



GOVERNMENT OF SINDH
LIVESTOCK AND FISHERIES
DEPARTMENT

NOTIFICATION

NO. SO(G)/L&F/2(70)/14-15: In compliance of Rule 7 & 8 of Sindh Public Procurement Rules 2010 (Amended 2013) Procurement Committee of Livestock & Fisheries Department, Government of Sindh are hereby constituted for procurement of Medicines/Vaccines/Feed/Machinery & Equipment/Transport/Furniture & Fixture etc, consisting of the following:

PROCUREMENT COMMITTEE

- | | | |
|-------|--|-----------------|
| (i) | Director General (concerned) | Chairman |
| (ii) | Director/PD/SRO/Dy. Director /Suptt: Govt. Farms /DDOs (concerned) | Member |
| (iii) | Representative of A.G. Sindh / D.A.O (concerned) | Member |


**FUNCTIONS AND RESPONSIBILITIES OF PROCUREMENT COMMITTEE(S)-
PROCUREMENT COMMITTEE(S) SHALL BE RESPONSIBLE FOR:**

1. Preparing bidding documents,
2. Carrying out technical as well as financial evaluation of the bids,
3. Preparing evaluation report as provided in Rule 45,
4. Making recommendations for the award of contract to the Competent Authority and
5. Perform any other function ancillary and in incidental to the above.
6. The Competent Authority, i.e Secretary Livestock & Fisheries Department, Government of Sindh would give final approval of the procurement on the recommendations of Procurement Committee.

This Department's Notifications for Procurement Committee issued vide NO: SO(G)/L&F/TC/SPPRA/2014 dated: 10.09.2015 is hereby cancelled / withdrawn.


(MUHAMMAD RAMZAN AWAN)
SECRETARY TO GOVERNMENT OF SINDH

Karachi, dated 26th September, 2016


NO.SO(G)/L&F/2(70)/14-15:

CC to:

- i. The Accountant General, Sindh, Karachi.
- ii. The Secretary, Finance Department Government of Sindh, Karachi.
- iii. The Director General Livestock Sindh, Hyderabad.
- iv. The Director General, Livestock (Ext/Research), Sindh, Hyderabad
- v. The Director General, Fisheries Sindh, Karachi.
- vi. The Director, (A&F) Sindh Public Procurement Regulatory Authority, Government of Sindh, Karachi.
- vii. The Directors in Sindh (All). **DCV DL**
- viii. The Deputy Director, Livestock/AH/Livestock Production/Poultry Production/Fisheries (All in Sindh).
- ix. The District Accounts Officer concerned.
- x. The PS to Secretary, Livestock & Fisheries Department Government of Sindh Karachi.


(MUHAMMAD SADIQ KHASKHELI)
SECTION OFFICER (GENERAL)



GOVERNMENT OF SINDH
LIVESTOCK AND FISHERIES DEPARTMENT

021-99204248

NOTIFICATION

NO.SO(DIV/L&F/2(70) 2015-16: In compliance of Rule 31 of Sindh Public Procurement Rules 2010 (Amended 2013), Complaint Redressal Committee of Livestock and Fisheries Department, Government of Sindh are hereby constituted for procurement of Medicines / Vaccines / Feed / Machinery and Equipment / Transport / Furniture and Fixture etc consisting of the following:

COMPLAINT REDRESSAL COMMITTEE

- | | |
|--|----------|
| 1. Secretary, Livestock & Fisheries Department,
Government of Sindh | Chairman |
| 2. Representative of A.G. Sindh / DAO (Concerned) | Member |
| 3. Senior Technical Officer of office of Director/
Project Director / Deputy Director / Superintendent
Government Farm / DDO (Concerned) | Member |

The Complaint Redressal Committee shall announce its decision within seven days & intimate the same to the bidder and authority within three working days.


(NOOR MUHAMMAD LEGHARI)
SECRETARY TO GOVT. OF SINDH

NO.SO (G/L&F/2(70)20 15-16

Karachi dated: 30.09.2015

CC to:

1. The Accountant General, Sindh, Karachi.
2. The Secretary, Finance Department Govt. of Sindh, Karachi.
3. The Director General, Livestock (Ext/Research), Sindh, Hyderabad.
4. The Director General Livestock (Extension/Research) Sindh, Hyderabad.
5. The Director General Fisheries Sindh, Karachi.
6. The Director (A&F), SPPRA, Government of Sindh, Karachi.
7. The Directors Livestock and Fisheries in Sindh (All)
8. The Project Directors in Sindh (All).
9. The District Accounts Officer in Sindh (All).
10. The Deputy Director, LS(AH)/ Livestock Production/Poultry Production/Fisheries in Sindh (All).
11. The Superintendent, Government Farms in Sindh (All).
12. PS to Secretary, Livestock & Fisheries Department, Govt. of Sindh, Karachi.




(MUHAMMAZ ANWAR MALIK)
SECTION OFFICER (GENERAL)




NO.SO(G)/L&F/3(203)/2016
GOVERNMENT OF SINDH
LIVESTOCK AND FISHERIES
DEPARTMENT
Karachi, dated 2nd January, 2017

The Director General,
Livestock (Extension / Research) Sindh,
Hyderabad.

SUBJECT: MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 22-12-2016 @ 02:30 PM, FOR PROCUREMENT OF "HARDWARE, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE / FIXTURE" FOR CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH, TANDOJAM DURING THE CURRENT FINANCIAL YEAR 2016-17.

I am directed to refer to your letter NO: DGL (E/R) AC / Tender (PP&R) / 16-17/7390-91, dated: 23rd December, 2016 on the subject noted above and to state that the Competent Authority has approved to proceed in the matter as recommended by Procurement Committee after completion of all the required codal formalities as per Sindh Public Procurement Regulatory Authority rules.



(MUHAMMAD ADIO KHASKHLI)
SECTION OFFICER (GENERAL)

CC to:

1. PS to Minister, Livestock & Fisheries Sindh, Karachi.
2. PS to Secretary, Livestock & Fisheries Department, Govt. of Sindh, Karachi.
- ✓ 3. Master File

NO. DGL/CE/R)Ac/Tender/ 61 Hyderabad 3/01/2017

copy forwarded with compliments to the Director CVDL Sindh Tando Jam for information & action.


DIRECTOR GENERAL
LIVESTOCK (EXTENSION/RESEARCH) SINDH,
HYDERABAD.



MINUTES OF THE 2ND MEETING OF THE PROCUREMENT COMMITTEE (**OPENING OF TENDERS**) HELD ON 30-11-2016 @ 12.00HOURS IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR THE PROCUREMENT OF "HARDWARE, LABORATORY MACHINER & EQUIPMENT AND FURNITURE/FIXTURE" FOR THE DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2016-2017.

List of participants attached

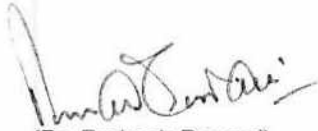
The tender was advertised in national newspapers through information department & Government website. The tender was published in "**The Daily Kawish, Daily Jang and Daily Dawn dated 10-11-2016 and SPPRA website Sr. No.30405 dated 10-11-2016**". Nine (9) firms purchased tender documents and submitted sealed tenders by closing date 30-11-2016 @11.30am at Directorate General, Livestock (Extension/Research) Sindh, Hyderabad.

The tenders were opened on 30-11-2016 at 12.00hours before seven (07) 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:

- Verify call deposits (CDs) of the all participating bidders from relevant bank.
- Verify call deposits (CDs) as per bid value being quoted by the bidders, if it is lower than the quoted bid value, then letter be issued to the concerned bidder for submission of CD of remaining amount, otherwise their bid may not qualify for 3rd meeting of Procurement Committee.
- Professional tax for the current financial year 2016-17 be verified.

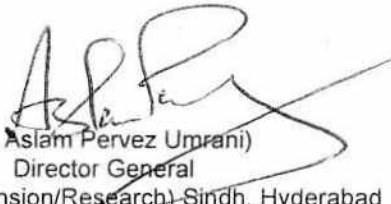
- Comparative statement and working paper be prepared showing the technical specification as per tender items and same may be put before the Procurement Committee during its 3rd meeting for finalization of tenders.



(Dr. Parkash Dewani)
Senior Research Officer
Veterinary Research & Diagnosis
CVDL Sindh, Tando Jam
Member Procurement Committee.



(Ghulam Mustafa)
Senior Auditor
Representative of
District Accounts Office Hyderabad
Member Procurement Committee.



(Dr. Aslam Pervez Umrani)
Director General
Livestock (Extension/Research)-Sindh, Hyderabad
Chairman Procurement Committee..






**DIRECTORATE GENERAL
LIVESTOCK (EXTENSION/ RESEARCH) SINDH**

Strengthening of Livestock Services Project Building Behind Shahbaz Building Block-A, Hyderabad.

Tel: 022-9200366
Fax: 022-2787882

ATTENDANCE SHEET.

LIST OF OFFICERS PARTICIPATED IN THE 2nd MEETING OF PROCUREMENT COMMITTEE HELD ON 30-11-2016 @ 12.00NOON IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR OPENING OF TENDERS FOR PROCUREMENT "HARDWARE, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH, TANDO JAM (UNDER DEVELOPMENT DURING THE CURRENT FINANCIAL YEAR 2016-2017.

1.	Dr. Aslam Pervez Umrani, Director General, Livestock (Extension/Research) Sindh, Hyderabad/ Chairman Procurement Committee.	On chair 
2.	Dr. Parkash Dewani, Senior Research Officer, Directorate of Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam/ Member Procurement Committee.	
3.	Mr. Ghulam Mustafa, Senior Auditor Representative of District Accounts Office, Hyderabad/ Member Procurement Committee.	



**DIRECTORATE GENERAL
LIVESTOCK (EXTENSION/ RESEARCH) SINDH**

Strengthening of Livestock Services Project Building Behind Shahbaz Building Block-A, Hyderabad.

Tel: 022-9200366
Fax: 022-2787382

ATTENDANCE SHEET.

LIST OF BIDDERS/ REPRESENTATIVES PARTICIPATED IN THE 2ND MEETING OF PROCUREMENT COMMITTEE HELD ON 30-11-2016 @ 12.00NOON IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR OPENING OF TENDERS FOR THE PROCUREMENT "HARDWAR, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE" FOR CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH, TANDO JAM (UNDER DEVELOPMENT) DURING THE CURRENT FINANCIAL YEAR 2016-17.

Sr. #	NAME OF FIRM	NAME OF THE PARTICIPANTS/ REPRESENTATIVE	SIGNATURE.	Cell #
1	Al-Berumi Hyd	A. Hameed		0335-302
2	BURRAY BUSINESS	Liaqat Ali		033535285
3	Y. J. W Hyd	JAWWAN		0347359878
4	DUKE TRADE	M. YAKIR		03368337067
5	Scien Tec	Ahsan Latif		0300-02023
6	AJ. Enterprises	Khadija Hussain		030093795
7	M/S Super Con	KAMIAN		030338136
8				
9				



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

BIDDER ELIGIBILITY/QUALIFICATION REPORT.

Sr. No	Evaluation criteria	Name of firm									
		M/S Talha Enterprises, Karachi.	M/S Al-Beruni Scientific Store Hyderabad.	M/S Scientific Technical Corporation (Ltd.) Lahore.	M/S ScienTec, Karachi.	M/S Duke Traders, Hyderabad.	M/S YJW Trading Corporation, Hyderabad.	M/S A.J. Enterprises, Karachi.	M/S Burraq Business Corporation, Hyderabad	M/S SuperCon, Enterprises, Hyderabad	
1	Original Tender Receipt	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	N.T.N Certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	Sales Tax Certificate	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	Professional Tax Certificate 2016-17	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	Compliance Technical Specifications/ original brochure	Yes	Yes (Non compliance of technical specification as per tender for item # 2 of Mach: Equip.)	Yes	Yes (Non compliance of technical specification as per tender for item # 14 of Mach: Equip.)	Yes (except item No. 7 of Machinery & Equipment)	Yes (except item No. 7 of Machinery & Equipment)	Yes (except item No. 7 of Machinery & Equipment)	Yes	Yes (Non compliance of technical specification as per tender for item # 2 of Mach: Equip.)	Yes
6	Any Other Documents Affidavit Agreement	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	Required Bid Security is attached.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

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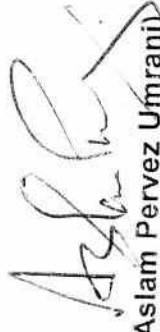
Sr. No.	Evaluation criteria	Name of firm									
		M/S Talha Enterprises, Karachi.	M/S Al-Beruni Scientific Store Hyderabad.	M/S Scientific Technical Corporation (Ltd.) Lahore.	M/S ScienTec, Karachi.	M/S Duke Traders, Hyderabad.	M/S Y.J.W Trading Corporation, Hyderabad.	M/S A.J. Enterprises, Karachi.	M/S Burraq Business Corporation, Hyderabad.	M/S SuperCon, Enterprises, Hyderabad.	
8	Turnover of at Last Two Years	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	Tax Return of Last Three Years	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	Appropriate of Supply Schedule offered by the bidders	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	Qualified / Disqualified	Qualified	Qualified (Non compliance of technical specification as per tender for item # 2 of Mach. Equip.)	Qualified	Qualified (Non compliance of technical specification as per tender for item # 14 of Mach. Equip.)	Qualified (except item No. 7 of Machinery & Equipment)	Qualified (except item No. 7 of Machinery & Equipment)	Qualified (except item No. 7 of Machinery & Equipment)	Qualified	Qualified	Qualified ((Non compliance of technical specification as per tender for item # 2 of Mach. Equip.)



(DR. Parkash Dewani)
Senior Research Officer
Directorate of Veterinary Research & Diagnosis
CVDL Sindh, Tando Jam



(Ghulam Mustafa)
Senior Auditor
Representative of
District Accounts Office, Hyderabad



(Dr. Aslam Pervez Umrani)
Director General
Livestock (Extension/Research)
Sindh, Hyderabad.



DIRECTORATE OF VETERINARY RESEARCH AND DIAGNOSIS, CENTRAL VETERINARY
DIAGNOSTIC LABORATORY SINDH, TANDO JAM TELEPHONE # 02222765279 FAX # 02222766964.

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/LAC/Tender/ 2016-17/11
3.	Tender Description/ Name of Work/ Item:	Purchase of Hardware, Laboratory Machinery & Equipment and Furniture/Fixture.
4.	Method of Procurement:	Single Stage - One Envelope Procedure
5.	Tender Published in:	The Daily Kawish, Daily Jang and Daily Dawn dated 10-11-2016 and SPPRA Sr. No.30405 dated 10-11-2016
6.	Total Bid Documents Sold:	Nine (09) Documents Sold
7.	Total Bid Received:	Nine (09) Bids Received
8.	Technical Bid Opening Date (if applicable):	Not Applicable
9.	No. of bid Technically Qualified (if applicable):	Not Applicable
10.	Bid(s) Rejected:	Nil
11.	Financial Bid Opening Date:	30 th November, 2016 ✓
12.	Bid Evaluation Report:	Detail as under

(DR. Parkash Dewani)
Senior Research Officer
Directorate of Veterinary Research &
Diagnosis, CVDL Sindh, Tando Jam
Member Procurement Committee

(Dr. Aslam Pervez Umrani)
Director General
Livestock (Extension/Research) Sindh Hyderabad
Chairman Procurement Committee

(Ghulam Mustafa)
Senior Auditor
Representative of District Accounts Office, Hyderabad
Member Procurement Committee

Purchase of Hardware.

1.	<p>Computers and Printers with all accessories as below or higher specification. Desktop computer Intel, core i5, 5th generation processor or higher specification, complete with Microsoft Windows 10 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i7, 6th generation, Processor speed 4.2GHz, 8GB RAM, Hard drive: 500GB SATA-III hard drive, DVD optical drives: read and write Dual layer, SATA 24 ASUS Graphics: Shared Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. Operating system and software. Monitor full HD 21" 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/Letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.</p>	
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.145,000/- each. Desktop computer Ledcorei5 5 th Generation processor, one year local warranty, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i5 6 th Generation 15-4460, Processor speed 4.2GHz,8GB RAM, Hard drive: 500GB SATA-III hard drive, casing tower ATX (Legend)DVD optical drives: read and write Dual layer, Graphics: Shared, Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. Operating system and software, Monitor LED 19" AOL. Extras : Dust cover , Headphone etc, 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/Letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension, 13.74x9.38x7.71, One Year local warranty	1 st lowest.	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.149,000/- each Desktop computer corei5 processor, complete with Microsoft Windows 7 professional or above Genuine System and life time antivirus, CPU and Memory: Intel Core i5 6 th generation 15.4460. One year local warranty.	2 nd lowest.	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs.177,000/- each Processor: Intel Latest 6 th Generation Core i7-6700 (3.4GHz, 4C, 8T), Chipset: Intel Q170 Latest Memory: 8GB DDR-4, supporting upto 32GBDDR4-2133SDRAM, Hard Disk: 500GB SATA Hard Disk, Graphic: Intel HD Graphic integrated, Expansion Slots: 1 full height PCIe x16, 1 full height PCIe x16 (wired x 4), 1 full height PCIe x1, 1 full height PCI, 1 M.2 (22x80mm) , Ports: 10 External USB: 6 x 3.0 (2 front/4 rear) and 4 x 2.0 (2 front/2 rear - 1 front with PowerShare); 1 Internal USB 2.0; 1 RJ-45; 1 Serial; 2 Display Port 1.2; 1 HDMI 1.4; 2 PS/2; 1 UAJ, Micro: 6 External USB3.0 (2 front/4 rear - 1 front with PowerShare); 1 RJ-45; 1 HDMI 1.4; 1 Display Port 1.2; 1 UAJ (front); 1 Line-out(front); , Chassis & PSU: Standard 240W PSU Active PFC, 240W typical 85% Efficient PSU (80 PLUS Bronze) ENERGY STAR compliant, Active PFC, 240W typical 92% Efficient PSU (80 PLUS Platinum); ENERGY STAR compliant, Active PFC, Keyboard & Mouse: Standard USB Keyboard & Mouse, DVD-RW: DVD-RW provided, Display: LED 21.5" Dell, Operating System: Windows 10 Professional, PRINTER: HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer	3 rd lowest.	Accepted

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Purchase of Laboratory Machinery & Equipment.

1 Glass distillatory Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V UK, USA, Germany OR Exact equivalent standard.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Al-Beruni Scientific Store Hyderabad.	Rs.72,000/- each Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V Imported.	1 st lowest	Accepted
2	M/S ScienTec, Karachi.	Rs.80,000/- each Water Distillation unit (single Distillation), Output 4 Liters/Hours, Model: 3361, Make: Borosil	2 nd lowest	Accepted
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.84,240/- each Water Distillation Apparatus Model: BMS-4CE China, Specifications: Capacity: 4litre/hour. Power: 220VAC. 50/60Hz.	3 rd lowest	Accepted
4	M/S SuperCon, Enterprises, Hyderabad.	Rs.337,770/- each Model: DEST-4, BOECCO Germany.	4 th lowest	Accepted
5	M/S Talha Enterprises, Karachi.	Rs.1,098,342/- each Item Code W4000, Glass construction with long life metal heating element, Two independent safety thermostats, Wall mountable	5 th lowest.	Accepted

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2 Autoclave 25 liters capacity, top loading, Temp range 5-132°C, Accuracy $\pm 0.5^\circ\text{C}$ @ 121°C, digital display, timer Heater 2KW, pressure 1.2kg/cm stainless steel, electronic door lock sensing, safety devices for temp, pressure, 02 wire basket U.K/ Germany/ Japan or imported equivalent.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S ScienTec, Karachi.	Rs.399,000/- each Autoclave, 50Ltr, Model: FD50A, Make: SysTech, (Autoclave & Sterilizers)	1 st lowest	Accepted
2	M/S Talha Enterprises, Karachi.	Rs.472,132/- each Autoclave 25 liters capacity, Item Code RAY-LS-30SII, PRODUCT BACKGROUND: Technical Parameters: Model: RAY-LS-30SII, Volume: 30L, Rated working temperature: 133, Rated working pressure: 0.145MPa, Power Consumption: 2KW, Power supply: 220V 10%/50Hz 2%, DIM. Exterior (mm): 394*394*800, DIM. Interior (mm): 300*400, DIM. Basket (mm): 280*360 *1 pc, Company Name RAYLABEL, Imported	2 nd lowest	Accepted
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.833,625/- each Digital Fuzzy-control Autoclave With Steam Condensing Mechanism, Model:MAXTERILE-60, Daihan Scientific North America Inc:USA, Specifications: Standard Type, Capacity:60 Lit., Temp. Range & Accuracy: Room +5°C to 132°C, +0.5°C at 121°C, Pressure & Gauge: 1.2kgf/cm2 at 121°C / 2.0kgf/cm2 at 132°C, 0 ~ 3kgf/cm2, Sterilization mode: Solid- or Liquid-mode, Heating Power/Consumption: 3 kW, Timer & Alarm: 60 min, Error status & Timer-end, Display: Digital LCD with Back-Light Function, Controller: Digital Fuzzy-Control System (Fully Automatic), Door & Closing System: Lever-type Sliding Door / Safety Electronic Door Closing System, Safety Circuit: Over-Temp./-Pressure/-Current protection, Sensor Error Detection, Printer: Thermal type printer, Record Paper Roll:w58 x Ø40mm, Material: Stainless steel (#304)-Pressure Vessel, Powder Coated steel-External, Basket: 2ea of Stainless steel Wire Baskets are Included, Basket Dimension (mm): Ø320 x h240, Dimension (W x D x H) Inner (mm): Ø350 x h650, Dimension (W x D x H) Outer (mm): 680 x 470 x 900, Packing Size: (mm) 840x610xh1252mm, Gross Weight (kg): 120 kg, Power Supply: AC 230V, 50/60Hz	3 rd lowest	Accepted

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3	<p>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer software and operation manual, reading 96 well plates on board, software 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, USA/UK/Germany or Exact Equivalent imported 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, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p> <p>c) Computer with i5, Intel mother board and processor 4.2GHZ, 8MB RAM.</p> <p>d) Dot matrix printer. Impact dot matrix printing method, 24 pins, 80 columns, 24 needles, USB interface High speed-draft 100dpi:347 chars/sec, 360x80DPI printing resolution window 2000, window 7, window 8, window vista and window XP, memory 128KB, compatible operating system, software CD, user manual and warranty 1-year EPSON, or exact equivalent.</p>	
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	<p>M/S Scientific Technical Corporation (Ltd.) Lahore.</p>	<p>ELISA Reader, Washer, Computer and Printer Rs.1,070,550/- each set.</p> <p>A). Absorbance Reader, 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 96-well plates, 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: 405nm,450nm,490nm,630nm, OD accuracy: <1% at 2.0 OD, <3% at 3.0 OD, OD repeatability: <0.5% at 2.0 OD, 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), Regulatory Regulatory: For In Vitro Diagnostic use. CE and TUV marked, ROHS Compliant.</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, Microplate Types: 96 well, Maintenance: Pre-programmed maintenance routines, Onboard Software: Create, edit or run multiple protocols, Operating Temperature: 15°C to 40°C (59° to 104° F), Humidity: 10% to 85%, non-condensing, Electrical: Compatible with 100 to 240 V- ± 10% @ 50-60 Hz, 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, Sterilization: Chemical: 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution, 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), Regulatory Regulatory: CE and TUV marked, ROHS compliant. In Vitro Diagnostic use models are available.</p> <p>C). PC & Printer</p> <p>D). 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), * 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>	1 st lowest	Accepted

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
2	M/S Talha Enterprises, Karachi.	<p>ELISA Reader, Washer, computer and printer. Rs.2,565,000/- each set</p> <p>A). Absorbance Microplate ELISA Reader Model: ELX800 CE Certified with 04 Built in Filters: 405,450,490,630 mm, Detection method: Absorbance, Read method, Endpoint Kinetic and well area scanning via computer control, Microplate types: 6-, 12-, 24-, 48-, 96-well microplates, 384- and 60/72/96-well Terasaki plates (NB option), Software: Gen5 Data Analysis Software (optional) Onboard software, 55 user-programmable protocols, Light source, Tungsten Halogen Wavelength selection, Filters, Wavelength range, 400 to 750 nm 340 to 750 nm (UV option) Bandpass, 10 nm, Dynamic range, 0 to 3.0 OD, Resolution, 0.001 OD, Filter wheel capacity 5 positions, Filters supplied, 4 filters (5 with UV option), OD accuracy, <1% at 2.0 OD typical, OD linearity, <1% at 2.0 OD typical, <3% at 3.0 OD typical, OD repeatability, <0.5% at 2.0 OD typical Reading speed, 30 secs single wavelength, Power: 100-240 V_{ac} 50/60 Hz: Dimensions: 16.5"D x 15"W x 7"H (41.9 x 38.1 x 17.8 cm), Weight, 18.5 lbs (8 kg), Regulatory, IVD (In Vitro Diagnostics) Directive: All Biotek microplate instrumentation is CE and ETL marked. For details on approvals and standards compliance: please contact Biotek Manufacturer: Biotek Instruments INC USA</p> <p>B). Microplate ELISA Washer Model: ELX508 CE Certified Microplate Types: Flat-bottom 96-well plates, low profile and standard height Manifolds 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 Sterilization (Washing) Chemical: 70% Ethyl or Isopropyl Alcohol and 0.5% Sodium Hypochlorite Solution 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: mpatible with 100 to 240 V~ }10% at 50-60 Hz Manufacturer : Biotek Instruments INC USA, Supplier: Biotechnology Medical Services Europe Country Origin: USA</p> <p>C). Computer with i5, Intel mother board, And Processor 4.2GHZ, 8MB RAM.</p> <p>D). Dot Matrix Printer HP.</p>	2 nd lowest	Accepted

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4 Research Microscope: Nikon, Olympus, Labomed, Kyowa, Medlux (Stand, Single mold sturdy stand with anti-rust materials Viewing Bodies Binocular head 30° inclined, 360° rotatable dovetails, Interpupillary distance 48-75mm, Eyepieces: Wide field focusable eyepieces 10x/20mm with foldable eye guard, rackable, antifungal, Nosepiece Quadruple Nosepiece (Ball reserve angle bearing type) with rubber grip. Objective: Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Size 200 x160mm, Rackless X-axis, double plate stage, XY travel range 78mmx54mm, low drive movement controls, double specimen holder. Hard coated surface for scratch resistance. Condenser: Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with 32mm blue day light filter Rack and pinion movements on stainless steel guides Focusing: Co-axial coarse and fine focusing on ball drive system for smooth operation. Illumination: Halogen 6V-30W or LED (built in interchangeable battery) illumination with variable illumination control. Up to 100 000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals Universal input 100V-240V AC, 50/60Hz Built in voltage stabilizer. Accessories: 10x, 40x & 100x objectives Immersion oil & dust cover. **Microscope eye piece camera**. USB 2.0 output: 3.2M/ Resolution 0.48x1536110mm (H) x55mm (D) Adopter Universal: 23mm/30mm/ 30.5mm. Sensor: 1/2" Enhanced Color CMOS & capture soft ware. Objectives Immersion oil & dust cover. **UK/USA/Japan/Germany), or equivalent or higher specification**

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.429,975/- each. Binocular Research Microscope , Model: Lx 500, ; With Microscope eye piece Camera , Cat No. 9144700, LABO AMERICA INC., USA.	1 st lowest	Accepted
2	M/S ScienTec, Karachi.	Rs.458,060/- 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-LED ₂ system with adjustable intensity. Camera: 8MP digital camera with optical adapter & Measuring software. 2.4" LCD display.	2 nd lowest	Accepted
3	M/S Talha Enterprises, Karachi.	Rs.531,300/- each Model BXTV-1C Company Name BIOBASE	3 rd lowest	Accepted
4	M/S SuperCon, Enterprises, Hyderabad.	Rs.996,300/- each Model: BM-700, BOECO, Germany, Research Microscope with Trinocular Tube and 5.0 mega pixels CMOS HD camera, Software and Compatible computer with LED Monitor 19". Spare LED lamps, operating Manual and filters. Eyepiece camera is on abselete system.	4 th lowest	Accepted
5	M/S Al-Beruni Scientific Store Hyderabad.	Rs.1,190,000/- each Microscope Demonstration Trinocular research with standard refraction head 45° inclined, 360° Rotatable with dual diopter adjustment for eye with individual interpupillary distances adjustable from 54 to 74mm to conform and Y with vernier reading to 0.1mm with four Plan objectives 4x/0.10 W.D 9.0mm, 10x/0.25 W.D 5.3mm, 40x spring/0.65W.D 0.5mm, 100x oil spring/1.25 N.A and W.D. 0.1mm, pair of eyepieces 10x F.N 20mm wide field high point condenser Abbe type 2 lens precentered N.a. 1.25 with Iris Diaphragm and filter holder with built in LED Illuminator Koehler and standard accessories, operated on 220 Volts MT-4000 Series. Model MT-4300L, Meiji Techno. Made in Japan	5 th lowest.	Accepted

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5	Refrigerator upright 500 liters (17.5cfu) , Refrigerator + 4°C, Top mount freezer, one shelf, Refrigerator – 3 shelves, Warranty one year parts, 10 years compressor, Dawlance, Haier, PEL, Waves, or equivalent.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.85,000/- each. As per tender Dawlance/ Haier/ Orient	1st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.859,000/- each As per tender Dawlance/ Haier/ Orient	2 nd lowest	Accepted

6	Air-Conditioner 1.5 ton window with installation and iron grill , Cooling Capacity: 1.5ton, Compressor, Piston, Refrigerant: R-22, Electrostatic filter Temperature control, Remote control Digital, Anti corrosion body Deodouring filter. General, National/LG or equivalent or higher specification
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.89,500/- each. Air conditioner 1.5 ton Split with Installation, Dawlance/Orient/Haier	1st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.93,500/- each As per tender Dawlance/ Orient/ Haier	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs.109,500/- each Capacity (Ton): 1.5, Cooling capacity:5,120, 17,500, Moisture Removal: 2.0, Air flow – High:940, 554, Power supply: 220-240 / 1 / 50, Running Current:8.4, Power Consumption: 1800, EER: 2.84, Dimensions H x W x D: 455 x 670 x 710, Net Weight: 53, Operating Temperature: 60°C, Refrigerant: R22, Compressor, Advanced Hyper Tropical Rotary Warranty: 01 Year	3 rd lowest	Accepted

7 Digital balance electricity/ battery operated 0.01g readability 500g capacity, stainless steel pan, Germany, USA, UK, Japan or equivalent imported.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.45,630/- each Portable Precision Balances Model: HCB 602H ADAM Equipment Co., Ltd. UK. Technical Specifications: Maximum capacity: 600g, Readability: 0.01g, Repeatability (S.D.): 0.1g, Linearity (\pm): 0.02g, Pan size: 120mm \varnothing , General Specifications: Typical stabilisation time: 2 Sec, Units of measurement: Gram (g), Carat (ct), Pound (lb), Ounce (Oz), Dram (d), Grain (GN), (TL.T), Taels Hk. (TL.H), Taels T. (TL.T), Momme (MM), Taels S. (TL.S), Taels T. (TL.T), Power supply: 12VDC 800mA AC adaptor/rechargeable battery pack, Draught shield: Removable draft shield standard on all models, Draught shield dimensions: 132mm, Overall dimensions (wxdxh): 170 x 245 x 80mm, Net weight: 2kg	1 st lowest	Accepted
2	M/S A.J. Enterprises, Karachi.	Rs.77,800/- each Digital Balance Panther Brand:0.01g readability, 600g capacity, Brand: Panther Company (USA), Stabilization Time: 3 seconds, Warranty: 03 Years	2 nd lowest	Accepted
3	M/S Talha Enterprises, Karachi.	Rs.145,000/- each Digital Balance Item Code:RAY-5002, LCD display, Pan Size : \varnothing 125, Weighing Capacity(g):500, Readability(g):0.01, Repeatability (\leq g): } 0.01, Linearity(\leq g): }0.02, Gross Eight(kg):2.9, Net Eight(kg):1.5, Dimension(mm): 190*250*75, Company Name RAYLABEL	3 rd lowest	Accepted
4	M/S Al-Beruni Scientific Store Hyderabad.	Rs.99,000/- each Electronic Balance digital top loading, high precision electromagnetic balances, very fast response, various unit conversions and various piece counting functions available analogue bar display, capacity 2200gm, Readability 0.01gm, pan size 160x124mm, operated on 220 volts, Model BL-2200H, Shimadzu, Japan	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.196,830/- each, Model: BPS-52 plus, BOECO, Germany, with automatic internal calibration Capacity: 2100grams, Readability: 0.01gram, Power: 220, 50Hz, complete with standard accessories.	5 th lowest	Accepted

8	Binocular Microscope image capturing digital camera with LCD display. Nikon, Olympus, Labomed, Kyowa, Medilux or equivalent (UK/USA/ Japan/ Germany). Stand Single mold sturdy stand with anti-rust materials. Viewing. Bodies, 45° inclined, 360° rotatable dovetails, Interpupillary distance 54.74mm Eyepieces. Wide field focusable paired eyepieces 10x/18mm with foldable eye guard, lackable, antifungal Nosepiece Quadruple Nosepiece (Ball bearing type) with rubber grip. Objective: Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Rectangular stage size 135x124mm, XY travel range 76mmx50mm, low drive movement controls, single specimen holder. Condenser. Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragms with snap-in blue filter Focusing. Co-axial coarse and fine focusing on ball drive system for smooth operation. Fine drive movement 0.3mm/rotation. Illumination. LED or Halogen 6V-20W illumination with variable illumination control. Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals. Universal input 100V-240V AC, 50/60Hz. Builtin voltage stabilizer. Accessories. 10x, 40xs & 100x objectives Immersion oil & dust cover.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	<p>Rs.134,550/- each. Binocular Microscope Model: CxL Trinocular With Microscope eye piece Camera Cat No. 9135012 LABO AMERICA INC., USA. Objectives: LPseries DIN Semi Plan Achromatic objectives, antifungal coatings: 4x/NA 0.10/WD 16.5mm, 10x/NA 0.25/WD 6.45mm, 40x (spring)/NA 0.65/WD 0.45mm, 100x (spring loaded, oil)/NA 1.25/WD 0.10mm Accessories: a) Rs.113,490/- Camera ivu-3100 B). Rs.45,630/- 24" LCD for CxL Sony/ Samsung Total: Rs.293,670/- per set.</p>	1 st lowest	Accepted
2	M/S Scientec, Karachi.	<p>Rs.458,060/- each 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>	2 nd lowest	Accepted

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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
3	M/S Talha Enterprises, Karachi.	Rs.583,222/- each. Automated camera Binocular microscope. Item Code:RAY-2000D digital microscope with 3.0MP resolution camera, Standard Outfit , Camera System:Inside Digital Camera System,3.0 M pixel CMOS Chip, Eyepiece: WF10X/20, Objective:Infinity plan Objective 4X , 10X , 40X , 100X, Nosepiece:Quadruple revolving mechanism with multiple ball bearing. Stage:Rectangular 188X150mm surface stage mounted on the main body.Cross travel 78X54mm using low-positioned X/Y coaxial control knob. Focusing:Coaxial Coarse & Fine Focus Adjustment, Condenser:Abbe condenser,NA1.25(aperture diaphragm with position guide marking for respective objectives). Illumination:12V-20W halogen lamp, lamp changeable by removing the Collector, unit. Brightness Adjustable, Image Outputs:USB2.0, Software: Micrometrics BE/SE / TWIN / DirectShow Source Filter / SDK, Options Camera System: 5.0 M pixel CMOS Camera System/ 1.3M pixel CCD Camera System/2.0 M pixel CCD Camera System, Nosepiece:Backward Quintuple Nosepiece, Condenser:Dark Field Condenser(Dry)/NA0.9/Dark Field Condenser(Oil)/NA1.25-1.36, Phase Contrast Set:Infinite Plan-Achromatic PH10X, PH20X(S), PH40X(S), PH100X(S, Oil), Turret Annular, Phase Contrast Condenser, Centering Telescope, Green Filter, Field Diaphragm:Collector with Field Diaphragm, Polarization Attachments:Simple Polarization Set, Company Name RAYLABEL	3 rd lowest	Accepted
4	M/S SuperCon, Enterprises, Hyderabad.	Rs.1,081,350/- each Model: BM-700, BOECO, Germany. Research Microscope with Trinocular Tube and 5.0 mega pixels CMOS HD camera, Software and Compatible computer with LED Monitor 19". Spare LED lamps, operating Manual and filters. Eyepiece camera is on abselete system.	4 th lowest	Accepted
5	M/S Al-Beruni Scientific Store Hyderabad.	Rs.1,190,000/- each. Microscope Demonstration Trinocular research with standard Trinocular head 45° inclined, 360° Rotatable with dual diopter adjustment for eye refraction differences, tube separation is adjustable from 54 to 74mm to conform with individual interpupillary distances attachable mechanical stage 75 x 30 mm X and Y with vernier reading to 0.1mm with four Plan objectives 4x/0.10 W.D 9.0mm, 10x/0.25 W.D 5.3mm, 40x spring/0.65W.D 0.5mm, 100x oil spring/1.25 NA and W.D. 0.1mm, pair of eyepieces 10x F.N 20mm wide field high point condenser Abbe type 2 lens precentered, a. 1.25 with Iris Diaphragm and filter holder with built in LED Illuminator Koehler and standard accessories, operated on 220 Volts MT-4000 Series. Model MT-4300L, Meiji Techno, Made in Japan	5 th lowest	Accepted

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9 Incubator. Incubator, 50 liters capacity 2-3 shelves adjustable Temp. Range +5 to 70°C, Digital display & control imported for Lab. purpose two door Memmert/ Cole Parmer/ Haeareus or imported equivalent.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- Incubator Forced-air Type Model: Thermostable IF-50, Daihan Scientific North America Inc.USA, <u>Specification:-</u> Capacity: 50 Lit., Dimension (w x d x h): Interior (mm): 370 x 350 x 419, Exterior (mm): 518 x 637 x 700, Heater Power: 200W, Temp. Range: Room Temp +5C to 70C, Net Weight (kg): 46, Packing Size 628 x 752 x 775 (w x d x h) (mm), Shipping Weight (kg): 58, Power Consumption: 216.3 W, Energy Consumption, at 37°C: 28Wh, at 50°C: 84Wh, Power Supply: 1 Phase 120V, 50Hz or 230V, 50/60Hz.	1 st lowest	Accepted
2	M/S ScienTec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Incubator, Microprocessor PID Controlled Dual Display Digital, Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	2 nd lowest	Accepted
3	M/S Al-Beruni Scientific Store Hyderabad.	Rs.350,000/- each Incubator Memmert Precision Interior & Exterior Stainless Steel Highly Sensitive microprocessor PID-temperature controller Extremely accurate ideal for all applications with temperatures ambient +5 degree to +70°C with Natural convection, digital LED- display of set and actual temperature, Double door Interior glass & Exterior stainless steel with integrated auto diagnostic system integrated digital timer (1 min. up to 99 h 59 min) Capacity 53 Lit Int interior Dimension 400 x 400 x 330mm, Complete with Two Stainless Steel Shelve Operated on 220volts Model INB-400, Memmert Made in Germany	3 rd lowest	Accepted
4	M/S Talha Enterprises, Karachi.	Rs.698,895/- each Incubator Cat # 51028133, Advance Protocol Incubator Model: IMH60, Convection technology Dual Convection, Temperature range °C, ambient +5 °C to 105 °C, Spatial temperature deviation at 37 °C ± 0.6 °C / ± 0.2 °C, Temperature deviation over time at 37 °C ± 0.1 °C, Footprint m2 / sqft: 0.3 / 3.2, Chamber volume L / cuft: 66 /2.3, Dimensions chamber, mm / in (WXHXD) 354 x 508 x 368 / 13.9 x 20.0 x 14.5, 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:850/ 3.7, Weight kg / lb: 45 / 99, Brochure Enclosed, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin:Germany	4 th lowest	Accepted







10 Deep Freezer 17-cu.ft. /500liters double door, colour white warranty: 1-year parts, 3-year compressor Dawlance, Waves, PEL or equivalent, with higher specification

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.55,000/- each. As per tender , Dawlance/Haier/Orient	1 st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs. 58,000/- each As per tender , Dawlance/Haier/Orient	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs. 82,000/- each Deep Freezer Waves, Size:18 CF, Voltage: 220V 50Hz, Refrigerant:1 34a CFC Free, Capacity: 478 Liters Approx, Net Weight: 90 Kg Approx, Dimensions: (HXWXDX)1600 x 610 x 876 mm, Warranty: 1 Year Parts + 3 Years Compressor	3 rd lowest	Accepted

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11 **Drying Oven**, General purpose. Heating and Drying Oven, Temp range – 50-250°C, 50-60 liters capacity on/off timer for operation, over temp alarm. Corrosion resistant stainless steel interior/exterior Flexible shelving system to optimize chamber. Application-glassware drying/dry sterilization Voltage-220V Two years warranty, Memmert, Fisher Scientific or exact equivalent

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- each Horizontal Flow Ovens, Forced-Air type, With Digital Fuzzy Control, Model: Thermo Stable OF-50, Daihan Scientific North America Inc:USA, <i>Technical Specifications:-</i> Capacity: 50 Lit. Interior Dimension Size: 370x345x420, (W x D x H)mm, Exterior Dimension Size: 518x647x724 (W x D x H)mm, Heater: 650W, Temp. Range: Ambient +5°C to 250°C, Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C, . Net Weight (kg) 44, Packing Size: (wxdxh) (mm) 622x754x807, Shipping Weight (kg) 59, Power Consumption: 674W, Energy Consumption, at100C 117Wh, at150C 230Wh, Electric Reqts: 120V, 60Hz or 230V, 50/60Hz.	1 st lowest	Accepted
2	M/S ScientTec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Oven Microprocessor PID Controlled Dual Display Digital, Capacity 54 litres Model: OFA-54 Make: ESCO, Singapore	2 nd lowest	Accepted
3	M/S Al-Beruni Scientific Store Hyderabad.	Rs.298,000/- each Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays, Temperature range 5°C above ambient up to +300°C, Single DISPLAY, natural convection, adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually, self-diagnostics for fault analysis, digital timer adjustable from 1 minute to 99 days, 23 hours, Multiple Over temperature Protection with audible and visual alarm, Interior Stainless Steel & Textured Stainless Steel Casing, Operated on 220volts, UN Series. Capacity 53 Lit, interior dimension: 400 x400x330mm with single stainless steel tray, Model UN-55, Memmert, Made in Germany	3 rd lowest	Accepted
4	M/S Talha Enterprises, Karachi.	Rs.458,257/- each Drying Oven, Cat # 51028139 General Protocol Oven Model: OGS60, Convection technology Gravity convection, Temperature range °C, ambient +50 °C to 250 °C, Spatial temperature deviation at 37 °C ± 4.4 °C, Temperature deviation over time at 37 °C ± 0.4 °C, Footprint m2 / sqft: 0.3 / 3.2, Chamber volume L / cuft : 65 / 2.3, Dimensions chamber, mm / in (WxHxD) 328 x 480 x 415 / 12.9 x 18.9 x 16.3, exterior*, mm / in (WxHxD) 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 1800 / 7.9, Weight kg / lb, 42 / 93, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin: Germany	4 th lowest	Accepted

12 Oven Sterilizer, Capacity 50-55 liters 400mm x 400mm x 330mm (WxHxD), Stainless steel (standard equipment) Max. Number of grids/shelves 4, Textured stainless steel exterior, Width 585mm, Height 784mm, Depth (without door handle), door + 56mm 514mm, Further data Electrical load at 230V, 50/60Hz, Working temperature range above ambient temperature to +300°C, Setting temperature range +20°C to 300°C

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- each Horizontal Flow Ovens, Forced-Air type With Digital Fuzzy Control Model: Thermo Stable OF-50 m Daihan Scientific North America Inc.USA <u>Technical Specifications:-</u> Capacity: 50 Lit. Interior Dimension Size: 370x345x420 (W x D x H)mm Exterior Dimension Size: 518x647x724 (W x D x H)mm Heater: 650W Temp. Range: Ambient +5°C to 250°C Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C, Variation: +1C at 100C, +1.8C at 150 Sensor: PT100 Display: Digital LCD Display with Back-Light Timer: 99hr 59min (Delay & Continuous Function) Material Internal: Stainless Steel (#304) Material External: Powder Coated Steel Material Insulation: Glass Wool Shelves: 2ea of Stainless Steel Wire Shelves included Load per Shelf:16kg Ventilation: Ventilation hole with Stainless steel Cap. Hole Diameter 40mm 1ea Net Weight (kg) 44 Packing Size: (WXDXH) (mm) 622x754x807 Shipping Weight (kg)59 Power Consumption: 674W Energy Consumption, at100C 117Wh at150C 230Wh Electric Reqts: 20V, 60Hz or 230V, 50/60Hz.	1 st lowest	Accepted
2	M/S Scientec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Oven, Microprocessor PID Controlled Dual Display Digital Capacity 54 litres Model: OFA-54 Make: ESCO, Singapore Rs.298,000/- each Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays, Temperature range 5°C above ambient up to +300°C, Single DISPLAY, natural convection, adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually, self-diagnostics for fault analysis, digital timer adjustable from 1 minute to 99 days, 23 hours, Multiple Over temperature Protection with audible and visual alarm, Interior Stainless Steel & Textured Stainless Steel Casing, Operated on 220volts, UN Series, Capacity 53 Lit, interior dimension: 400 x400x330mm with single stainless steel tray, Model UN-55, Memmert, Made in Germany	2 nd lowest	Accepted
3	M/S Al-Beruni Scientific Store Hyderabad.	Rs.738,652/- each Oven Sterilizer Cat # 51028544, Advance Protocol Security Oven, Model: OGH60-S-SS, Convection technology Gravity convection, Temperature range °C +50 °C to 330 °C, Spatial temperature deviation at 150 °C ± 2.5 °C, Temperature deviation over time at 150 °C ± 0.3 °C, Footprint m2 /sqft 0.3 / 3.2, Chamber volume L / cuft 65 / 2.15, Dimensions chamber, mm / in (WXHXD) 328 x 480 x 389 / 12.9 x 18.9 x 15.3, exterior*, mm / in (WXHXD) 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 1810 / 7.9, Weight kg / lb 44 / 97, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin: Germany Warranty: 12 Months	3 rd lowest	Accepted
4	M/S Talha Enterprises, Karachi.	Rs.738,652/- each Oven Sterilizer Cat # 51028544, Advance Protocol Security Oven, Model: OGH60-S-SS, Convection technology Gravity convection, Temperature range °C +50 °C to 330 °C, Spatial temperature deviation at 150 °C ± 2.5 °C, Temperature deviation over time at 150 °C ± 0.3 °C, Footprint m2 /sqft 0.3 / 3.2, Chamber volume L / cuft 65 / 2.15, Dimensions chamber, mm / in (WXHXD) 328 x 480 x 389 / 12.9 x 18.9 x 15.3, exterior*, mm / in (WXHXD) 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 1810 / 7.9, Weight kg / lb 44 / 97, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin: Germany Warranty: 12 Months	4 th lowest	Accepted







13 Gas Cylinder (10kg) tubing, regulator and Bunsen burner.

No firm offered the rate and technical specification

14 **Tabletop centrifuge machine** Capacity: 7-15ml x 6-8 tubes, speed-300-6000rpm without changing rotor speed and Time adjustable, speed liner and stable autobalancing system, Power supply 220V/50/60hz, quality certification ISO9001, ISO 13485UK/USA/Germany or exact equivalent

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Al-Beruni Scientific Store Hyderabad.	Rs.169,000/- each Centrifuge Machine, digital control over speed & time, Maximum speed up to 6,500 rpm 4,000 xg with safety, lock-lid will not open with rotor in motion. Technical Specification: Speed range:300 to 6,500 rpm, Max. RCF:4,000xgm Max. Capacity:6 x 15ml Conical, Timer:0.5 to 30 minutes or continuous, with momentary option, Complete unit with rotor, Model Spectrafuge 6C, Labnet International, Inc. Made in USA.	1 st lowest	Accepted
2	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.171,990/- each Micro Prime Centrifuge Model: C1015 CENTURION SCIENTIFIC LTD., UK <i>Technical Specifications:</i> Speed: 500-15,000 Rpm (10 Rpm steps) Rcf Max: 22,000 G, Supply: 230V, 50/60Hz <i>Complete With:</i> Small Fixed Angle Rotor, Cat. No: BRK5408 Rotor type: 8 x 15ml, Maximum Speed Rpm: 6,000 Maximum Rcf (G): 3,400, Autoclavable (frequency): 121°C (10)	2 nd lowest	Accepted
3	M/S Talha Enterprises, Karachi.	Rs.435,240/- each Tabletop Centrifuge Machine, Cat # 75008800 Bench Top, Centrifuge, Model: Medifuge, Maximum Capacity 8 x 15ml (fixed, angle) 8 x 10ml (swinging bucket), Maximum Speed 300-4,900 rpm, adjustable in increments of 100 rpm, Maximum RCF 3,114 x g (fixed angle) 3,490 x g (swinging bucket), Time Setting 1-99 minutes, in increments of 1 minute; HOLD, Temperature Range 2°C to 40°C, Control System Microprocessor, User Interface Large, brightly-lit LED display, Program Memory 4 Acceleration Profile 1 (standard), Deceleration Profiles 3 (standard, soft, brake-off) Acceleration/Deceleration Rates* 24/37 seconds (fixed angle), 24/31,seconds (swinging bucket), Noise Level <56 dBA (swinging bucket), Power Consumption 100-130 W, voltage dependent Dimensions (H x W x D) 240 x 325 x 450 mm (9.45 x 12.79 x 17.72 in), Weight 15.5 kg (34.1 lb), Standards IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485, Certifications UL, CE, RoHS, CSA, IVD, FDA class 1, Included, - Dual Spin rotor body, - Fixed angle buckets (set of 8), - Swinging buckets (set of 8), - Green/short spacers (set of 8), - Yellow/long spacers (set of 8), Manufacturer Thermo Electron LED GmbH Langenseld bold Germany, Country of Origin: Germany Warranty: 12 Months	3 rd lowest	Accepted

15 **Solar Driven Refrigerator**, Solar powered, solar panel, battery and 15AM charge controller, Gross vol 50L (1.8cuft) cabinet type- chest, direct cooling, Ambient temp- 43°C, Defrost – Manual, Refrigerant – CFC, Temp Range- <-5°C, Microprocessor controller, temp display baskets-2, WHO/PQS certified.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	<p>M/S Scientific Technical Corporation (Ltd.) Lahore.</p>	<p>Rs.1,131,975/- each Solar Driven Refrigerator Model: VLS 054 SDD GREEN LINE Make: Vestfrost Solutions-Denmark SOLAR DIRECT DRIVEN REFRIGERATOR SPECIFICATIONS: Gross volume, litres (cu. ft.): 108 (3.81), Net volume, litres (cu. ft.): 55.5 (1.95), Temperature range (43°C AMB): +2° to +8°C, Climate Zone: Hot, Autonomy, hours: 72.4, Hold-over time, hours: 78.2, Refrigerant: R600a, WHO PQS code: E003/041, Freeze protection, grade: A, Min. solar radiation, kWh/m²/day: 3.5 Voltage, V Dc: 12 DIMENSIONS Height, mm (inches): 850 (33.46) Width, mm (inches): 720 (28.34) Depth, mm (inches): 600 (23.62) Depth w. handle/hinges, mm (inches): 700 (27.55) Gross weight, kg (lbs): 85 (187.39) Net weight, kg (lbs): 65 (143.30) LOADING QUANTITIES Qty. per 20' / 40' container / Qty. per truck (EU standard) WHO PQS approved, ISO 9001, 14001 & 18001 OHSAS Certified.</p>	<p>Single bid</p>	<p>No competition, the price quoted by bidder is higher than PC-1 price, market price is not available, item was not tendered during last financial year, therefore the price is not comparable. Hence, rejected for retender.</p>





Purchase of Furniture/Fixture

1 Drawers in lab. Sections 7"x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S SuperCon, Enterprises, Hyderabad.	Rs.46,272/- each 7"x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.	1 st lowest	Accepted
2	M/S A.J. Enterprises, Karachi.	Rs.94,750/- each Drawers In Lab Sections Size 7' x 2'-10" x 2'-5", Made of Aluminum frame 1" x 2" under the panel aluminum, four draws in high quality on ball barring channel. Draw material MDF high density fiber board along with Imported locks and Handles. Four caster inside the Drawers.	2 nd lowest	Accepted
3	M/S Talha Enterprises, Karachi.	Rs. 135,000/- each unit Drawers in lab. Sections 7"x2'. 10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawer, high quality sliding glass, lock and handle	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 150,000/- each As per specification and measurement further, high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guarantee one year part change.	4 th lowest	Accepted

2 Fixture in Administrative/ Account Block, 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S SuperCon, Enterprises, Hyderabad.	Rs. 81,077/- each 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle	1 st lowest	Accepted
2	M/S Burraq Business Corporation, Hyderabad.	Rs. 185,000/- each As per specification and measurement further, high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. Different color glass frosted paper also with wall paper on back wall inside showcase. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guaranteee/ Shelf life one year part change.	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs.227,550/- each Fixture In Administrative Block Size 7' x 8' x 1'-6" (LxHxD), Superior Quality Aluminum frame space between draws 22" high quality sliding glass lock and handles imported	3 rd lowest	Accepted
4	M/S Talha Enterprises, Karachi.	Rs.265,000/- each Fixture in Administrative Account Block, 7'x8'x1'.6" (LxHxD) Aluminum, Frame space between drawer 22" high quality sliding glass lock and handle.	4 th lowest	Accepted

3 Fixture in Administrative Block, 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S SuperCon, Enterprises, Hyderabad.	Rs.34,747/- each 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.	1 st lowest	Accepted
2	M/S A.J. Enterprises, Karachi.	Rs.98,750/- each Fixture In Administrative Block Size 4' x 6' x 1'-6" (LXHXD), Superior Quality Aluminum frame space between draws 22" high quality sliding glass lock and handles imported.	2 nd lowest	Accepted
3	M/S Talha Enterprises, Karachi.	Rs.135,000/- each Fixture in Administrative Block, 4'x6'x1'.6" (LxHxD) Aluminum frame , space between drawer 22" high quality sliding glass lock and handle .	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyderabad.	Rs.135,000/- each As per specification and measurement further; high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. Different color glass frosted paper also with wall paper on back wall inside showcase. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guarantee/Shelf life one year part change.	4 th lowest	Accepted

4 Visitor's benches, stainless steel heavy duty three seaters for reception counter with back & arm rests.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S SuperCon, Enterprises, Hyderabad.	Rs.15,240/- each Stainless steel heavy duty three seaters for reception counter with back & arm rests.	1 st lowest	Accepted
2	M/S A.J. Enterprises, Karachi.	Rs.17,750/- each Visitor Benches. Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.	2 nd lowest	Accepted
3	M/S YJW Trading Corporation, Hyderabad.	Rs.19,500/- each As per tender	3 rd lowest	Accepted
4	M/S Duke Traders, Hyderabad.	Rs21,500/- each As per tender	4 th lowest	Accepted
5	M/S Burraq Business Corporation, Hyderabad.	Rs.25,000/- each As per tender specification.	5 th lowest	Accepted







Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
5.	Office Table with side rack small Wooden table of size 2'x3'x2'6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plyboard side rack of 3'x1'6"x1'4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plyboard.	three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plyboard side rack of 3'x1'6"x1'4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plyboard.		
1	M/S Burraq Business Corporation, Hyderabad.	Rs. 10,000/- each As per tender specification.	1st lowest	Accepted
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 11,700/- each As per tender	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs. 11,750/- each Office Table With Siderack, Wooden Table Size 3' x 2' x 2 1/2'. Top made in Lamination of Approved Color. Having three Draws on right side of the Table. Side rack size 3' x 1 1/2' x 16" of the same material of Table with Sliding Window, and Draws as provisional as per Approved Design.	3 rd lowest	Accepted
4	M/S Duke Traders, Hyderabad.	Rs. 15,000/- each As per tender	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs. 21,590/- each Wooden table of size 2'x3'x2'6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial ply board side rack of 3'x1'6"x1'4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial ply board.	5 th lowest	Accepted





6	Computer table 1. size: 120cm * 60cm * 75cm, for sides, vertical, bottom, door and back made of 18mm prelaminate particle board. 2. Top table finished with prelaminate particle board and edge banding with same colour PVC tape. 3. One drawer 40* 50* 18cm size, one cupboard with shelf, CPU stand, Foot Rest, key board tray fitted with necessary fittings such as wire/cable manager, auto closing hinges, stainless steel handle, multipurpose lock, sliders, necessary bushes etc. with fully closed back panel.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs. 9,800/- each As per tender	1 st lowest	Accepted
2	M/S A. J. Enterprises, Karachi.	Rs. 11,250/- each Computer Table Standard Size, Specification as per Tender Documents.	2 nd lowest	Accepted
3	M/S Duke Traders, Hyderabad.	Rs. 11,500/- each As per tender	3 rd lowest	Accepted
4	M/S SuperCon, Enterprises, Hyderabad.	Rs. 12,700/- each Size: 120cm * 60cm * 75cm, for sides, vertical, bottom, door and back made of 18mm prelaminate particle board. Top table finished with prelaminate particle board and edge banding with same colour PVC tape. One drawer 40* 50* 18cm size, one cupboard with shelf, CPU stand, Foot Rest, key board tray fitted with necessary fittings such as wire/cable manager, auto closing hinges, stainless steel handle, multipurpose lock, sliders, necessary bushes etc. with fully closed back panel.	4 th lowest	Accepted
5	M/S Burraq Business Corporation, Hyderabad.	Rs. 15,000/- each As per tender specification.	5 th lowest	Accepted





7	<p>Computer chair.</p> <ol style="list-style-type: none"> 1. Seat & Back of the computer chair shall be made of plywood upholstered with fabric and moulded polyurethane foam. 2. Mid Back size shall be 45 (W) x 53cm (H) and Seat size shall be 50 (W) and 48cm (D). (Minor variations will be accepted) 3. To be moulded with density = 45+2kg/m³ and Hardness at 25% compression. 4. Armrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S insert. 5. Should have 360 degrees revolving facility, back tilt facility & Upright position locking facility. 6. The pedestral is to be fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection molded black polypropylene hub cap and 5 Nos. twin wheel castors (Cstor wheel dia 5.0cm)
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.6,200/- each As per tender	1st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.6,900/- each As per tender	2 nd lowest	Accepted
3	M/S SuperCon, Enterprises, Hyderabad.	Rs.9,652/- each Seat & Back of the computer chair shall be made of plywood upholstered with fabric and moulded polyurethane foam. Mid Back size shall be 45 (W) x 53cm (H) and Seat size shall be 50 (W) and 48cm (D). (Minor variations will be accepted). To be moulded with density = 45+2kg/m ³ and Hardness at 25% compression. Armrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S insert. Should have 360 degrees revolving facility, back tilt facility & Upright position locking facility. The pedestral is to be fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection molded black polypropylene hub cap and 5 Nos. twin wheel castors (Cstor wheel dia 5.0cm).	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyderabad.	Rs.10,500/- each As per tender specification.	4 th lowest	Accepted
5	M/S A.J. Enterprises, Karachi.	Rs.10,750/- each Computer chair standard size, Specification as per Tender Documents.	5 th lowest	Accepted

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8	White board 6'x4' presentation board. High quality glass Marker board 4'x6' white starphire 1/4" tempered glass with polished edges, back painted, wall mounting 1" dia aluminum stand offs.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S Burraq Business Corporation, Hyderabad.	Rs.5,000/- each As per tender specification.	1 st lowest	Accepted
2	M/S YJW Trading Corporation, Hyderabad.	Rs.9,800/- each As per tender	2 nd lowest	Accepted
3	M/S Duke Traders, Hyderabad.	Rs.10,800/- each As per tender	3 rd lowest	Accepted
4	M/S A.J. Enterprises, Karachi.	Rs.12,750/- each White Board 6' x 4' Presentation Board, Specification as per Tender Documents.	4 th lowest	Accepted

9	Steel Almirah. Size 6'x 3' 1'.6" (HxWxD) 22guage for body and 20guage for doors, four shelves making 5 compartment, three way botting device with tongu in goove inter locking mechanism with lever lock. Handle made of non ferrous metal alloy, chrome plated, Almirah painted with synthesize enamel paint.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.12,700/- each As per tender	1 st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.14,800/- each As per tender	2 nd lowest	Accepted
3	M/S Burraq Business Corporation, Hyderabad.	Rs.16,500/- each As per tender specification.	3 rd lowest	Accepted
4	M/S A.J. Enterprises, Karachi.	Rs.16,750/- each. Steel Almirah Size 6' x 3' x 1 1/2' (HXWXD) , Specification as per Tender Documents.	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.19,050/- each Size 6' x 3' 1'.6" (HxWxD) 22guage for body and 20guage for doors, four shelves making 5 compartment, three way botting device with tongu in goove inter locking mechanism with lever lock. Handle made of non ferrous metal alloy, chrome plated, Almirah painted with synthesize enamel paint.	5 th lowest	Accepted

M. A. J. Enterprises

Accepted

M. A. J. Enterprises

10	Laboratory Stool steel body hydraulic. Steel or equivalent durable quality, height adjustment pneumatic, with level press, smooth transition, pivoted back rest, seat and back rest with good quality foam of phyurethane or better, foot rest ring shaped wheel/casters for movement.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S A.J. Enterprises, Karachi.	Rs.7,750/- each Laboratory Stool Steel Body, Specification as per Tender Documents.	1st lowest	Accepted
2	M/S YJW Trading Corporation, Hyderabad.	Rs.8,500/- each As per tender	2 nd lowest	Accepted
3	M/S SuperCon, Enterprises, Hyderabad.	Rs.8,890/- each Steel or equivalent durable quality, height adjustment pneumatic, with level press, smooth transition, pivoted back rest, seat and back rest with good quality foam of phyurethane or better, foot rest ring shaped wheel/casters for movement.	3 rd lowest	Accepted
4	M/S Duke Traders, Hyderabad.	Rs.9,500/- each As per tender	4 th lowest	Accepted
5	M/S Burraq Business Corporation, Hyderabad.	Rs.10,400/- each As per tender specification.	5 th lowest	Accepted

11	Office table medium size with side rack. Wooden table of size 4'x2'.6" x 2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial ply board side rack of 3"x1'.6"x1'.4" (LXHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial ply board.
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Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S A.J. Enterprises, Karachi.	Rs.14,750/- each Office Table Medium Size With Side Rack, Wooden Table Size 4' x 2 ½' x 2 ½'. Top made in Lamination of Approved Color. Having three Draws on right side of the Table. Side rack size 3' x 1 ½' x 16" of the same material of Table with Sliding Window, and Draws as provisional as per Approved Design.	1st lowest	Accepted
2	M/S YJW Trading Corporation, Hyd	Rs.14,800/- each As per tender	2 nd lowest	Accepted
3	M/S Duke Traders, Hyderabad.	Rs.18,900/- each As per tender	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyd.	Rs.21,000/- each As per tender specification.	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.34,290/- each Wooden table of size 4'x2'.6" x 2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plywood side rack of 3"x1'.6"x1'.4" (LXHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plywood.	5 th lowest	Accepted

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12 Office Chair wooden standard quality. Wooden armed office chair of sheesham wood, can seat and back finished with sprit polish.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.2,200/- each As per tender	1st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.3,200/- each As per tender	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs.4,750/- each Office Chair Wooden Standard Size, Wooden armed office chair of sheesham wood, Cane Knitting seat and back finished with Spirit polish.	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyderabad.	Rs.5,300/- each As per tender specification.	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.5,842/- each Wooden standard quality, wooden armed office chair sheesham wood, can seat and back finish with sprit polish.	5 th lowest	Accepted

13 Almirah with glass door. Steel glass door Almirah of size 78"x36"x15" (4mm glass) having 5 compartments, 22guage with locking arrangement and complete in all respect.

Sr. #	Name of firm	Rate and technical Specification of the firm	Ranking in Terms of cost.	Reason for acceptance/ Rejection.
1	M/S YJW Trading Corporation, Hyderabad.	Rs.15,900/- each. As per tender	1st lowest	Accepted
2	M/S Duke Traders, Hyderabad.	Rs.16,800/- each As per tender	2 nd lowest	Accepted
3	M/S A.J. Enterprises, Karachi.	Rs.17,750/- each. Almirah With Glass Door Size 78" x 36" x 15", Specification as per Tender Documents.	3 rd lowest	Accepted
4	M/S Burraq Business Corporation, Hyderabad.	Rs.19,500/- each. As per tender specification.	4 th lowest	Accepted
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.21,590/- each. Steel glass door Almirah of size 78"x36"x15" (4mm glass) having 5 compartments, 22guage with locking arrangement and complete in all respect.	5 th lowest	Accepted

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Comparative Statement of Tender for Procurement of "Hardware, Laboratory Machinery & Equipment and Furniture/Fixture" for The Directorate of Veterinary Research & Diagnosis CVDL Tando Jam during the financial year 2016-2017.




Nine (09) firms purchased and participated in the tender:

1	M/S Talha Enterprises, Karachi.
2	M/S Al-Beruni Scientific Store Hyderabad.
3	M/S Scientific Technical Corporation (Ltd.) Lahore.
4	M/S ScienTec, Karachi.
5	M/S Duke Traders, Hyderabad.
6	M/S YJW Trading Corporation, Hyderabad.
7	M/S A.J. Enterprises, Karachi.
8	M/S Burraq Business Corporation, Hyderabad.
9	M/S SuperCon, Enterprises, Hyderabad.


(DR. Parkash Dewani)
Senior Research Officer
Directorate of Veterinary Research & Diagnosis
CVDL Sindh, Tando Jam


(Ghulam Mustafa)
Senior Auditor
Representative of
District Accounts Office, Hyderabad


(Dr. Aslam-Pervez Umrani)
Director General
, Livestock (Extension/Research)
Sindh, Hyderabad.

Purchase of Hardware.

Computers and Printers with all accessories as below or higher specification.

1. **Desktop computer** Intel, core i5, 5th generation processor or higher specification, complete with Microsoft Windows 10 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i7, 6th generation, Processor speed 4.2GHZ, 8GB RAM, Hard drive: 500GB SATA-III hard drive, DVD optical drives: read and write Dual layer, SATA 24 ASUS Graphics: Shared Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. **Operating system and software, Monitor full HD 21"**

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 BMW 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Duke Traders, Hyderabad.	Rs. 149,000/- each Desktop computer core i5 processor, complete with Microsoft Windows 7 professional or above Genuine System and life time antivirus, CPU and Memory: Intel Core i5 6 th generation 15.4460. One year local warranty.	
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 145,000/- each. Desktop computer Led core i5 5 th Generation processor, one year local warranty, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i5 6 th Generation 15-4460, Processor speed 4.2GHZ, 8GB RAM, Hard drive: 500GB SATA-III hard drive, casing tower ATX (Legend/DVD optical drives: read and write Dual layer, Graphics: Shared, Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. Operating system and software, Monitor LED 19" AOL. Extras : Dust cover ,Headphone etc, 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 BMW 19ppm, First page speed 8.5secs Pages per Month. 5000 Pages Paper type A4/letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension, 13.74x9.38x7.71, One year local warranty	
3	M/S A.J. Enterprises, Karachi.	Rs. 177,000/- each Processor: Intel Latest 6 th Generation Core i7-6700 (3.4GHZ, 4C, 8T), Chipset: Intel Q170 Latest Memory: 8GB DDR-4, supporting upto 32GB DDR4-2133 SDRAM, Hard Disk: 500GB SATA Hard Disk, Graphic: Intel HD Graphic integrated, Expansion Slots: 1 full height PCIe x16, 1 full height PCIe x16 (wired x 4), 1 full height PCIe x1, 1 full height PCI, 1 M.2 (22x80mm), Ports: 10 External USB: 6 x 3.0 (2 front/4 rear) and 4 x 2.0 (2 front/2 rear - 1 front with PowerShare); 1 Internal USB 2.0; 1 RJ-45; 1 Serial; 2 Display Port 1.2; 1 HDMI 1.4; 2 PS/2; 1 UAJ, Micro: 6 External USB3.0 (2 front/4 rear - 1 front with PowerShare); 1 RJ-45; 1 HDMI 1.4; 1 Display Port 1.2; 1 UAJ (front); 1 Line-out(front); Chassis & PSU: Standard 240W PSU Active PFC, 240W typical 85% Efficient PSU (80 PLUS Bronze) ENERGY STAR complaint; Active PFC, 240W typical 92% Efficient PSU (80 PLUS Platinum); ENERGY STAR complaint; Active PFC, Keyboard & Mouse: Standard USB Keyboard & Mouse; DVD-RW: DVD-RW provided, Display: LED 21.5" Dell, Operating System: Windows 10 Professional, PRINTER: HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer	

M/S A.J. Enterprises

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Purchase of Laboratory Machinery & Equipment.

1 Glass distillatory Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V UK, USA, Germany OR Exact equivalent standard.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.1,098,342/- each Item Code W4000, Glass construction with long life metal heating element, Two independent safety thermostats, Wall mountable	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.72,000/- each Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V Imported.	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.84,240/- each Water Distillation Apparatus Model: BMS-4CE China, Specifications: Capacity: 4litre/hour. Power: 220VAC. 50/60Hz.	
4	M/S Scientec, Karachi.	Rs.80,000/- each Water Distillation unit (single Distillation), Output 4 Liters/Hours, Model: 3361, Make: Borosil	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.337,770/- each Model: DEST-4, BOECCO Germany.	







2 Autoclave 25 liters capacity, top loading, Temp range 5-132°C, Accuracy $\pm 0.5^\circ\text{C}$ @ 121°C, digital display, timer Heater 2KW, pressure 1.2kg/cm stainless steel, electronic door lock sensing, safety devices for temp, pressure, 02 wire basket U.K/ Germany/ Japan or imported equivalent.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.472,132/- each Autoclave 25 liters capacity, Item Code RAY-LS-30SII, PRODUCT BACKGROUND: Technical Parameters: Model: RAY-LS-30SII, Volume: 30L, Rated working temperature: 133, Rated working pressure: 0.145MPa, Power Consumption: 2KW, Power supply: 220V 10%/50Hz 2%, DIM. Exterior (mm): 394*394*800, DIM. Interior (mm): 300*400, DIM. Basket (mm): 280*360 *1 pc, Company Name RAYLABEL, Imported	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.74,000/- each Capacity 24Litre, Model YX-24LM, China	Not qualified, Capacity lower than desired
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.833,625/- each Digital Fuzzy-control Autoclave With Steam Condensing Mechanism, Model:MAXTERILE-60, Daihan Scientific North America Inc:USA, Specifications: Standard Type, Capacity:60 Lit., Temp. Range & Accuracy: Room +5°C to 132°C, +0.5°C at 121°C, Pressure & Gauge: 1.2 kgf/cm ² at 121°C / 2.0 kgf/cm ² at 132°C, 0 ~ 3 kgf/cm ² , Sterilization mode: Solid- or Liquid-mode, Heating Power/Consumption: 3 kW, Timer & Alarm: 60 min, Error status & Timer-end, Display: Digital LCD with Back-Light Function, Controller: Digital Fuzzy-Control System (Fully Automatic), Door & Closing System: Lever-type Sliding Door / Safety Electronic Door Closing System, Safety Circuit: Over-Temp./-Pressure/-Current protection, Sensor Error Detection, Printer: Thermal type printer, Record Paper Roll:w58 x Ø40mm, Material: Stainless steel (#304)-Pressure Vessel, Powder Coated steel-External, Basket: 2ea of Stainless steel Wire Baskets are Included, Basket Dimension (mm): Ø320 x h240, Dimension (W x D x H) Inner (mm): Ø350 x h650, Dimension (W x D x H) Outer (mm): 680 x 470 x 900, Packing Size: (mm) 840x610xh1252mm, Gross Weight (kg): 120 kg, Power Supply: AC 230V, 50/60Hz	
4	M/S Scientec, Karachi.	Rs.399,000/- each Autoclave, 50 Ltr, Model: FD50A, Make: SysTech,(Autoclave & Sterilizers)	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.1,336,500/- each Model : BTE-23D, BOECO, Germany. Technical Specification: Chamber size: dia 247x460mm (23 liters) Power: 220V 50Hz, Complete with standard accessories, including built in printer.	Not qualified, Capacity lower than desired





3	<p>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters with PC, Printer software and operation manual, reading 96 well plates on board, software 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, USA/UK/Germany or Exact Equivalent Imported. 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 50-1000ul, Dispense volume 50-400ul 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, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p> <p>c) Computer with i5, Intel mother board and processor 4.2GHZ, 8MB RAM.</p> <p>d) Dot matrix printer, Impact dot matrix printing method, 24 pins, 80 columns, 24 needles, USB interface High speed-draft 10cpi:347 chars/sec, 360x80DPI printing resolution window 2000, window 7, window 8, window vista and window XP, memory 128KB, compatible operating system, software CD, user manual and warranty 1-year EPSON, or exact equivalent.</p>	
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	<p>ELISA Reader, Washer, computer and printer. Rs.2,565,000/- each set</p> <p>A). Absorbance Microplate ELISA Reader Model: ELX800 CE Certified with 04 Built in Filters: 405,450,490,630 mm, Detection method Absorbance, Read method, Endpoint Kinetic and well area scanning via computer control, Microplate types: 6-, 12-, 24-, 48-, 96-well microplates, 384- and 607/2196-well Terasaki plates (NB option), Software: Gen5 Data Analysis Software (optional) Onboard software, 55 user-programmable protocols, Light source, Tungsten Halogen Wavelength selection, Filters, Wavelength range, 400 to 750 nm 340 to 750 nm (UV option) Bandpass, 10 nm, Dynamic range, 0 to 3.0 OD, Resolution, 0.001 OD, Filter wheel capacity 5 positions, Filters supplied, 4 filters (5 with UV option), OD accuracy, <1% at 2.0 OD typical, OD linearity, <1% at 2.0 OD typical, <3% at 3.0 OD typical, OD repeatability, <0.5% at 2.0 OD typical Reading speed, 30 secs single wavelength, Power: 100-240 V_{ac} 50/60 Hz: Dimensions: 16.5"D x 15"W x 7"H (41.9 x 38.1 x 17.8 cm), Weight, 18.5 lbs (8 kg), Regulatory, IVD (In Vitro Diagnostics) Directive. All BioTek microplate instrumentation is CE and ETL marked. For details on approvals and standards compliance, please contact BioTek, Manufacturer: Biotek Instruments INC USA</p> <p>B). Microplate ELISA Washer Model: ELX50/8 CE Certified Microplate Types: Flat-bottom 96-well plates, low profile and standard height Manifolds Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300ul/well, 96-well (16-channel) Operating 15C to 40C Biomagnetic Separation No. Wash Cycles: 1 to 10 Sterilization (Washing) Chemical: 70% Ethyl or Isopropyl Alcohol and 0.5% Sodium Hypochlorite Solution Volume Range: 25 to 3000ul/well Fluid Delivery: Internal positive displacement syringe pump Buffer Selection: Optional switching of up to 3 wash buffers Dispense Precision: < 3% CV Residual Volume: ≤ 2ul/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 Manufacturer: Biotek Instruments INC USA, Supplier: Biotechnology Medical Services Europe Country Origin: USA</p> <p>C). Computer with i5, Intel mother board, And Processor 4.2GHZ, 8MB RAM.</p> <p>D). Dot Matrix Printer HP.</p>	

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Sr. #	Name of firm	Technical Specification of the firm	Remarks
2	M/S Scientific Technical Corporation (Ltd.) Lahore.	<p>ELISA Reader, Washer, Computer and Printer Rs.1,070,550/- each set.</p> <p>A). Absorbance Reader, 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 96-well plates, 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: 405nm, 450nm, 490nm, 630nm, 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, 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), Regulatory Regulatory: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant.</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, Microplate Types: 96 well, Maintenance: Pre-programmed maintenance routines, Onboard Software: Create, edit or run multiple protocols, Operating Temperature: 15°C to 40°C (59° to 104° F), Humidity: 10% to 85%, non-condensing, Electrical: Compatible with 100 to 240 V ~ ± 10% @ 50-60 Hz, 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, Sterilization: Chemical: 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution, 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), Regulatory Regulatory: CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.</p> <p>C). PC & Printer</p> <p>D). 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), • 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>	

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4	Research Microscope. Nikon, Olympus, Labomed, Kyowa, Medilux (Stand, Single mold sturdy stand with anti-rust materials. Viewing Bodies. Binocular head 30° inclined, 360°c rotatable dovetailis. Interpupillary distance 48-75mm, Eyepieces. Wide field focusable eyepieces 10x/20mm with foldable eye guard, rackable, antifungal Nosepiece Quadruple Nosepiece (Ball reserve angle bearing type) with rubber grip. Objective Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Size 200 x160mm, Rackless X-axis, double plate stage. X/Y travel range 78mmx54mm, low drive movement controls, double specimen holder. Hard coated surface for scratch resistance. Condenser Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with 32mm blue day light filter Rack and pinion movements on stainless steel guides Focusing. Co-axial coarse and fine focusing on ball drive system for smooth operation. Illumination. Halogen 6V-30W or LED (built in interchangeable battery) illumination with Variable Illumination control. Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals Universal input 100V-240V AC, 50/60Hz Built in voltage stabilizer. Accessories. 10x, 40xs & 100x, objectives Immersion oil & dust cover. Microscope eye piece camera USB 2.0 output 3.2M/ Resolution 048x1536x110mm (H) x55mm (D) Adapter Universal: 23mm/30mm/ 30.5mm Sensor: 1/2" Enhanced Color CMOS & capture soft ware. Objectives Immersion oil & dust cover. UK/USA/Japan/Germany), or equivalent or higher specification	
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.531,300/- each Model BXTV-1C Company Name BIOBASE	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.1,190,000/- each Microscope Demonstration Trinocular research with standard Trinocular head 45° inclined, 360° Rotatable with dual diopter adjustment for eye refraction differences, <i>tube separation</i> is adjustable from 54 to 74mm to conform with individual interpupillary distances attachable mechanical stage 75 x 30 mm X and Y with vernier reading to 0.1mm with four Plan objectives 4x/0.10 W.D 9.0mm, 10x/0.25 W.D 5.3mm, 40x spring/0.65W.D 0.5mm, 100x oil spring/1.25 N.A and W.D. 0.1mm, pair of eyepieces 10x F.N 20mm wide field high point condenser Abbe type 2 lens precentered N.a. 1.25 with Iris Diaphragm and filter holder with built in LED Illuminator Koehler and standard accessories, operated on 220 Volts MT-4000 Series, Model MT-4300L, Meiji Techno, Made in Japan	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.429,975/- each. Binocular Research Microscope , Model: Lx 500, , With Microscope eye piece Camera , Cat No. 9144700, LABO AMERICA INC., USA.	
4	M/S Scientec, Karachi.	Rs.458,060/- 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-LED ₂ system with adjustable intensity. Camera: 8MP digital camera with optical adapter & Measuring software, 2.4" LCD display.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.996,300/- each Model: BM-700, BOECCO, Germany, Research Microscope with Trinocular Tube and 5.0 mega pixels CMOS HD camera, Software and Compatible computer with LED Monitor 19". Spare LED lamps, operating Manual and filters. Eyepiece camera is on abselete system.	

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5 Refrigerator upright 500 liters (17.5cfu). Refrigerator + 4°C, Top mount freezer, one shelf, Refrigerator – 3 shelves, Warranty one year parts, 10 years compressor, Dawlance, Haier, PEL, Waves, or equivalent.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Duke Traders, Hyderabad.	Rs.859,000/- each As per tender Dawlance/ Haier/ Orient	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.85,000/- each. As per tender Dawlance/ Haier/ Orient	

6 Air-Conditioner 1.5 ton window with installation and iron grill., Cooling Capacity: 1.5ton, Compressor: Piston, Refrigerant: R-22, Electrostatic filter, Temperature control, Remote control Digital, Anti corrosion body Deodouring filter. General, National/LG or equivalent or higher specification

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Duke Traders, Hyderabad.	Rs.93,500/- each As per tender Dawlance/ Orient/ Haier	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.89,500/- each. Air conditioner 1.5 ton Split with Installation, Dawlance/Orient/Haier	
3	M/S A.J. Enterprises, Karachi.	Rs.109,500/- each Capacity (Ton): 1.5, Cooling capacity:5,120, 17,500, Moisture Removal: 2.0, Air flow – High:940, 554, Power supply: 220-240 / 1 / 50, Running Current:8.4, Power Consumption: 1800, EER: 2.84, Dimensions H x W x D: 455 x 670 x 710, Net Weight: 53, Operating Temperature: 60°C, Refrigerant: R22, Compressor, Advanced Hyper Tropical Rotary Warranty: 01 Year	

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7 Digital balance electricity/ battery operated 0.01g readability 500g capacity, stainless steel pan, Germany, USA, UK, Japan or equivalent imported.

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.145,000/- each Digital Balance Item Code:RAY-5002, LCD display, Pan Size : Φ 125, Weighing Capacity(g):500, Readability(g):0.01, Repeatability (\leq g): } 0.01, Linearity(\leq g): }0.02, Gross Weight(kg):2.9, Net Weight(kg):1.5, Dimension(mm): 190*250*75, Company Name RAYLABEL	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.99,000/- each Electronic Balance digital top loading, high precision electromagnetic balances, very fast response, various unit conversions and various piece counting functions available analogue bar display, capacity 2200gm, Readability 0.01gm, pan size 160x124mm, operated on 220 volts, Model BL-2200H, Shimadzu, Japan	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.45,630/- each Portable Precision Balances Model: HCB 602H ADAM Equipment Co., Ltd. UK. Technical Specifications: Maximum capacity: 600g, Readability: 0.01g, Repeatability (S.D.): 0.1g, Linearity (\pm): 0.02g, Pan size: 120mm \emptyset , General Specifications: Typical stabilisation time: 2 Sec, Units of measurement: Gram (g), Carat (ct), Pound (lb), Ounce (Oz), Dram (d), Grain (GN), Troy Ounce (Ozt), Pennyweight (dwt), Momme (MM), Taels S. (TL.S), Taels T. (TL.T), Taels Hk. (TL.H), Taels T. (TL.T), Newton (N), Operating temperature: 0°C 40°C, Power supply: 12VDC 800mA AC adaptor/rechargeable battery pack, Draught shield: Removable draft shield standard on all models, Draught shield dimensions: 132mm, Overall dimensions (wxdxh): 170 x 245 x 80mm, Net weight: 2kg	
4	M/S Duke Traders, Hyderabad.	Rs.13,000/- each As per tender, Japan	Not qualified, literature not provided & technical specification not quoted
5	M/S YJW Trading Corporation, Hyderabad.	Rs.11,500/- each. As per tender, Japan / Italy	
6	M/S A.J. Enterprises, Karachi.	Rs.77,800/- each Digital Balance Panther Brand.0.01g readability, 600g capacity, Brand: Panther Company (USA), Stabilization Time: 3 seconds, Warranty: 03 Years	
7	M/S SuperCon, Enterprises, Hyderabad.	Rs.196,830/- each. Model: BPS-52 plus, BOECO, Germany, with automatic internal calibration Capacity: 2100grams, Readability: 0.01gram, Power: 220, 50Hz, complete with standard accessories.	

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8	Binocular Microscope image capturing digital camera with LCD display. Nikon, Olympus, Labomed, Kyowa, Medilux or equivalent (UK/USA/ Japan/ Germany). Stand Single mold sturdy stand with anti-rust materials. Viewing. Bodies 45° inclined, 360° rotatable dovetails. Interpupillary distance 54.74mm Eyepieces Wide field focusable paired eyepieces 10X/18mm with foldable eye guard, lackable, antifungal Nosepiece Quadruple Nosepiece (Ball bearing type) with rubber grip. Objective. Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Rectangular stage size 135 x124mm. X/Y travel range 76mmx50mm, low drive movement controls, single specimen holder. Condenser. Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragms with snap-in blue filter Focusing. Co-axial coarse and fine focusing on ball drive system for smooth operation. Fine drive movement 0.3mm/rotation. Illumination. LED or Halogen 6V-20W illumination with variable illumination control. Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals. Universal input 100V-240V AC, 50/60Hz. Built-in voltage stabilizer. Accessories. 10x, 40xs & 100x objectives Immersion oil & dust cover.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.583,222/- each. Automated camera Binocular microscope, Item Code:RAY-2000D digital microscope with 3.0MP resolution camera, Standard Outfit ,Camera System:Inside Digital Camera System,3.0 M pixel CMOS Chip, Eyepiece: WF10X/20, Objective:Infinity plan Objective 4X , 10X , 40X , 100X, Nosepiece:Quadruple revolving mechanism with multiple ball bearing. Stage:Rectangular 188X150mm surface stage mounted on the main body.Cross travel 78X54mm using low-positioned X/Y coaxial control knob. Focusing:Coaxial Coarse & Fine Focus Adjustment, Condenser:Abbe condenser,NA1.25(aperture diaphragm with position guide marking for respective objectives). Illumination:12V-20W halogen lamp, lamp changeable by removing the Collector, unit. Brightness Adjustable, Image Outputs:USB2.0, Software: Micrometrics BE/SE / TWAIN / DirectShow Source Filter / SDK, Options Camera System: 5.0 M pixel CMOS Camera System/ 1.3M pixel CCD Camera System/2.0 M pixel CCD Camera System, Nosepiece:Backward Quintuple Nosepiece, Condenser:Dark Field Condenser(Dry)/NA0.9/Dark Field Condenser(Oil)/NA1.25-1.36, Phase Contrast Set:Infinite Plan-Achromatic PH10X, PH20X(S), PH40X(S), PH100X(S, Oil), Turret Annular, Phase Contrast Condenser, Centering Telescope, Green Filter, Field Diaphragm:Collector with Field Diaphragm, Polarization Attachments:Simple Polarization Set, Company Name RAYLABEL	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.1,190,000/- each. Microscope Demonstration Trinocular research with standard Trinocular head 45° inclined, 360° Rotatable with dual diopter adjustment for eye refraction differences, tube separation is adjustable from 54 to 74mm to conform with individual interpupillary distances attachable mechanical stage 75 x 30 mm X and Y with vernier reading to 0.1mm with four Plan objectives 4X/0.10 W.D 9.0mm, 10X/0.25 W.D 5.3mm, 40x spring/0.65W.D 0.5mm, 100x oil spring/1.25 N.A and W.D. 0.1mm, pair of eyepieces 10x F.N 20mm wide field high point condenser Abbe type 2 lens precenteredN.a. 1.25 with Iris Diaphragm and filter holder with built in LED illuminator Koehler and standard accessories, operated on 220 Volts MT-4000 Series. Model MT-4300L, Meiji Techno, Made in Japan	

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Sr. #	Name of firm	Technical Specification of the firm	Remarks
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	<p>Rs.134,550/- each. Binocular Microscope Model: CxL Trinocular With Microscope eye piece Camera Cat No. 9135012 LABO AMERICA INC., USA. Objectives: LPseries DIN Semi Plan Achromatic objectives, antifungal coatings: 4x/NA 0.10/WD 16.5mm, 10x/NA 0.25/WD 6.45mm, 40x (spring)/NA 0.65/WD 0.45mm, 100x (spring loaded, oil)/NA 1.25/WD 0.10mm</p> <p>Accessories:</p> <p>a) Rs.113,490/- Camera ivu-3100</p> <p>B). Rs.45,630/- 24" LCD for CxL Sony/ Samsung</p> <p>Total: Rs.293,670/- per set.</p>	
4	M/S Scientec, Karachi.	<p>Rs.458,060/- each 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>	
5	M/S SuperCon, Enterprises, Hyderabad.	<p>Rs.1,081,350/- each Model: BM-700, BOECO, Germany, Research Microscope with Trinocular Tube and 5.0 mega pixels CMOS HD camera, Software and Compatible computer with LED Monitor 19". Spare LED lamps, operating Manual and filters. Eyepiece camera is on abselate system.</p>	

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9 **Incubator. Incubator, 50 liters capacity 2-3 shelves adjustable Temp. Range +5 to 70°C, Digital display & control imported for Lab. purpose two door Memmert/ Cole Parmer/ Haeareus or imported equivalent.**

Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.698,895/- each Incubator Cat # 51028133, Advance Protocol Incubator Model: IMH60, Convection technology Dual Convection, Temperature range °C, ambient +5 °C to 105 °C, Spatial temperature deviation at 37 °C ± 0.6 °C / ± 0.2 °C, Temperature deviation over time at 37 °C ± 0.1 °C, Footprint m2 / sqft: 0.3 / 3.2, Chamber volume L / cuft: 66 / 2.3, Dimensions chamber, mm / in (WxHxD) 354 x 508 x 368 / 13.9 x 20.0 x 14.5, exterior*, mm / in (WxHxD) 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:850/3.7, Weight kg / lb: 45 / 99, Brochure Enclosed, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin:Germany	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.350,000/- each Incubator Memmert Precision Interior & Exterior Stainless Steel Highly Sensitive microprocessor PID-temperature controller Extremely accurate ideal for all applications with temperatures ambient +5 degree to +70°C with Natural convection, digital LED-display of set and actual temperature, Double door Interior glass & Exterior stainless steel with integrated auto diagnostic system integrated digital timer (1 min. up to 99 h 59 min) Capacity 53 Lit Int interior Dimension 400 x 400 x 330mm, Complete with Two Stainless Steel Shelve Operated on 220volts Model INB-400, Memmert Made in Germany	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- Incubator Forced-air Type Model: Thermostable IF-50, Daihan Scientific North America Inc.USA, <u>Specification:-</u> Capacity: 50 Lit, Dimension (w x d x h): Interior (mm): 370 x 350 x 419, Exterior (mm): 518 x 637 x 700, Heater Power: 200W, Temp. Range: Room Temp +5C to 70C, Net Weight (kg): 46, Packing Size 628 x 752 x 775 (w x d x h) (mm), Shipping Weight (kg): 58, Power Consumption: 216.3 W, Energy Consumption, at 37°C: 28Wh, at 50°C: 84Wh, Power Supply: 1 Phase 120V, 50Hz or 230V, 50/60Hz.	
4	M/S ScienTec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Incubator, Microprocessor PID Controlled Dual Display Digital, Capacity 54 litres, Model: IFA-54, Make: ESCO, Singapore	

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10 Deep Freezer 17-cu.ft./500liters double door, colour white warranty: 1-year parts, 3-year compressor Dawlance, Waves, PEL or equivalent. with higher specification

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs.58,000/- each As per tender , Dawlance/Haier/Orient	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.55,000/- each. As per tender , Dawlance/Haier/Orient	
3	M/S A.J. Enterprises, Karachi.	Rs.82,000/- each Deep Freezer Waves, Size:18 CF, Voltage: 220V 50Hz, Refrigerant:1 34a CFC Free, Capacity: 478 Liters Approx, Net Weight: 90 Kg Approx, Dimensions: (HXWXD)1600 x 610 x 876 mm,Warranty: 1 Year Parts + 3 Years Compressor	

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11	Drying Oven , General purpose: Heating and Drying Oven, Temp range – 50-250°C, 50-60 liters capacity on/off timer for operation, over temp alarm, Corrosion resistant stainless steel interior/exterior Flexible shelving system to optimize chamber. Application-glassware drying/dry sterilization Voltage-220V Two years warranty, Memmert, Fisher Scientific or exact equivalent.	
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Sr. #	Name of firm	Technical Specification of the firm	Remarks
1	M/S Talha Enterprises, Karachi.	Rs.458,257/- each <u>Drying Oven</u> , Cat # 51028139 General Protocol Oven Model: OGS60, Convection technology Gravity convection, Temperature range °C, ambient +50 °C to 250 °C, Spatial temperature deviation at 37 °C ± 4.4 °C, Temperature deviation over time at 37 °C ± 0.4 °C, Footprint m2 / sqft: 0.3 / 3.2, Chamber volume L / cuft : 65 / 2.3, Dimensions chamber, mm / in (WxHxD) 328 x 480 x 415 / 12.9 x 18.9 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 1800 / 7.9, Weight kg / lb, 42 / 93, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin: Germany	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.298,000/- each Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays, Temperature range 5°C above ambient up to +300°C, Single DISPLAY, natural convection, adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually, self-diagnostics for fault analysis, digital timer adjustable from 1 minute to 99 days, 23 hours, Multiple Over temperature Protection with audible and visual alarm, Interior Stainless Steel & Textured Stainless Steel Casing, Operated on 220volts, UN Series, Capacity 53 Lit, interior dimension: 400 x400x330mm with single stainless steel tray. Model UN-55, Memmert, Made in Germany	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- each <u>Horizontal Flow Ovens</u> , <u>Forced-Air type, With Digital Fuzzy Control</u> , Model: Thermo Stable OF-50, Dathan Scientific North America Inc. USA, <u>Technical Specifications:-</u> Capacity: 50 Lit, Interior Dimension Size: 370x345x420, (W x D x H)mm, Exterior Dimension Size: 518x647x724 (W x D x H)mm, Heater: 650W, Temp. Range: Ambient +5°C to 250°C, Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C, , Net Weight (kg) 44, Packing Size: (wxdxh) (mm) 622x754x807, Shipping Weight (kg) 59, Power Consumption: 674W, Energy Consumption, at100C 117Wh, at150C 230Wh, Electric Reqts: 120V, 60Hz or 230V, 50/60Hz	
4	M/S ScienTec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Oven Microprocessor PID Controlled Dual Display Digital, Capacity 54 litres Model: OFA-54 Make: ESCO, Singapore	

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12	Oven Sterilizer, Capacity 50-55 liters 400mm x 400mm x 330mm (WxHxD), Stainless steel (standard equipment) Max. Number of grids/shelves 4, Textured stainless steel exterior, Width 585mm, Height 784mm, Depth (without door handle), door + 56mm 514mm, Further data Electrical load at 230V, 50/60Hz, Working temperature range above ambient temperature to +300°C, Setting temperature range +20°C to 300°C	
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Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Talha Enterprises, Karachi.	Rs.738,652/- each Oven Sterilizer Cat # 51028544, Advance Protocol Security Oven, Model: OGH60-S-SS, Convection technology Gravity convection, Temperature range °C +50 °C to 330 °C, Spatial temperature deviation at 150 °C ± 2.5 °C, Temperature deviation over time at 150 °C ± 0.3 °C, Footprint m ² / sqft 0.3 / 3.2, Chamber volume L / cuft 65 / 2.15, Dimensions chamber, mm / in (WxHxD) 328 x 480 x 389 / 12.9 x 18.9 x 15.3, exterior*, mm / in (WxHxD) 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 1810 / 7.9, Weight kg / lb 44 / 97, Manufacturer: Thermo Electron LED GmbH Langenselbold Germany, Country of Origin: Germany Warranty: 12 Months	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.298,000/- each Universal Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays, Temperature range 5°C above ambient up to +300°C, Single DISPLAY, natural convection, adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually, self-diagnostics for fault analysis, digital timer adjustable from 1 minute to 99 days, 23 hours, Multiple Over temperature Protection with audible and visual alarm, Interior Stainless Steel & Textured Stainless Steel Casing, Operated on 220volts, UN Series, Capacity 53 Lit, interior dimension: 400 x400x330mm with single stainless steel tray, Model UN-55, Memmert, Made in Germany	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.216,450/- each Horizontal Flow Ovens, Forced-Air type With Digital Fuzzy Control Model: Thermo Stable OF-50 m Daihan Scientific North America Inc:USA <u>Technical Specifications:-</u> Capacity: 50 Lit. Interior Dimension Size: 370x345x420 (W x D x H)mm Exterior Dimension Size: 518x647x724 (W x D x H)mm Heater: 650W Temp. Range: Ambient +5°C to 250°C Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C, Variation: +1C at 100C, +1.8C at 150 Sensor: PT100 Display: Digital LCD Display with Back-Light Timer: 99hr 59min (Delay & Continuous Function) Material Internal: Stainless Steel (#304) Material External: Powder Coated Steel Material Insulation: Glass Wool Shelves: 2ea of Stainless Steel Wire Shelves included Load per Shelf:16kg Ventilation: Ventilation hole with Stainless steel Cap, Hole Diameter 40mm 1ea Net Weight (kg) 44 Packing Size: (WXDXH) (mm) 622x754x807 Shipping Weight (kg)59 Power Consumption: 674W Energy Consumption, at100C 117Wh at150C 230Wh Electric Reqt: 20V, 60Hz or 230V, 50/60Hz	
4	M/S ScienTec, Karachi.	Rs.220,000/- each Forced Convection Laboratory Oven, Microprocessor PID Controlled Dual Display Digital Capacity 54 litres Model: OFA-54 Make: ESCO, Singapore	

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13 Gas Cylinder (10kg) tubing, regulator and Bunsen burner.

No firm offered the rate and technical specification.

14 **Tabletop centrifuge machine** Capacity: 7-15ml x 6-8 tubes, speed-300-6000rpm without changing rotor speed and Time adjustable, speed liner and stable autobalancing system, Power supply 220v 50/60hz, quality certification ISO9001, ISO 13485UKUSA/ Germany or exact equivalent

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Talha Enterprises, Karachi.	Rs.435,240/- each Tabletop Centrifuge Machine, Cat # 75008800 Bench Top, Centrifuge, Model: Medifuge, Maximum Capacity 8 x 15ml (fixed, angle) 8 x 10ml (swinging bucket) , Maximum Speed 300-4,900 rpm, adjustable in increments of 100 rpm , Maximum RCF 3,114 x g (fixed angle) 3,490 x g (swinging bucket) , Time Setting 1-99 minutes, in increments of 1 minute; HOLD , Temperature Range 2°C to 40°C, Control System Microprocessor , User Interface Large, brightly-lit LED display , Program Memory 4 Acceleration/Deceleration Profile 1 (standard), Deceleration Profiles 3 (standard, soft, brake-off) Acceleration/Deceleration Rates* 24/37 seconds (fixed angle),24/31,seconds (swinging bucket) , Noise Level <56 dBA (swinging bucket) , Power Consumption 100-130 W, voltage dependent Dimensions (H x W x D) 240 x 325 x 450 mm (9.45 x 12.79 x 17.72 in) , Weight 15.5 kg (34.1 lb), Standards IEC 61010-1, IEC 61010-2-020, IEC 61010-2-101, EN 61326-1, EN ISO 13485 , Certifications UL, CE, RoHS, CSA, IVD, FDA class 1 , Included: - Dual Spin rotor body, - Fixed angle buckets (set of 8), - Swinging buckets (set of 8) , - Green/short spacers (set of 8), - Yellow/long spacers (set of 8), Manufacturer Thermo Electron LED GmbH Langenseld Germany, Country of Origin: Germany Warranty: 12 Months	
2	M/S Al-Beruni Scientific Store Hyderabad.	Rs.169,000/- each Centrifuge Machine, digital control over speed & time, Maximum speed up to 6,500 rpm 4,000 xg with safety, lock-lid will not open with rotor in motion. Technical Specification: Speed range:300 to 6,500 rpm, Max. RCF:4,000xgmm Max. Capacity:6 x 15ml Conical, Timer:0.5 to 30 minutes or continuous, with momentary option, Complete unit with rotor, Model Spectrafuge 6C, Labnet International, Inc. Made in USA.	
3	M/S Scientific Technical Corporation (Ltd.) Lahore.	Rs.171,990/- each Micro Prime Centrifuge Model: C1015 CENTURION SCIENTIFIC LTD., UK. Technical Specifications: Speed: 500-15,000 Rpm (10 Rpm steps) Rcf Max: 22,000 G, Supply: 230V, 50/60Hz Complete With: Small Fixed Angle Rotor, Cat. No: BRK5408 Rotor type: 8 x 15ml, Maximum Speed Rpm: 6,000 Maximum Rcf (G): 3,400, Autoclavable (frequency): 121°C (10)	
4	M/S ScientTec, Karachi.	Rs.28,500/- each Palm Micro Centrifuge Model: D1008 Make: Diab, USA	Not qualified, technical specification lower than desired

15 **Solar Driven Refrigerator**, Solar powered, solar panel, battery and 15AM charge controller, Gross vol 50L (1.8cuft) cabinet type- chest, direct cooling. Ambient temp- 43°C, Defrost – Manual, Refrigerant – CFC, Temp Range- <-5°C, Microprocessor controller, temp display baskets-2, WHO/PQS certified

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Scientific Technical Corporation (Ltd.) Lahore.	<p>Rs. 1,131,975/- each Solar Driven Refrigerator Model: VLS 054 SDD GREEN LINE Make: Vestfrost Solutions-Denmark SOLAR DIRECT DRIVEN REFRIGERATOR SPECIFICATIONS: Gross volume, litres (cu. ft.): 108 (3.81), Net volume, litres (cu. ft.): 55.5 (1.95), Temperature range (43°C AMB): +2° to +8°C, Climate Zone: Hot, Autonomy, hours: 72.4, Hold-over time, hours: 78.2, Refrigerant: R600a, WHO PQS code: E003/041, Freeze protection, grade: A, Min. solar radiation, kWh/m²/day: 3.5 Voltage, V Dc: 12 DIMENSIONS Height, mm (inches): 850 (33.46) Width, mm (inches): 720 (28.34) Depth, mm (inches): 600 (23.62) Depth w. handle/hinges, mm (inches): 700 (27.55) Gross weight, kg (lbs): 85 (187.39) Net weight, kg (lbs): 65 (143.30) LOADING QUANTITIES Qty. per 20' / 40' container / Qty. per truck (EU standard) WHO PQS approved, ISO 9001, 14001 & 18001 OHSAS Certified</p>	

Muhammad Iqbal

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Purchase of Furniture/Fixture

1 Drawers in lab. Sections 7'x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Talha Enterprises, Karachi.	Rs. 135,000/- each unit Drawers in lab. Sections 7'x2'. 10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawer, high quality sliding glass, lock and handle	
2	M/S A.J. Enterprises, Karachi.	Rs.94,750/- each Drawers In Lab Sections Size 7' x 2'-10" x 2'-5", Made of Aluminum frame 1" x 2" under the panel aluminum, four draws in high quality on ball barring channel. Draw material MDF high density fiber board along with Imported locks and Handles. Four caster inside the Drawers.	
3	M/S Burraq Business Corporation, Hyderabad.	Rs. 150,000/- each As per specification and measurement further; high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guarantee one year part change.	
4	M/S SuperCon, Enterprises, Hyderabad.	Rs.46,272/- each 7'x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.	

2 Fixture in Administrative/ Account Block, 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Talha Enterprises, Karachi.	Rs 265,000/- each Fixture in Administrative Account Block, 7'x8'x1'.6" (LxHxD) Aluminum, Frame space between drawer 22" high quality sliding glass lock and handle.	
2	M/S A.J. Enterprises, Karachi.	Rs.227,550/- each Fixture In Administrative Block Size 7' x 8' x 1'-6" (LXHXD), Superior Quality Aluminum frame space between draws 22" high quality sliding glass lock and handles imported	
3	M/S Burraq Business Corporation, Hyderabad.	Rs. 185,000/- each As per specification and measurement further; high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. Different color glass frosted paper also with wall paper on back wall inside showcase. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guarantee/ Shelf life one year part change.	
4	M/S SuperCon, Enterprises, Hyderabad.	Rs.81,077/- each 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle	

Munir Talha

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Asif Raza

3	Fixture in Administrative Block, 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.		
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Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Talha Enterprises, Karachi.	Rs. 135,000/- each Fixture in Administrative Block, 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.	
2	M/S A.J. Enterprises, Karachi.	Rs. 98,750/- each Fixture In Administrative Block Size 4' x 6' x 1'-6" (LxHxD), Superior Quality Aluminum frame space between draws 22" high quality sliding glass lock and handles imported	
3	M/S Burraq Business Corporation, Hyderabad.	Rs. 135,000/- each As per specification and measurement further; high quality full gauge, corrosion free lightweight aluminum used color of your choice. 12mm top glass durable show case section with 12 mm drawers. Front box window noiseless sliding section separate in 5mm glass and aluminum sound and air dust proof tight fitting with brush. Different color glass frosted paper also with wall paper on back wall inside showcase. All accessories and hard wares gas kit, handle lock, rubber etc heavy duty imported used. Best workmanship, fitting and fixing. No looseness of any part, guarantee/ Shelf life one year part change.	
4	M/S SuperCon, Enterprises, Hyderabad.	Rs. 34,747/- each 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.	

4 Visitors benches, stainless steel heavy duty three seaters for reception counter with back & arm rests.			
Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs21,500/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 19,500/- each As per tender	
3	M/S A.J. Enterprises, Karachi.	Rs. 17,750/- each Visitor Benches, Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 25,000/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs. 15,240/- each Stainless steel heavy duty three seaters for reception counter with back & arm rests.	

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
5.	Office Table with side rack small Wooden table of size 2'x3'x2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plywood side rack of 3"x1'.6"x1'.4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plywood.		
1	M/S Duke Traders, Hyderabad.	Rs. 15,000/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 11,700/- each As per tender	
3	M/S A. J. Enterprises, Karachi.	Rs. 11,750/- each Office Table With Siderack, Wooden Table Size 3' x 2' x 2 1/2'. Top made in Lamination of Approved Color. Having three Draws on right side of the Table. Side rack size 3' x 1 1/2' x 16" of the same material of Table with Sliding Window, and Draws as provisional as per Approved Design.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 10,000/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs. 21,590/- each Wooden table of size 2'x3'x2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plywood side rack of 3"x1'.6"x1'.4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plywood.	

6	Computer table, 1. size:120cm * 60cm * 75cm, for sides, vertical, bottom, door and back made o 18mm prelaminate particle board. 2. Top table finished with prelaminated particle board and edge banding with same colour PVC tape. 3. One drawer 40* 50* 18cm size, one cupboard with shelf, CPU stand, Foot Rest, key board tray fitted with necessary fittings such as wire/cable manager, auto closing hinges, stainless steel handle, multipurpose lock, sliders, necessary bushes etc. with fully closed back panel.	
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Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs. 11,500/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.9,800/- each As per tender	.
3	M/S A.J. Enterprises, Karachi.	Rs. 11,250/- each Computer Table Standard Size , Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 15,000/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.12,700/- each Size:120cm * 60cm * 75cm, for sides, vertical, bottom, door and back made o 18mm prelaminate particle board. Top table finished with prelaminated particle board and edge banding with same colour PVC tape. One drawer 40* 50* 18cm size, one cupboard with shelf, CPU stand, Foot Rest, key board tray fitted with necessary fittings such as wire/cable manager, auto closing hinges, stainless steel handle, multipurpose lock, sliders, necessary bushes etc. with fully closed back panel.	

M/S YJW Trading Corporation

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	Computer chair.		
7	<ol style="list-style-type: none"> 1. Seat & Back of the computer chair shall be made of plywood upholstered with fabric and moulded polyurethane foam. 2. Mid Back size shall be 45 (W) x 53cm (H) and Seat size shall be 50 (W) and 48cm (D). (Minor variations will be accepted). 3. To be moulded with density = 45+2kg/m³ and Hardness at 25% compression. 4. Armrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S insert. 5. Should have 360 degrees revolving facility, back tilt facility & Upright position locking facility. 6. The pedestral is to be fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection molded black polypropylene hub cap and 5 Nos. twin wheel castors (Castor wheel dia 5.0cm) 		

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs. 6,900/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 6,200/- each As per tender	
3	M/S A. J. Enterprises, Karachi.	Rs. 10,750/- each Computer chair standard size, Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 10,500/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs. 9,652/- each Seat & Back of the computer chair shall be made of plywood upholstered with fabric and moulded polyurethane foam. Mid Back size shall be 45 (W) x 53cm (H) and Seat size shall be 50 (W) and 48cm (D). (Minor variations will be accepted). To be moulded with density = 45+2kg/m ³ and Hardness at 25% compression. Armrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S insert. , Should have 360 degrees revolving facility, back tilt facility & Upright position locking facility. The pedestral is to be fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection molded black polypropylene hub cap and 5 Nos. twin wheel castors (Castor wheel dia 5.0cm)	

M. S. SuperCon

M. S. SuperCon

M. S. SuperCon

8 White board 6'x4' presentation board. High quality glass Marker board 4'x6' white starphire 1/4" tempered glass with polished edges, back painted, wall mounting 1" dia aluminum stand offs.

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs. 10,800/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.9,800/- each As per tender	
3	M/S A. J. Enterprises, Karachi.	Rs.12,750/- each White Board 6' x 4' Presentation Board , Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs.5,000/- each As per tender specification.	

9 Steel Almirah. Size 6'x 3'1'.6" (HxWxD) 22guage for body and 20guage for doors, four shelves making 5 compartment, three way botting device with tongu in goove inter locking mechanism with lever lock. Handle made of non ferrous metal alloy, chrome plated, Almirah painted with synthesize enamel paint.

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs. 14,800/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs. 12,700/- each As per tender	
3	M/S A. J. Enterprises, Karachi.	Rs. 16,750/- each. Steel Almirah Size 6' x 3' x 1 1/2' (HXWXD) , Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs. 16,500/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs. 19,050/- each Size 6' x 3' 1'.6" (HxWxD) 22guage for body and 20guage for doors, four shelves making 5 compartment, three way botting device with tongu in goove inter locking mechanism with lever lock. Handle made of non ferrous metal alloy, chrome plated, Almirah painted with synthesize enamel paint.	

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10	Laboratory Stool steel body hydraulic. Steel or equivalent durable quality, height adjustment pneumatic, with level press, smooth transition, pivoted back rest, seat and back rest with good quality foam of phyurethane or better, foot rest ring shaped wheel/casters for movement.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs.9,500/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.8,500/- each As per tender	
3	M/S A.J. Enterprises, Karachi.	Rs.7,750/- each Laboratory Stool Steel Body, Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs.10,400/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.8,890/- each Steel or equivalent durable quality, height adjustment pneumatic, with level press, smooth transition, pivoted back rest, seat and back rest with good quality foam of phyurethane or better, foot rest ring shaped wheel/casters for movement.	

11	Office table medium size with side rack. Wooden table of size 4'x2'.6" x 2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial ply board side rack of 3'x1'.6"x1'.4" (LXHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial ply board.
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Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs.18,900/- each As per tender	
2	M/S YJW Trading Corporation, Hyd	Rs.14,800/- each As per tender	
3	M/S A.J. Enterprises, Karachi.	Rs.14,750/- each Office Table Medium Size With Side Rack, Wooden Table Size 4' x 2 ½' x 2 ½'. Top made in Lamination of Approved Color. Having three Draws on right side of the Table. Side rack size 3' x 1 ½' x 16" of the same material of Table with Sliding Window, and Draws as provisional as per Approved Design.	
4	M/S Burraq Business Corporation, Hyd.	Rs.21,000/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.34,290/- each Wooden table of size 4'x2'.6" x 2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plyboard side rack of 3'x1'.6"x1'.4" (LXHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plyboard.	

M/S A.J. Enterprises

AS

Asst. Engineer

12 **Office Chair wooden standard quality.** Wooden armed office chair of sheesham wood, can seat and back finished with sprit polish.

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs.3,200/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.2,200/- each As per tender	
3	M/S A.J. Enterprises, Karachi.	Rs.4,750/- each Office Chair Wooden Standard Size, Wooden armed office chair of sheesham wood, Cane Knitting seat and back finished with Spirit polish.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs.5,300/- each As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.5,842/- each Wooden standard quality, wooden armed office chair sheesham wood, can seat and back finish with sprit polish.	

13 **Almirah with glass door.** Steel glass door Almirah of size 78"x36"x15" (4mm glass) having 5 compartments, 22guage with locking arrangement and complete in all respect.

Sr. #	Name of firm	Technical Specification of the firm	Remarks.
1	M/S Duke Traders, Hyderabad.	Rs.16,800/- each As per tender	
2	M/S YJW Trading Corporation, Hyderabad.	Rs.15,900/- each. As per tender	
3	M/S A.J. Enterprises, Karachi.	Rs.17,750/- each. Almirah With Glass Door Size 78" x 36" x 15", Specification as per Tender Documents.	
4	M/S Burraq Business Corporation, Hyderabad.	Rs.19,500/- each. As per tender specification.	
5	M/S SuperCon, Enterprises, Hyderabad.	Rs.21,590/- each. Steel glass door Almirah of size 78"x36"x15" (4mm glass) having 5 compartments, 22guage with locking arrangement and complete in all respect.	

M/S YJW Trading Corporation

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MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 22-12-2016 @ 2.30PM IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR PROCUREMENT OF "HARDWARE/COMPUTER EQUIPMENT, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR THE DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2016-2017.



List of participants attached

The meeting started with the name of Allah the almighty. The Chairman Procurement Committee welcomed the participants of the meeting and opened the discussion on agenda items.

Senior Research Officer Directorate of Veterinary Research & Diagnosis, CVDL Sindh Tando Jam briefed the forum that tender were called through news papers for the procurement of "Hardware/Computer Equipment, Laboratory Machinery & Equipment and Furniture/Fixture" for the Directorate of Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam during the current financial year 2016-17.

Tender advertisement appeared in "The Daily Kawish, Daily Jang and Daily Dawn dated 10-11-2016 and SPPRA website Sr. No.30405 dated 10-11-2016.

Nine (09) firms purchased tender documents and submitted sealed tenders. Tenders were opened on 30-11-2016 @ 12.00Noon before seven (7) interested bidders/ authorized representatives in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad by the Procurement Committee.

Procurement Committee evaluated/scrutinized NTN, STRN, call deposit, professional tax 2016-17, technical specification based on bid evaluation criteria and finalized the tender. In the light of justification provided by the Senior Research Officer, Directorate of 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.
- 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.

- 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.

Purchase of Hardware.

- | | |
|----|--|
| 1. | <p>Computers and Printers with all accessories as below or higher specification. Desktop computer Intel, core i5, 5th generation processor or higher specification, complete with Microsoft Windows 10 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i7, 6th generation, Processor speed 4.2GHZ, 8GB RAM, Hard drive: 500GB SATA-III hard drive, DVD optical drives: read and write Dual layer, SATA 24 ASUS Graphics:, Shared Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. Operating system and software, Monitor full HD 21" 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/letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension 13.74x9.38x7.71, One year local warranty.</p> |
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm

Rs.145,000/- each. Desktop computer Ledcorei5 5th Generation processor, one year local warranty, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i5 6th Generation 15-4460, Processor speed 4.2GHZ,8GB RAM, Hard drive: 500GB SATA-III hard drive, casing tower ATX (Legend)DVD optical drives: read and write Dual layer, Graphics:, Shared, Graphics, Interfaces and connectivity: 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. Operating system and software, Monitor LED 19" AOL. Extras : Dust cover ,Headphone etc, 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/letter/legal/Envelope, Paper Trays 1 Connectivity USB Power consumption 250 Watts, Dimension, 13.74x9.38x7.71, One year local warranty

Purchase of Laboratory Machinery & Equipment.

- | | |
|---|--|
| 1 | <p>Glass distillatory Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V UK, USA, Germany OR Exact equivalent standard.</p> |
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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:

Rate and technical Specification of the firm

Rs.72,000/- each Borosilicate glass material, distillation capacity 4 liter/hour, microprocessor controlled electric supply 220-230V Imported.





Autoclave 25 liters capacity, top loading, Temp range 5-132°C, Accuracy ± 0.5°C @ 121°C, digital display, timer Heater 2KW, pressure 1.2kg/cm stainless steel, electronic door lock sensing, safety devices for temp, pressure, 02 wire basket U.K/ Germany/ Japan or imported equivalent.

Procurement Committee approved the technical specification and rate of M/S ScienTec, Karachi for the item as under:

Rate and technical Specification of the firm
Rs.399,000/- each Autoclave, 50Ltr, Model: FD50A, Make: SysTech, (Autoclave & Sterilizers)

3	<p>ELISA Reader, Washer, computer and printer. 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, software 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, USA/U.K./Germany or Exact Equivalent imported. 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, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above</p> <p>c) Computer with i5, Intel mother board and processor 4.2GHZ, 8MB RAM.</p> <p>d) Dot matrix printer, Impact dot matrix printing method, 24 pins, 80 columns, 24 needles, USB interface High speed-draft 10cpi:347 chars/sec, 360x80DPI printing resolution window 2000, window 7, window 8, window vista and window XP, memory 128KB, compatible operating system, software CD, user manual and warranty 1-year EPSON, or exact equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm
ELISA Reader, Washer, Computer and Printer Rs.1,070,550/- each set .
<p>A). Absorbance Reader, 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 96-well plates, 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: 405nm,450nm,490nm,630nm, 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, 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), Regulatory Regulatory: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant.</p> <p>B). Auto plate Washer, Model: Eix50, 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, Microplate Types: 96 well, Maintenance: Pre-programmed maintenance routines, Onboard Software: Create, edit or run multiple protocols, Operating Temperature: 15°C to 40°C (59° to 104° F), Humidity: 10% to 85%, non-condensing, Electrical: Compatible with 100 to 240 V~ ± 10% @ 50-60 Hz, 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, Sterilization: Chemical: 70% ethyl or isopropyl alcohol and 0.5% sodium hypochlorite solution, 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), Regulatory Regulatory: CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.</p> <p>C). PC & Printer</p> <p>D). 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), • 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>

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4	<p>Research Microscope. Nikon, Olympus, Labomed, Kyowa, Medilux (. Stand, Single mold sturdy stand with anti-rust materials. Viewing Bodies. Binocular head 30° inclined, 360°c rotatable dovetails, Interpupillary distance 48-75mm, Eyepieces. Wide field focusable eyepieces 10x/20mm with foldable eye guard, lackable, antifungal. Nosepiece Quadruple Nosepiece (Ball reserve angle bearing type) with rubber grip. Objective. Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Size 200 x160mm, Rackless X-axis, double plate stage, X/Y travel range 78mmx54mm, low drive movement controls, double specimen holder. Hard coated surface for scratch resistance. Condenser. Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with 32mm blue day light filter Rack and pinion movements on stainless steel guides. Focusing. Co-axial coarse and fine focusing on ball drive system for smooth operation. Illumination. Halogen 6V-30W or LED (built in interchangeable battery) illumination with variable illumination control, Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals Universal input 100V-240V AC, 50/60Hz Built in voltage stabilizer. Accessories. 10x, 40xs & 100x, objectives Immersion oil & dust cover. Microscope eye piece camera. USB 2.0 output.3.2M/ Resolution 048x1536110mm (H) x55mm (D) Adopter Universal: 23mm/30mm/30.5mm. Sensor: ½" Enhanced Color CMOS & capture soft ware. Objectives Immersion oil & dust cover. UK/USA/Japan/Germany), or equivalent or higher specification</p>
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm
Rs.429,975/- each. Binocular Research Microscope , Model: Lx 500, , With Microscope eye piece Camera , Cat No. 9144700, LABO AMERICA INC., USA.

5	<p>Refrigerator upright 500 liters (17.5cfu). Refrigerator + 4°C, Top mount-freezer, one shelf, Refrigerator – 3 shelves, Warranty one year parts, 10 years compressor, Dawlance, Haier, PEL, Waves, or equivalent.</p>
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.85,000/- each. As per tender Dawlance/ Haier/ Orient

6	<p>Air-Conditioner 1.5 ton window with installation and iron grill., Cooling Capacity. 1.5ton, Compressor. Piston. Refrigerant. R-22, Electrostatic filter Temperature control. Remote control Digital. Anti corrosion body Deodouring filter. General, National/LG or equivalent or higher specification</p>
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.89,500/- each. Air conditioner 1.5 ton Split with Installation , Dawlance/Orient/Haier





Digital balance electricity/ battery operated 0.01g readability 500g capacity, stainless steel pan, Germany, USA, UK, Japan or equivalent imported.

Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm	
Rs.45,630/- each	Portable Precision Balances Model: HCB 602H ADAM Equipment Co., Ltd. UK. Technical Specifications: Maximum capacity: 600g, Readability: 0.01g, Repeatability (S.D.): 0.1g, Linearity (\pm): 0.02g, Pan size: 120mm \varnothing , General Specifications: Typical stabilisation time: 2 Sec, Units of measurement: Gram (g), Carat (ct), Pound (lb), Ounce (Oz), Dram (d), Grain (GN), Troy Ounce (Ozt), Pennyweight (dWt), Momme (MM), Taels S. (TL.S), Taels T. (TL.T), Taels Hk. (TL.H), Taels T. (TL.T), Newton (N), Operating temperature: 0°C 40°C, Power supply: 12VDC 800mA AC adaptor/rechargeable battery pack, Draught shield: Removable draft shield standard on all models, Draught shield dimensions: 132mm, Overall dimensions (wxdxh): 170 x 245 x 80mm, Net weight: 2kg

8	Binocular Microscope image capturing digital camera with LCD display. Nikon, Olympus, Labomed, Kyowa, Medilux or equivalent (UK/USA/ Japan/ Germany). Stand Single mold sturdy stand with anti-rust materials. Viewing. Bodies.45° inclined, 360° rotatable dovetails, Interpupillary distance 54.74mm Eyepieces. Wide field focusable paired eyepieces 10x/18mm with foldable eye guard, lackable, antifungal Nosepiece Quadruple Nosepiece (Ball bearing type) with rubber grip. Objective. Achromatic objectives 4x, 10x & 100x antifungal. Mechanical stage Rectangular stage size 135 x124mm, X/Y travel range 76mmx50mm, low drive movement controls, single specimen holder. Condenser. Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragms with snap-in blue filter Focusing. Co-axial coarse and fine focusing on ball drive system for smooth operation. Fine drive movement 0.3mm/rotation. Illumination. LED or Halogen 6V-20W illumination with variable illumination control, Up to 100,000 hours of LED life and 2,000 hours of Halogen lamp life. Electricals. Universal input 100V-240V AC, 50/60Hz. Builtin voltage stabilizer. Accessories. 10x, 40xs & 100x, objectives Immersion oil & dust cover.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm	
Rs.134,550/- each.	Binocular Microscope Model: CxL Trinocular With Microscope eye piece Camera Cat No. 9135012 LABO AMERICA INC., USA. Objectives: LPseries DIN Semi Plan Achromatic objectives, antifungal coatings: 4x/NA 0.10/WD 16.5mm, 10x/NA 0.25/WD 6.45mm, 40x (spring)/NA 0.65/WD 0.45mm, 100x (spring loaded, oil)/NA 1.25/WD 0.10mm
Accessories:	
a)	Rs.113,490/- Camera ivu-3100
B).	Rs.45,630/- 24" LCD for CxL Sony/ Samsung
Total: Rs.293,670/- per set.	

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Incubator. Incubator, 50 liters capacity 2-3 shelves adjustable Temp. Range +5 to 70°C, Digital display & control imported for Lab. purpose two door Memmert/ Cole Parmer/ Heareus or imported equivalent.

Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm	
Rs.216,450/-	Incubator Forced-air Type Model: Thermostable IF-50, Daihan Scientific North America Inc.USA, <u>Specification:-</u> Capacity: 50 Lit., Dimension (w x d x h): Interior (mm): 370 x 350 x 419, Exterior (mm): 518 x 637 x 700, Heater Power: 200W, Temp. Range: Room Temp +5C to 70C, Net Weight (kg): 46, Packing Size 628 x 752 x 775 (w x d x h) (mm) , Shipping Weight (kg): 58, Power Consumption: 216.3 W, Energy Consumption, at 37°C: 28Wh, at 50°C: 84Wh, Power Supply: 1 Phase 120V, 50Hz or 230V, 50/60Hz.

10	Deep Freezer 17-cu.ft. /500liters double door, colour white warranty: 1-year parts, 3-year compressor Dawlance, Waves, PEL or equivalent. with higher specification
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.55,000/- each.	As per tender , Dawlance/Haier/Orient

11	Drying Oven , General purpose. Heating and Drying Oven, Temp range – 50-250°C, 50-60 liters capacity on/off timer for operation, over temp alarm. Corrosion resistant stainless steel interior/exterior Flexible shelving system to optimize chamber. Application-glassware drying/dry sterilization Voltage-220V Two years warranty, Memmert, Fisher Scientific or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm	
Rs.216,450/- each	Horizontal Flow Ovens, Forced-Air type, With Digital Fuzzy Control , Model: Thermo Stable OF-50, Daihan Scientific North America Inc.USA, <u>Technical Specifications:-</u> Capacity: 50 Lit. Interior Dimension Size: 370x345x420 , (W x D x H)mm, Exterior Dimension Size: 518x647x724 (W x D x H)mm, Heater: 650W, Temp. Range: Ambient +5°C to 250°C, Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C, , Net Weight (kg) 44 Packing Size: (wxdxh) (mm) 622x754x807, Shipping Weight (kg) 59, Power Consumption: 674W, Energy Consumption, at100C 117Wh, at150C 230Wh, Electric Reqts: 120V, 60Hz or 230V, 50/60Hz.



Oven Sterilizer, Capacity 50-55 liters 400mm x 400mm x 330mm (WxHxD), Stainless steel (standard equipment) Max. Number of grids/shelves 4, Textured stainless steel exterior, Width 585mm, Height 784mm, Depth (without door handle), door + 56mm 514mm, Further data Electrical load at 230V, 50/60Hz, Working temperature range above ambient temperature to +300°C, Setting temperature range +20°C to 300°C

Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm

Rs.216,450/- each Horizontal Flow Ovens, Forced-Air type With Digital Fuzzy Control Model: Thermo Stable OF-50 m Daihan Scientific North America Inc.USA Technical Specifications:- Capacity: 50 Lit. Interior Dimension Size: 370x345x420 (W x D x H)mm Exterior Dimension Size: 518x647x724 (W x D x H)mm Heater: 650W Temp. Range: Ambient +5°C to 250°C Fluctuation: $\pm 0.3^{\circ}\text{C}$ at 100°C, $\pm 0.5^{\circ}\text{C}$ at 150°C, Variation: $\pm 1^{\circ}\text{C}$ at 100C, $\pm 1.8^{\circ}\text{C}$ at 150 Sensor: PT100 Display: Digital LCD Display with Back-Light Timer: 99hr 59min (Delay & Continuous Function) Material Internal: Stainless Steel (#304) Material External: Powder Coated Steel Material Insulation: Glass Wool Shelves: 2ea of Stainless Steel Wire Shelves included Load per Shelf:16kg Ventilation: Ventilation hole with Stainless steel Cap, Hole Diameter 40mm 1ea Net Weight (kg) 44 Packing Size: (WXDXH) (mm) 622x754x807 Shipping Weight (kg)59 Power Consumption: 674W Energy Consumption, at100C 117Wh at150C 230Wh Electric Reqts: 20V, 60Hz or 230V, 50/60Hz.

13 Gas Cylinder (10kg) tubing, regulator and Bunsen burner.

Procurement Committee approved the items for purchase from local market on quotation.

14 **Tabletop centrifuge machine** Capacity: 7-15ml x 6-8 tubes, speed-300-6000rpm without changing rotor speed and Time adjustable, speed liner and stable autobalancing system, Power supply 220v 50/60hz, quality certification ISO9001, ISO 13485UK/USA/ Germany or exact equivalent

Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Ltd.) Lahore for the item as under:

Rate and technical Specification of the firm

Rs.169,000/- each Centrifuge Machine, digital control over speed & time, Maximum speed up to 6,500 rpm 4,000 xg with safety, lock-lid will not open with rotor in motion. Technical Specification: Speed range:300 to 6,500 rpm, Max. RCF:4,000xgm Max. Capacity:6 x 15ml Conical, Timer:0.5 to 30 minutes or continuous, with momentary option, Complete unit with rotor, Model Spectrafuge 6C, Labnet International, Inc. Made in USA.



Solar Driven Refrigerator, Solar powered, solar panel, battery and 15AM charge controller, Gross vol 50L (1.8cuf) cabinet type- chest, direct cooling, Ambient temp- 43°C, Defrost – Manual, Refrigerant – CFC, Temp Range- <-5°C, Microprocessor controller, temp display baskets-2, WHO/PQ's certified.

Procurement Committee rejected the tender item and be retendered for healthy competition.

Purchase of Furniture/Fixture

- | | |
|---|--|
| 1 | Drawers in lab. Sections 7'x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle. |
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Procurement Committee approved the technical specification and rate of M/S SuperCon, Enterprises, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.46,272/- each 7'x2'.10"x2'.5" (LxHxW) Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.	

- | | |
|---|--|
| 2 | Fixture in Administrative/ Account Block, 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle |
|---|--|

Procurement Committee approved the technical specification and rate of M/S SuperCon, Enterprises, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.81,077/- each 7'x8'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle	
3	Fixture in Administrative Block, 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.

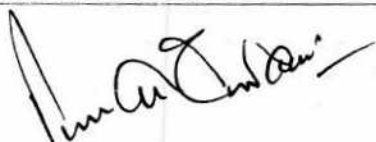
Procurement Committee approved the technical specification and rate of M/S SuperCon, Enterprises, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.34,747/- each 4'x6'x1'.6" (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.	

- | | |
|---|---|
| 4 | Visitor's benches, stainless steel heavy duty three seaters for reception counter with back & arm rests. |
|---|---|

Procurement Committee approved the technical specification and rate of M/S SuperCon, Enterprises, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.15,240/- each Stainless steel heavy duty three seaters for reception counter with back & arm rests.	



8

5.	Office Table with side rack small Wooden table of size 2'x3'x2'6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial plyboard side rack of 3"x1'6"x1'4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial plyboard.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.10,000/- each As per tender specification.

6	Computer table, 1. size:120cm * 60cm * 75cm, for sides, vertical, bottom, door and back made o 18mm prelaminated particle board. 2. Top table finished with prelaminated particle board and edge banding with same colour PVC tape. 3. One drawer 40* 50* 18cm size, one cupboard with shelf, CPU stand, Foot Rest, key board tray fitted with necessary fittings such as wire/cable manager, auto closing hinges, stainless steel handle, multipurpose lock, sliders, necessary bushes etc. with fully closed back panel.
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.9,800/- each As per tender

7	Computer chair. 1. Seat & Back of the computer chair shall be made of plywood upholstered with fabric and moulded polyurethane foam. 2. Mid Back size shall be 45 (W) x 53cm (H) and Seat size shall be 50 (W) and 48cm (D). (Minor variations will be accepted). 3. To be moulded with density = 45+2kg/m ³ and Hardness at 25% compression. 4. Amrests (fixed) shall be scratch and weather resistant made of black integral skin polyurethane reinforced with M.S insert. 5. Should have 360 degrees revolving facility, back tilt facility & Upright position locking facility. 6. The pedestral is to be fabricated from 0.2cm thick CR steel, powder coated and fitted with an injection molded black polypropylene hub cap and 5 Nos. twin wheel castors (Cstor wheel dia 5.0cm)
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.6,200/- each As per tender

8	White board 6'x4' presentation board. High quality glass Marker board 4'x6' white starphire ¼" tempered glass with polished edges, back painted, wall mounting 1" dia aluminum stand offs.
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.5,000/- each As per tender specification.

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9	Steel Almirah. Size 6'x 3' 1'.6" (HxWxD) 22guage for body and 20guage for doors, four shelves making 5 compartment, three way botting device with tongu in goove inter locking mechanism with lever lock. Handle made of non ferrous metal allay, chrome plated, Almirah painted with synthesize enamel paint.
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.12,700/- each As per tender	

10	Laboratory Stool steel body hydraulic. Steel or equivalent durable quality, height adjustment pneumatic, with level press, smooth transition, pivoted back rest, seat and back rest with good quality foam of phyurethane or better, foot rest ring shaped wheel/casters for movement.
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Procurement Committee approved the technical specification and rate of M/S A.J. Enterprises, Karachi for the item as under:

Rate and technical Specification of the firm	
Rs.7,750/- each Laboratory Stool Steel Body, Specification as per Tender Documents.	

11	Office table medium size with side rack. Wooden table of size 4'x2'.6" x 2'.6" having three drawers on RHS made of sheesham wood, top laminated frame 19mm commercial ply board side rack of 3"x1'.6"x1'.4" (LxHxD) having drawer with sliding window, interlock, made of sheesham wood, top and sides laminated commercial ply board.
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Procurement Committee approved the technical specification and rate of M/S A.J. Enterprises, Karachi for the item as under:

Rate and technical Specification of the firm	
Rs.14,750/- each Office Table Medium Size With Side Rack, Wooden Table Size 4' x 2 ½' x 2 ½'. Top made in Lamination of Approved Color. Having three Draws on right side of the Table. Side rack size 3' x 1 ½' x 16" of the same material of Table with Sliding Window, and Draws as provisional as per Approved Design.	

12	Office Chair wooden standard quality. Wooden armed office chair of sheesham wood, can seat and back finished with sprit polish.
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Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm	
Rs.2,200/- each As per tender	





13	Almirah with glass door. Steel glass door Almirah of size 78"x36"x15" (4mm glass) having 5 compartments, 22guage with locking arrangement and complete in all respect.
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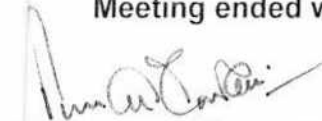
Procurement Committee approved the technical specification and rate of M/S YJW Trading Corporation, Hyderabad for the item as under:

Rate and technical Specification of the firm
Rs.15,900/- each. As per tender

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 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).
4. All the firms will pay sales tax as per government rule from the approved cost.
5. 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.
6. 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.

Meeting ended with vote of thanks.



(DR. Parkash Dewani)
Senior Research Officer

Directorate of Veterinary Research &
Diagnosis, CVDL Sindh, Tando Jam
Member Procurement Committee



(Ghulam Mustafa)
Senior Auditor

Representative of
District Accounts Office, Hyderabad
Member Procurement Committee



(Dr. Aslam Pervez Umrani)
Director General



Livestock (Extension/Research) Sindh Hyderabad
Chairman Procurement Committee



DIRECTORATE GENERAL LIVESTOCK (EXTENSION/ RESEARCH) SINDH

Strengthening of Livestock Services Project Building Behind Shahbaz Building Block-A, Hyderabad.

LIST OF OFFICERS PARTICIPATED IN THE PROCUREMENT COMMITTEE MEETING HELD ON 22-12-2016 @ 2.30PM IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/ RESEARCH) SINDH, HYDERABAD FOR PROCUREMENT OF "HARDWARE, LABORATORY MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH, TANDO JAM (DEVELOPMENT) DURING CURRENT FINANCIAL YEAR 2016-2017.

1.	Dr. Aslam Pervez Umrani, Director General, Livestock (Extension/Research) Sindh, Hyderabad/ Chairman Procurement Committee.	On chair 
2.	Dr. Parkash Dewani, Senior Research Officer, Directorate of Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam/ Member Procurement Committee.	
3.	Mr. Ghulam Mustafa, Senior Auditor Representative of District Accounts Office, Hyderabad/ Member Procurement Committee.	