

7.	Brucella milk ring test antigen vial 100ml (MRI),USA, France, UK or exact equivalent Imported.
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Procurement Committee approved the purchase of this tendered item from VRI Lahore.

8.	Brucella milk ELISA reagent kit with plates. Brucellosis milk indirect ELISA, Diagnostic reagents and plates for B. abortus in Bovine milk 4 plates (384 reaction) Idexx USA, UK, France or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
ID Screen Brucellosis Milk Indirect, 4 plates, 384 reaction ID Vet France Cat No.BRUMILK-4P .	Rs.120,000/- each kit

9.	Tuberculosis test antigen(Tuberculin Avian & Mammalian) 5ml vial imported, PPD (PPD A&B) Tuberculin intra dermal test for Bovine tuberculosis 500 reaction UK, USA or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
In vitro cell activation pack for 5000 reactions containing avian and bovine tuberculin PPD and mitogen (pokeweed), Mitogen is used as a positive activation control ID Vet France Cat No.PPDPACK, One Pack.	Rs.270,000/- each

10.	Tuberculosis antibody test kit antibody test. BTB Ab ELISA diagnostic reagent kit with Microplate, 480 Wells/kit, UK or exact equivalent.
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Procurement Committee approved the items for purchase from local market on quotation.

11.	CMT (California Mastitis Test) kit with reagents liter bottle, ready to use liquid, Bovi-Vet Denmark or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
CMT (california Mastitis Test) kit with reagents litre bottle, Cat No.497101 CosAgri UK.	Rs.5,800/- each

12.	Penside Rabies Rapid diagnostic device for detection of Rabies antigen in ruminant saliva /tissue fluid of brain 10test/kit , UK or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Rapid Rabies Ag Test kit 20 tests/kit, Model: VR-1005 Packing Kit (10 tests/kit) Manufacturer Lillidale Diagnostics-UK	Rs.117,600/- each

13.	Zeihl-Neelson Stain Kit. Containing one 250ml bottle each of TB Carbofuschin, TB Decolourizer solution and TB Methylene Blue BD Difco, Merck or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Z.N Stain Kit. Bottle Make Wellcosol, Packing 3x500ml	Rs.6,080/-

14.	Sheep pox/ Goat Pox antigen ELISA diagnostic reagent kit with plates.
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Procurement Committee approved the technical specification and rate of M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
sheep pox/Goat pox antigen EUSA Research kit with plates 96 Test Cat # BYS126616B, TRANS UAE,	Rs.199,000/- each

15.	Camel pox antigen ELISA diagnostic reagent kit with plates.
16.	Buffaloe/Cow Pox

Procurement Committee approved the items for purchase from local market on quotation.

17.	CATT/ T.evansi Kit with accessories, CATT/Tev T250: (Institute of Tropical Medicine, Belgium) or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
CATT/T evansi kit with accessories, CATT/TEV T250 (Institute of Tropical Medicine Belgium.	Rs.105,000/-

18.	Microscope glass slide with frosted end pack of 72Nos. Germany or exact equivalent imported
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China Pkt of 72Nos.	Rs.240/- box

19.	Disposable hand gloves. Pre examination disposable gloves, textured embossed medium size 100 Nos./packing weighing Approx 155g/pack.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 100 Nos./Pkt.	Rs.66/- per Pkt.

20.	Latex surgical gloves disposable. Pre examination powder, natural high quality latex, surgical, milky white hand gloves medium size 12pair gloves/pack.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Latex surgical gloves disposable. medium size, Packing 1 Box (100nos) China	Rs.1,029/- box (20.58 per pair)

21.	Autoclaveable bijous 5ml with aluminum screw cap white glass Imported.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Autoclaveable bijous 15 ml with aluminum screw cap Glassco	Rs.75/- each

22.	Autoclaveable glass bottles wide mouth, screw cap 50-80ml for bacteriology/ Parasitology/Pathology specimen.
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Procurement Committee approved the items for purchase from local market on quotation.

23.	Ice Pack, cold pack for refrigerated shipment and storage at 0oC, 150micro nylon pouch, multi use PCM pack 4.3"x5.7" 200g each.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Imported as per specification, durable, light weight, easy	Rs.1,900/- each

24.	Gel Refrigerant pack, 240x150mm, 500g each.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Gel Refrigerant Pack 240x 50mm 500g each	Rs.878/- each

25.	Sample bag enclosable grove 6"x9" Each of 100 Nos. /Pack.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Fine, durable, transparent chemical free, fine plastic, water resistant 100Nos./pack	Rs.500/- Pack of 100 Nos.

26.	Sample bag enclosable grove 10"x12" Each of 100 Nos. /Pack.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Fine, durable, transparent, chemical free, fine plastic.	Rs.700/- Pack of 100 Nos.

27.	Disposable Apron. Disposable PE Apron LD Polyethylene standard width 9cm length 107cm, color Blue & green 20 micron thick pack of 100 Nos.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China.	Rs.1,200/- per 100pcs.

28.	Face Mask surgical disposable, without glass fibers, high filtration capacity Pak of 50Pcs, Imported or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 50pcs/pack.	Rs.134/- per Pkt.

29.	Indelible Marker, Laboratory permanent marker, for all surfaces starpe fine pointer, Xylen, Ethnol and water resistant, cryogenic markers.
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Procurement Committee approved the items for purchase from local market on quotation.

30.	Anticoagulant tubes with EDTA 4ml 100 pieces/box.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 3ml.	Rs.9.50/- each

31.	Blood/ serum collection vaccum tubes 5ml 100 pieces/box.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 4.5ml	Rs.11/- each

32.	Serum vial 2ml with safe lock and graduation scale Eppendorf or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 500 Nos./pkt	Rs.840/- per Pkt.

33.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) large size.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Gum boot (Rubber shoes) large size Thailand	Rs.985/- each pair

34.	Gum boot (Rubber shoes). Gum boot (Rubber shoes) medium size.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Gum boot (Rubber shoes) medium size Thailand	Rs.985/- each pair

35.	Dangri (Khaki/ Blue over all). Dangri (cotton/zean cloth) standard size.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Dangri (Khaki / Blue over all) dangri cotton standard size Local,	Rs.1,995/- each

36.	Methyl Alcohol, Methanol EP Lab. grade. Acetone free 2.5 liter, Merck, Scharlau or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Methanol, analytical grade, Make Scharlau, Spain, Packing 2.5Lit	Rs.950/-

37.	Parafilm (Laboratory use) 14"x125ft (roll).
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
USA 4"x125ft.	Rs.4,370/- P.Roll.

38.	Sterilized swab with transport medium for bacteriological samples, collection and transportation.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China.	Rs.11/- each

39.	Thermometer for Laboratory use. Thermometer digital refrigerator/Freezer max/min reading -50°C + 70°C accuracy ± 1°C with probe. Fisher, Carl Roth, Thomas or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
Thermometer for lab use digital(-50 to 300c) 4Nos, HTC2	Rs.14,500/-

40.	Glycerol Absolute lab. grade 2½ liter bottle.
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Procurement Committee approved the technical specification and rate of M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
Qty/Pack size 2.5 liter, BDH/ Sigma	Rs.1,900/-

41.	Phosphate buffered saline tabs Oxide, Sigma or exact equivalent imported.
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Procurement Committee approved the technical specification and rate of M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
PHOSPHATE BUFFERED SALINE TABLETS DUL. A, Make Oxoid,UK, Packing 100Tab	Rs.7,425/- Packing 100Tab

42.	Sodium chloride Lab. grade P. kg.
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Remarks
Sodium Chloride Lab Grade kg RDH	Rs.1,200/- per Kg.

43.	Blood collection needle 21G. Blood collection Needles single use double sided stainless steel canulas with a silicone coating. Sterilized, non-pyrogenic 21Gx1½" thin wall 100 needles/box, BD or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Packing Box(100 needle/Box) Manufacturer CDRICH China	Rs.2,646/- box

44.	Tube holder for single use blood collection needle, standard size, 50 Nos./Box, BD or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Packing 1 Box(50nos/box) Manufacturer CDRICH China	Rs.4,410/- box

45.	Disposable syringe 10ml pack of 100. Disposable syringes. 10cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Procurement Committee approved the technical specification and rate of M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Master China Box of 100Nos.	Rs.1210/-

46.	Disposable syringes. 5cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Procurement Committee approved the technical specification and rate of M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Master China box of 100nos.	Rs.726/-

47.	Disposable syringes. 1cc, non toxic pyrogen free, Pak of 100 Nos. imported for laboratory use.
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Procurement Committee approved the technical specification and rate of M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Master China box of 100nos.	Rs.693/-

48.	Cotton roll absorbent cotton 400gm P. Roll Lab. Grade fine quality, National or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
400gram National.	Rs.306/- per roll

49.	PE Disposable shoe cover, Blue, water resistant medium size HDPE, CPE material, 1.2-4g/pcs double elastic.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China.	Rs.260/- per Kg

50.	Universal Bottle Aluminium screw cap 28ml white glass autoclaveable.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China 28ml	Rs.77/- each

51.	Deep Freezer 250liters (9cfu), white colour, chest freezer, Dawlance, Waves or exact equivalent.
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Procurement Committee approved the items for purchase from local market on quotation.

52.	Deep Freezer -10°C to -40°C upright, 260 liter, white/ off white with drawers/ chamber, Haier or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S S.A. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Model: DW-FL90/270 Manufacturer Zhongke Meiling Cryogenics Ltd	Rs.882,000/- each

53.	Serum transportation box 100 places thermo cool material with covering lid.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Remarks
Serum Transportation Box Thermo cool material with covering lid With CVDL Mark With inner aluminum division.	Rs.339,300/- 100 box

54.	Surgical scalpel stainless steel No.4 scalpel.
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Procurement Committee approved the technical specification and rate of M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per tender specification (12Nos. in Pkt).	Rs.720/-

55.	Surgical blade No.22.
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Procurement Committee approved the technical specification and rate of M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China. Pkt of 100 Nos.	Rs.700/- per 100 Nos. (Rs.7/each)

56.	CMT tray for milk testing. CMT Test Peddle. Four compartment blue plastic peddle with slightly doomed cup-bottom and pump dispenser bottle for reagent. Bovi-Vet Denmark or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Cyber Pakistan Business, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
CMT kit Comprising 1 liter liquid segmented test paddle, 2ml pipette Cat No.497095, Coxagri UK.	Rs.4,200/-

57.	Tagging machine medium (small ruminants) with 1000 aluminum tags
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Durable long lasting, fine qualify with 1000 aluminum tags.	Rs.58,000/-

58.	Hand held pH/EC and TDS tester 2-16pH, 0-20ms/cubic cm, range 0-10,000ppm Hanna, Thermo, Genway or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
Ph Hand Held pen type meter 0-16ph Qty/Pack size 1Nos Hannah/ezydo	Rs.6,500/-
TDS Hand Held pen type meter 0-10000pp Qty/Pack size 1 Nos. Hannah/ezydo	Rs.6,500/-

59.	First aid box. First aid box All purpose, soft sided kit contents: Bandage, injury treatment, Tropical antiseptic, Medicine, Instruments/ Misc: scissors, Tweezers, Thermometer, Safety pins, Vinyl gloves, Cotton tipped applicators (250-300pieces).
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Procurement Committee approved the technical specification and rate M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
First Aid Box(according to required spec), Qty/Pack size 6 complete loaded box, Premier	Rs.4,500/-

60.	pH electrode. pH electrode. Glass combination, pH range 0-14, temp. range 0-60°C active dimension 120x12mm outer junction ceramic outer electrolyte liquid
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
BNC USA.	Rs.11,000/- each

61.	Gas Room heater, Portable, heat level 1.5-4.2kw, 3 ceramic boards Adjustable thermostat, Metal material free standing for laboratory room.
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Procurement Committee approved the items for purchase from local market on quotation.

62.	Pestle and mortar, porcelain, white, Mixing/ grinding Bowl set medium (10cm diameter)
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
China.	Rs.240/- each

63.	Forcep stainless steel. Tissue forceps 130mm straight.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
High quality material, fine and best design. Pkt of 12 Nos.	Rs.1,800/- Pkt (Rs.150/each)

64.	Tissue forceps 130mm curved stainless steel.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
High quality material. Fine and best design to carry easy Pkt of 12 Nos.	Rs.1,900/- Pkt (Rs.158/each)

65.	Dressing scissor straight 125mm blunt point.
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Superiors.	Rs.170/- each

66.	Dressing scissor straight blunt/one pointed 125mm.
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Superiors.	Rs.170/- each

67.	Reagent Basin 60ml trough reservoir white poly propylene.
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Procurement Committee approved the items for purchase from local market on quotation.

68.	Green Nucleic acid stain for DNA staining, 5x1ml Promega, Fermentas or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# K0221 Maxima SYBR Green/ROX qPCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200x25µl	Rs.39,500/-

69.	Ethidium bromide, Molecular biology grade, 1gram Sigma, Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Cat # 43109 Merck (Molecular biology grade)	Rs.9,700/- per 1gm

70.	Agrose, Molecular biology grade, 100grams Sigma, Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# R9012LE HyAgarose LE Agarose, Multi-purpose, Molecular Biology Grade M/s ACT Gene USA Qty 100g	Rs.13,000/- per 100g

71.	Tris, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Cat # 648311 Merck (Molecular biology grade)	Rs.19,700/- P Kg.

72.	Tris Hcl, Molecularbiology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# T858 Tris HCl, Molecular Biology Grade M/s Phyto Tech. USA Qty 01kg	Rs.22,000/- P.Kg.

73.	Green Master Mix (2X), High quality, 100reaction Promega, or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# K1081 DreamTaq Green PCR Master Mix (2X) M/s Thermo Scientific (Fermentas) Qty 200react	Rs.20,500/- 200react

74.	DNA Laddar, 100bp range 100-3000, 1 vial Promega, or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# SM0321 GeneRuler 100bp Plus DNA Ladder,ready-to-use (100-3000bp) for 100lanes M/s Thermo Scientific (Fermentas), Qty 01vail	Rs.10,900/- Qty 01vail

75.	DNTPs, High quality, 1ml Promega, or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# R0241 dNTP Mix, M/s Thermo Scientific (Fermentas) Qty 01ml	Rs.10,900/-

76.	Nuclease free water, High quality, 1000ml Promega, or exact equivalent
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Nuclease Free Water, High Quality Make Hyclone, Packing 1000ml	Rs.6,075/- 1000ml

77.	Acetic Acid, Molecular biology grade, Sigma, 2.5 liter Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Merck Acetic Acid, Molecular Biology Grade M/s Merck Qty 2.5L	Rs.9,000/- each bottle.

78.	EDTA, Molecular biology grade, 1Kg Sigma, Merck, Scharlau or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Cat # 4005 Merck (Molecular biology grade) / Sigma..	Rs.11,000 P.Kg.

79.	Boric acid, Molecular biology grade, Sigma, 1Kg Merck, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
RDH Boric Acid, Molecular Biology Grade Qty 01kg	Rs.8,000/-

80.	DNA Extraction Kit, Column base, high yeild, high purity. For Blood, Tissue, Culture media, Bacteria. 50 reaction/kit, Qiagen, Invitrogen or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# K0721 GeneJET™ Genomic DNA Purification Kit for Blood, Tissue, Bacteria, spin column base M/s Thermo Scientific (Fermentas) Qty 50prep	Rs.28,000/- per kit

81.	Trizol reagent, For RNA, DNA and protein extraction, 200ml, Invitrogen or exact equivalent
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
TR 118 TRI Reagent for RNA isolation for 200-400 applications M/s 'MRC' USA Qty 200ml	Rs.59,000/- 200ml

82.	Primer Babesia Reverse & Forward
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer Babesia Forward & Reverse M/s Gene Link USA	Rs.80/- base

83.	Primer Theileria Reverse & Forward.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer Theileria Forward & Reverse M/s Gene Link USA	Rs.80/- base

84.	Primer P.muttocida Reverse, Forward, Universal and specific A,B,C.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer P.muttocida Forward & Reverse M/s Gene Link USA.	Rs.80/- base

85.	Primer contagious caprine Pleunopneumonia (CCPP), Reverse and Forward.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer CCPP Forward & Reverse M/s Gene Link USA	Rs.80/- base

86.	Primer Clostridium Perfergens (Entertoxaemia) Reverse and Forward.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer Clostridium Perfergens Forward & Reverse M/s Gene Link USA	Rs.80/- base

87.	Primer camel pox Reverse and Forward.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Primer Camel pox Forward & Reverse M/s Gene Link USA	Rs.80/- base

88.	Paraffin Wax Scharlau, Leica or equivalent 5kg or minimum packing.
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Procurement Committee approved the technical specification and rate M/S AL-Beruni Scientific Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Merck.	Rs.7,700/- P.2.5 Kg.

89.	Thin wall PCR tubes 0.2 ml, Thin-wall flat cap PCR tubes 0.2ml .pre-sterilized, Ultra-thin and consistent wall thickness. White transparent Color, DNA and RNA free, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
Cat # 60-0082 0.2ml flat cap PCR Tubes, DNA, RNA free, Pre sterile transparent 1000/bag M/S BioLogix USA	Rs.5,500/-

90.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.2mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
(R-96-PCR-FST)Make Corning-Axygen Packing Each	Rs.870/-

91.	PCR tube racks, 96-well racks with lid in different color for the storage and handling of 0.5mL PCR tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
PCR Tube rack, 96 well racks with lid in different color for the storage and handling of 0.2ml, PCR tubes, Eppendorf (R-96-PCR-FST) (R-96-PCR-FST) Make Corning-Axygen, Packing Each	Rs.870/-

92.	Eppendorf tube racks, Racks with lid in different color for the storage and handling of 1.5ml eppendorf tubes, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
Ependrof tube rack 60 place for 1.5ml/0.2ml, pack of 12 racks, AHN Germany	Rs.9,500/-

93.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# FT0010-R-NS 10µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-

94.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# FT0100-R-NS 100µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-

95.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 200ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# FT0200-R-NS 200µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-

96.	Micropipette Tips with filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul, Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# FT1000-R-NS 1000µl Filtered Universal Pipette Tips, Racked, Pre-sterilized, 100tips/box M/s GEBio USA Qty 01box	Rs.1,200/-

97.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 10ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# 20-0010 1-10µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.90/each

98.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 100ul ,Eppendorf, Sigma, Axygen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Size (1-100ul) (TE-204-Y-R-S) (Sterilized), Make Corning-Axygen, Packing 96 Tips	Rs.815/- (Rs.8.48/each)

99.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size:200ul , Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# 20-0200 1-200µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.90/each)

100.	Micropipette Tips without filter, DNase/RNase free, non pyrogens, Sterile and autoclaveable, High precision mold, PCR grade material, size: 500ul ,Eppendorf, Sigma, Axgen or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
CAT# 20-1000 200-1000µl Tips, 1000/bag M/s Biologix USA Qty 01bag	Rs.2,900/- (Rs.2.9/- each)

101.	4-way flipper rack, Plastic material, four way tube holder Holds thirty-two 0.5ml, thirty-two 1.5ml, twelve 15ml or four 50ml tubes, each on a different side, CLP, Corning, Roth, or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Remarks
4-way flipper rack, four 50ml, twelve 15ml, twenty four 1.5ml and 0.5ml, 10rack/pkt Qty 01pkt	Rs.18,000/-

102.	Carboys with Spigot, White clear or semi transparent, 8-10 lit capacity, Roth, Nalgen, Fisher or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Carboys with Spigot, White clear or semi transparent, 10 lit capacity Make Kartell, Italy, Packing Each	Rs.5,130/-

103.	Single Tube rack, Holds a single 50mL conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
104.	Single Tube rack, Holds a single 15ml conical bottom centrifuge tube. Friction-fit racks for securely hold conical or round bottom tubes autoclavable and chemical-resistant. Roth or exact equivalent.
105.	Refrigerator rack, Lower section to be filled chilled water or Top insert tray hold 50 tube of 1.5ml and 15 tubes of 15 and 50 ml. CLP, fisher or exact equivalent.

Procurement Committee approved the items for purchase from local market on quotation.

106.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 25.4x7.9mm (1x 5/16"), CLP, fisher or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring. Pack contain six Bars total, two each of the sizes :25.4x7.9mm, Make Kartell, Italy, Packing Each	Rs.510/-

107.	Magnetic Stirrer Bars, Teflon resin-coated stir bars with pivot ring . pack contains six bars total, two each of the sizes: 38.1x7.9mm (1 1/2x 5/16"), CLP, fisher or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Magnetic stirrer Bars, Teflon resicoated stir bars with pivot ring.Pack contain six Bars total,two each of the sizes :38.1x7.9mm, Make Kartell, Italy, Packing Each	Rs.880/-

108.	Wash Bottles, White color, 500ml capacity, fisher, Roth or exact equivalent.
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Procurement Committee approved the technical specification and rate M/S Musaji Adam & Sons, Karachi for the item as under:

Technical Specification of the firm	Remarks
Make Kartell, Italy, Packing Each	Rs.785/-

109.	Hypo chlorite Acid Lab grade, 4 liter bottle, Fischer, Scharlau or exact equivalent
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Procurement Committee approved the technical specification and rate M/S Lab Care Karachi for the item as under:

Technical Specification of the firm	Remarks
hypochlorite labgrade, bottle of 4 liter, Unichem UK	Rs.7,500/-

110.	Moist lens wipes Quick Dry and Smear free individual sachet packing content Alcohol Denot Boots or exact equivalent.
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Procurement Committee approved the items for purchase from local market on quotation.

111.	Zanil litre pack.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Oxyclozanide Packing one liter, ICI Pakistan.	Rs.1,710/- per liter

112.	Systmax 450ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Oxfendazole 22.65mg/ml, Packing 450ml, ICI, Pakistan.	Rs.1,300/- per 450ml bottle.

113.	Valbazen litre pack.
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Procurement Committee approved the technical specification and rate M/S Orison Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
1 liter Pack, Albendazole 11.25% , (Pfizer)	Rs.5,490/- each 1litre pack

114.	Nilzan Plus litre pack.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing one liter, ICI, Pakistan.	Rs.2,080/- per liter

115.	Nilzan plus 100ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Levamisole Hcl 15mg/ml, Oxyclozanide 30mg/ml, Cabalt Sulphate 0.382mg/ml. Packing 100ml, ICI, Pakistan.	Rs.345/- 100ml per bottle.

116.	Ampiclox L/A 50ml.
117.	Mastivex 1/m tube or equivalent Each 10gm syringe

Procurement Committee approved the items for purchase from local market on quotation.

118.	Trypa Medium for surra Packing 10x1g sachets.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Trypamedium- Samorin (Isometamidium Chloride Hydrochloride Powder) Packing 10x1g sachets each to make 50ml of 2% or 100ml of 1% solution, 10x125mg sachet each to make 6.25ml of 2% solution. Merial	Rs.3,500/- each sachet 1gram

119.	Zorox gold 500ml.
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Procurement Committee approved the technical specification and rate M/S I.K. Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Packing 500 ml, Oxfendazole 2.265 % / oxclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Haxxon Health Science.	Rs.2,180/- each 500ml

120.	TRIFAS suspension 100ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 100ml M/S Leads Pharma (Pvt) Limited.	Rs.470/- 100ml bottle.

121.	TRIFAS suspension 500ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: Levamisole HCL 3.75%, Triclabendazole 5.0% packing 500ml M/S Leads Pharma (Pvt.) Limited.	Rs.2,010/- 500ml bottle.

122.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 100ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 100ml. Medi-Vet Pharma	Rs.415/- 100ml.

123.	Oxanax (oxyclozanide, Oxfendazole, Cabalt, Selenium) 50ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Oxanax suspension composition: each 100ml contains, Oxyclozanide B.P.Vet 6.250gm, Oxfendazole B.P.Vet 2.265gm, Cobalt Sulphate B.P.vet. 0.167gm, Selenium 50mg, Packing 50ml. Medi vet Pharma	Rs.1,900/- 50ml

124.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 100ml
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Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 100ml, Symans.	Rs.800/- 100ml

125.	Endosym 19.5% cattle (Triclobendazole, Levamisole) 500ml
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Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Endosym 1.5%, Composition: each ml suspension contains> Triclabendazole..120mg, Levamisole HCL.. 75mg, packing 500ml, Symans.	Rs.3,500/- 500ml

126.	Fluka Super Drench 1000ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per specification Brand name.	Rs.3,500/- 1000ml

127.	Fenid Gold drench 1000ml.
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Procurement Committee approved the technical specification and rate M/S Orison Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
1 liter Pack Oxfendazole 2.265 % / oxclozanide 6.25 % selenium 0.05 % / cobalt 0.167 %, Medicure Laboratories Pharmaceutical Manufacturers, karachi.	Rs.2,850/- each 1litre pack

128.	Fenid Gold drench 250ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per specification Brand name.	Rs.1,000/- 250ml

129.	Inj: Gentamicin 100ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Gentamicin 20% Packing 100ml, UNIVET	Rs.2,210/- P.100ml

130.	Inj: Tribriksen 50ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Tribriksen™ (Trmethoprim & Sulphadiazine) Injection 48% Packing 50ml Hiltin Pharma	Rs.680/- per 50ml

131.	Inj. Pantamycin 100ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per specification Brand name.	Rs.1,400/- 100ml

132. Inj. Gentipra-ts 100ml.

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition per ml: Gentamicin (sulphate) 30mg; Sulfadimidine 125mg; Trimethoprim 25mg, Packing 100ml bottle, MARUSH Pharma, Lahore.	Rs.2,150/- per 100ml.

133. Inj. Oxytetracyclen LA 100ml.

Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Terrasym LA-200 Inj. Composition: Each ml contains: Oxytetracycline HCl..200mg, Packing 100ml, Symans.	Rs.750/- 100ml

134. Inj. Fluean

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm.	Remarks.
Composition: Each ml contains: Flunixin Meglumine 50mg, Packing 10ml, Leads Pharma (Pvt.) Ltd.	Rs.276/- 10ml

135. Inj: TRY-BAN 3g vial

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Tryban	Rs.960/- 3g vial

136. Inj. Imezol 100ml.

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Imizol Composition: Imidocarb dipropionate 121.150mg/ml, Packing 100ml bottle, ICI Pakistan.	Rs.9,980/- per 100ml vial

137.	Inj. Butalex
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Butalex Composition: Buparaguone 50mg/ml, Packing 20ml in multi dose glass vial. ICI Pakistan.	Rs.4,410/- 20ml vial

138.	Inj. Enrofloxacin.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Enrofloxacin 10% packing 50ml Hebei China.	Rs.1,200/- 50ml

139.	Inj. Tetravaxes
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Tetravex	Rs.1,990/-

140.	Inj. Hyperalonaenro-1 100ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per specification brand name.	Rs.2,100/- 100ml

141.	Inj. Ivomec 50ml.
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition 1% Ivermactin Merial, Glycerol formal, Propylen Glycol, Packing 50ml, Merial	Rs.5,950/- 50ml vial.

142.	Inj. Trisulpha 50ml.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per specification brand name.	Rs.415/- 50ml each

143. Inj. Trimethosulf100ml Germany.

Procurement Committee approved the items for purchase from local market on quotation.

144. Inj. Brema Mectin 50ml Germany.

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Composition: 1 ml of the solution for injection contains 10mg of Ivermectin. Packing 50ml Bremer Pharma GmbH Germany.	Rs.1,480/- 50ml vial.

145. Inj: Imidocarb 50ml

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Imidocarb 50ml	Rs.1,500/- 50ml

146. Inj: Imicarb 50ml.

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Imicarb, Composition: Each mil contain: Imidocarb dipropionate...120mg Packing 50ml, Star Laboratories.	Rs.1,480/- 50ml vial

147. Inj. Buprex 20ml

Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Inj: Buprex Composition: Buparvaquone, Packing 20ml, Star Laboratories.	Rs.1,300/- 20ml vial.

148. Inj: Dura Plex 20ml.

Procurement Committee approved the items for purchase from local market on quotation.

149. Antibiotic 3rd generation.

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Medi-T.G.C. Inj: Composition: Each ml contains. Tylosin Tartrate B.P. Vety. 200mg, Gentamycin Base (as sulphate) B.P. 100mg, Colistin Sulphate B.P. 50mg. Packing 50ml, Medi-Vet (Pvt.) Ltd.	Rs.1,575/- 50ml

150. Antiparastic drugs 3rd generation
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Procurement Committee approved the technical specification and rate M/S China Medical Store, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Thunder Drench Each 100ml contains: Albendazole 10gm, Triclabendazole 12gm, Ivermectin 0.2gm, Packing 500ml, Star Laboratories.	Rs.2,610/- 500ml

151. Anitiprotozoan 3rd generation.
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Procurement Committee approved the technical specification and rate M/S Orison Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Imidox Inj 100 ml, Imidocarb dipropionate 120 mg, Powered by Ghazi Brothers.	Rs.7,480/- each 100ml

152. Wheat Straw Per kg.

Procurement Committee approved the technical specification and rate M/S Lucky Brothers, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per tender specification.	Rs.9/- per KG

153. Wheat Bran Per kg.

Procurement Committee approved the technical specification and rate M/S Lucky Brothers, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per tender specification.	Rs.21/- per kg

154. Broken Wheat Per kg.

Procurement Committee approved the technical specification and rate M/S Lucky Brothers, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per tender specification.	Rs.32/- per kg

155. Rice Polish livestock feed category per KG
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Fine quality, high fiber, good dietary, no dust, moist.	Rs.26/- per kg

156. Cotton Seed Cake Per kg

Procurement Committee approved the technical specification and rate M/S Lucky Brothers, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
As per tender specification.	Rs.25/- per kg

157. Mustard Cake Per Kg.

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
High quality.	Rs.200/- per kg

158. Rocky salt.

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Fine and high quality.	Rs.250/- per kg

159. Mustard Sweet Oil Per Liter

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Fresh, Fine, best quality.	Rs.200/- per liter

160. Rock Salt Per Kg.

Procurement Committee approved the technical specification and rate M/S Shameel Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Good quality.	Rs.108.10 per kg

161. Sunflower meal/ cake per kg.
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Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Feed grade , high dietary	Rs.190/- per kg

162. Maize per Kg/ day.

Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Green, Fresh, High great quality.	Rs.8.75 per kg

163. Burseem per Kg/ day.

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Farm fresh, lush green, dietary fiber high nutrition.	Rs.6.75 per kg

164. Junter per Kg/ day.

Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Green, Fresh, High great quality.	Rs.8/- per kg

165. Sorghum per Kg/ day.

Procurement Committee approved the technical specification and rate M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Best quality fresh green.	Rs.6.75 pr kg

166. Lucerne per Kg/ day.

Procurement Committee approved the technical specification and rate M/S Choice Enterprises, Hyderabad for the item as under:

Technical Specification of the firm	Remarks
Green, Fresh, High great quality.	Rs.7.75 per kg

It was further decided in the meeting:

1. At the time of installation of equipment it will be suppliers' responsibility to make equipment functional.
2. The firm will provide at least one year warranty of service, repair and spare parts against the equipment.
3. All the firms will pay sales tax as per government rule from the approved cost.
4. All the firms will have to pay income tax and all other usual taxes (admissible as per policy/ rules) before delivery (with own expenses) of the goods.
5. The payment shall be made to the firms against the supply of item with the consent of receiving committee of CVDL, ensuring that the items were according to the specification.
6. All the firms will be responsible to deliver the goods within thirty (30) days after issuance of the work order failing which their supply orders will be treated as cancelled and same will be placed to 2nd lowest bidder (subject to qualifying technical specification).
7. The firm will provide one year warranty against the instruments, in case of chemicals and medicines the same will not be accepted with the expiry date less than two years or 70% of shelf life.

Meeting ended with vote of thanks.

(Dr. Aslam Pervez Umrani)
Director
Veterinary Research & Diagnosis
Central Veterinary Diagnostic Laboratory
Sindh, Tando Jam.

(Muhammad Anwar Malik)
Section Office (G)
Livestock & Fisheries Department,
Government Of Sindh, Karachi

Representative of
District Accounts Office Hyderabad

Representative of
Finance Department, GoS,

(Dr. Abdullah Mewati)
Director General
Livestock (Extension/Research)
Sindh, Hyderabad.