



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

**BID EVALUATION REPORT.**

1.	Name of procuring Agency.	Director, Veterinary Research & Diagnosis, Central Veterinary Diagnostic Laboratory Sindh, Tando Jam.	
2.	Tender Reference No.	No.CVDL/AC/ Tender/ 2015-16(III) .	
3.	Tender description Name of work/item.	<b>Hardware, Machinery &amp; Equipment and Furniture/Fixture</b>	
4.	Method of procurement.	Single Stage - Two Envelope Procedure	
5.	Tender Published.	<b>The News, Daily Ibrat, Daily Express dated 26-11-2015, Daily Kawish dated 27-11-2015</b>	
	<b>SPPRA website</b>	<b>S. No. 25873</b>	
6.	Total bid documents Sold.	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
7.	Total bids received.	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
8.	Technical Bid opening date.	23-12-2015	
9.	No. of technically qualified (if applicable)	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
10.	Bid(s) Rejected.	Nil	
11.	Financial Bid Opening dated	28-01-2016	
12.	Bid evaluation Report.	Comparative Statement, Evaluation report & Minutes of Procurement Committee Attached Annexure-A ,B & C.	

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

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

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





021-99204248

NO.SO(G)/LS&F/ 2(70)/2014  
GOVERNMENT OF SINDH  
LIVESTOCK AND FISHERIES  
DEPARTMENT

Karachi, dated 23<sup>rd</sup> February, 2016

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

**SUBJECT: MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 17<sup>TH</sup> FEBRUARY, 2016 @ 11.30 AM FOR PURCHASE OF HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE & FIXTURE FOR THE OFFICE OF THE DIRECTOR, CENTRAL VETERINARY DIAGNOSTIC LABORATORY SINDH, TANDOJAM DURING THE YEAR 2015-16.**

I am directed to refer to your letter NO: DGL (E/R)/Tender /CVDL-III/(02)2016/3164-65, dated: 17<sup>th</sup> February, 2016 on the subject noted above and to state that Procurement be made as per rules / policy after completing all the required codal formalities. However formal approval of Administrative Department is hereby accorded.

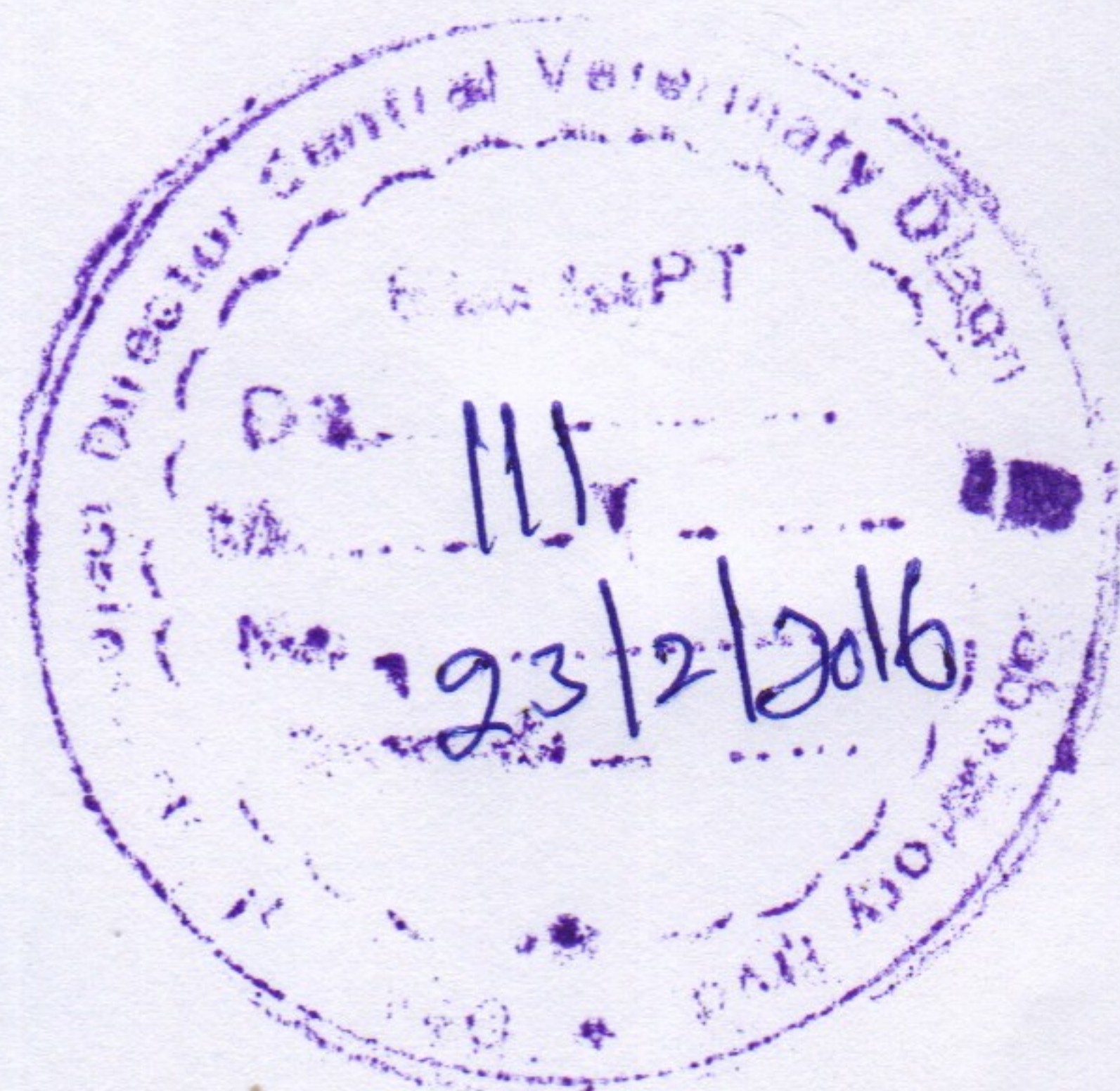
(MUHAMMAD SADIQ KHASKHELI)  
SECTION OFFICER (GENERAL)

CC to:

- ✓ 1. The Director, Central Veterinary Diagnostic Laboratory Sindh, Tandojam.
2. PS to Secretary, Livestock & Fisheries Department, Government of Sindh, Karachi
3. Master File.

A/csm

Avl 23/2/2016







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



**COMPARATIVE STATEMENT  
FINANCIAL  
TECHNICAL ITEMS QUALIFIED  
AS PER CUMULATIVE TOTAL MARKS BASED  
ON BID EVALUATION CRITERIA**

**FOR PROCUREMENT  
OF  
"HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE"  
DURING THE FINANCIAL YEAR 2015-2016**

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

Eleven (11) firms purchased and participated in the tender:

1.	<b>M/S ScienTec Karachi.</b>
2.	<b>M/S Ocean Green Chemical Service, Karachi.</b>
3.	<b>M/S Talha Enterprises, Karachi.</b>
4.	<b>M/S A.J. Enterprises, Karachi.</b>
5.	<b>M/S World Wide Scientific Karachi</b>
6.	<b>M/S Burraq Business Corporation, Hyderabad.</b>
7.	<b>M/S Habib &amp; Sons, Hyderabad.</b>
8.	<b>M/S Scientific Technical Corporation (Pvt.) Lahore.</b>
9.	<b>M/S Musaji Adam &amp; Sons, Karachi.</b>
10.	<b>M/S S.K. Trading Corporation Karachi.</b>
11.	<b>M/S Chemical House, Korangi Karachi.</b>

<b>(DR. ASLAM PERVEZ UMRANI)</b> Director, Veterinary Research & Diagnosis CVDL Sindh, Tando Jam	(Ghulam Mustafa) Senior Auditor Representative of District Accounts Office, Hyderabad	<b>(Dr. Abdullah Mewati)</b> Director General , Livestock (Extension/Research) Sindh, Hyderabad .
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## **BID EVALUATION CRITERIA**

- a) The bids shall be ranked on the basis of combined weighted score for quality and cost. The tender shall be awarded to the bidder obtaining the highest total combined score in evaluation of Technical bid and Price (financial ) bid.
- b) The bids shall be ranked keeping in view the marks obtained on a scale of 100 marks during evaluation of bids. The technical and price (financial) bids shall enjoy weightage in the proportion of 60:40 i.e. 60% for the technical bid and 40% for the financial bid.

The financial bids of only those successful bidders who obtain minimum 50% point i.e. 50/100 in Technical evaluation will be opened for **financial evaluation**.

- c) Combined scores of respective bidders shall be obtained by sum of their respective technical bid scores (out of 60) and their respective price (financial) bid scores (out of 40).
- d) Technical literature is mandatory for technical evaluation , failing to do so will result zero in technical evaluation.
- e) (i) **Criteria for evaluation** of the technical bid of contractors.

- |  |     |
|--|-----|
| • Technical specification.   | 20% |
| • Packing size / doses/tests as per requirement.                     | 10% |
| • distribution certificate/ Authorization/Manufacturing certificate. | 20% |
| • Country of origin.   | 15% |
| • Warranty.  | 20% |
| • Previous experience.   | 15% |

<b>Total:</b>	<b>100</b>
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20%		15%		10%	
Higher than required	20	Higher than required	15	Higher than required	10
As per requirement	18	As per requirement	13	As per requirement	9
Similar to requirement	12	Similar to requirement	9	Similar to requirement	6
Below to requirement	0	Below to requirement	0	Below to requirement	0

## Purchase of Hardware.

1.	<p><b>Computers and Printers with all accessories as below are higher specification.</b></p> <p><b>Desktop computer</b> quad core i5 processor, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, <b>CPU and Memory:</b> Intel Core i5 quad core, 15-4460, Processor speed 3.2GHZ, 8GB RAM, <b>Hard drive:</b> 500GB SATA-III hard drive, <b>DVD optical drives:</b> read and write Dual layer, <b>Graphics:</b> Shared Graphics, <b>Interfaces and connectivity:</b> 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. <b>Operating system and software,</b> Monitor LED 17". <b>with H.P. LASER JET 1020 or higher specification.</b> 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	Technical Specification of the firm	Rate per unit
1	M/S Talha Enterprises, Karachi.	<b>Computer Core i5,</b> System: Dell 3020, CPU Speed: Core i5 3.0, Ram: 8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish:500 GB, DVD / DVD RW / CD: Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing: Tower, LCD: Dell 18.5, <b>Printer</b> Mode:HP1102	Rs.185,000/-
2	M/S A.J. Enterprises, Karachi	Computer with all accessories DELL OPTIPLEX (BROCHURE ATTACHED), Chipset: Intel H81 , Processor: Intel Core i5-4590 (Quad Core HT 3.3GHz/ 6MB Cache), Memory: 8GB DDR 3, Hard Drive: 500GB SATA HDD, 7200RPM, Optical Drive: 16x DVD+/-RW Drive, Graphics: Integrated Intel® HD Graphics 4600, Communication: Integrated 1000Gigabit Ethernet LAN, Wi-Fi Enabled, Ports & Connectors: 4 External USB 3.0 ports (2 front, 2 rear) and 6 External USB 2.0 ports (2 front, 4 rear, except USFF – 4 rear only) and 2 Internal, USB 2.0 (MT only); 1 RJ-45; 1 Serial; 1 VGA; 2 Display Port; 2 PS/2 (MT/SFF only); 2 Line-in (stereo/microphone), 2 Line-out, (headphone/speaker), Audio: High Definition audio system including microphone and headphone ports, line-out/line-in ports and a standard internal speaker, Accessories: Dell USB Keyboard, Dell Optical Mouse, Display: Dell LED Monitor 18.5" E1916H, Operating System: Windows 7 Genuine CD (Licensed), <b>PRINTER:</b> HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer	Rs.164,100/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	13	12	9	55
2	M/S A.J. Enterprises, Karachi	18	9	12	13	12	13	77

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points $55 \times 0.60 = 33.0 + 35.48 = 68.48$
2	M/S A.J. Enterprises, Karachi	Technical points $77 \times 0.60 = 46.2 + 40 = 86.20$ 1st lowest as per cumulative marks.

<b>Purchase of Machinery &amp; Equipment.</b>	
<b>1.</b>	<b>Biological safety cabinet class-II</b> Type A-2 4ft (1.2m). External dimension (LxWxH: 31.5" - 33.5" x 51.2" - 55.9" x 60.6" - 61.8" Shash opening: 8"-10.8" Electrical Requirement: 220-230V 50/60Hz, Filter Type & efficiency: HEPA/ULPA 99.999MPPS, Certification/compliance: NSF/ANSI 49, Chamber material: stainless steel. Fluorescent lamps: Factory installed >1400LUX, Warranty: 3 years service & parts., <b>ESCO, NuAire, Thermo or exact equivalent</b>

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Model: LA2-4A1. Accessories Included: UV Lamp for 4ft cabinet, Direct Mounted Electrical Outlet - Plug Code H. American Style Service Fixture with 40mm Thread Length - Universal, Support Stand with Caster Wheels (Height 28") for 4ft cabinets, Make:ESCO, Singapore. Each	Rs.1,299,000/-
2.	M/S Talha Enterprises, Karachi.	Biological Safety Cabinet Class II Type A2 4Feet, Model: 1386, Thermo Scientific 1300 Series Class II, 01, Type A2 Biological Safety Cabinets 4 FEET, Dimensions: Exterior Dimensions H x W x D inches (mm) 59.8 x 51.2 x 31.3 (1520 x 1300 x 795), Interior Dimensions H x W x D inches (mm) 30.7 x 47.2 x 19.5 (780 x 1200 x 495), Work Surface Area sq in (sq m) 930 (60), Weight: Net Weight lbs (kg) ~530 (~240), Shipping Weight lbs (kg) ~575 (~260) Ventilation System: Exhaust/Inflow Air Volume CFM (m3/h) 330 (530), Heat Emission: Heat Emission at 25°C ambient kW ~0.15, Filter Specification Supply/Exhaust Air Filter, HEPA H 14 EN 1822, 99.995% at 0.3 µm particle size Included : • Coated Intreiro Cabinet Walls, • Manual Adjustable Height Stand, • UV Light (Factory Installed), • One Set of Armrest, Manufacturer : Thermo Electron LED GmbH Langenselbold Germany, Country of Origin : USA, Warranty : 12 Months	Rs.3,583,440/-
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Cabinet Class II Type A2, Model: NU-425-400E. Nuair. USA. Country of Origin: USA. <b>Warranty: 3 Years</b> , Meets the performance requirements of NSF/ANSI 49:2007, <b>Performance Specifications:</b> Personal Protection: NSF/ANSI 49, NSF Std. No. 49: Type A2 Class II, Style of Cabinet: Bench top/console w/base stand/storage cabinet, Cabinet Construction: All welded stainless steel 16GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal): Non-flammable, HEPA Filter Seal Type: Supply Filter-99.99% Eff. on 0.3microns: HEPEX Seal, Exhaust Filter-99.99% Eff. on 0.3 microns:Neoprene, Springload, Fumigation per NIH/NSF Procedure: Yes, Standard Services: Service Coupling (3/8 inch NPT): One, Right Sidewall, Gas Valve/Service Coupling (3/8" NPT):One, Right Sidewall, Duplex Outlet: Two, Backwall, Optional Services: Gas Cocks 3/8" NPT: Up to 3 ea. Sidewall, Remote Controlled Valves**: Up to 3 ea. Sidewall, Ultraviolet Light: One, Backwall, Standard/Cup Sinks: Left or Right Work Surf, Cabinet Size Inches (mm): Height (Fully Assembled): 63 (1600), Height (Minimum for Transport): 60 (1524), Width: 53 5/8 (1362), Depth (with Control Center): 32 7/8 (835), Work Access Opening Inches (mm): Standard Opening Height/Optional: 10 (254)/8 (203), Standard Inflow Velocity: 105 FPM (.53 m/s), Work Zone Inches (mm): Height: 28 1/2 (724), Width: 46 3/8 (1178), Depth: 23 1/2 (597), Viewing Window Inches (mm): Fully closed to Standard is tempered sliding glass: 19 1/2 (495) open, Hinged Tempered Glass (optional): 10 (254) opening, Required Exhaust CFM/CMH, Standard/Optional: Gas-Tight (NU-916/919): 338 (575) / 270 (459), Thimble (NU-918/917): 438 (739) / 370 (624), Thimble (NU-916): 462 (783) / 394 (667), Plant Duct Static Pressure Eng/Metric: 0.05-0.1"/1.27-2.54mm, Heat Rejected, BTU, Per Hour, (non-vented): 1693, (vented): 1110, Electrical: U.L./U.L.-C Listed, Volts, AC 60 Hz: 220, 12 ft. Power Cord (one): 14 GA - 3 Wire, 15A.	Rs.2,537,000/-

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Musaji Adam & Sons, Karachi.	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Esco, Model: LA2-4A1	Rs.1,363,950/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	18	9	18	13	12	13	83
2.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3.	M/S Scientific Technical Corporation, LHR	18	9	18	13	18	13	89
4	M/S Musaji Adam & Sons, Karachi.	18	9	12	13	12	9	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points $83 \times 0.60 = 49.8 + 40 = 89.8$ 1st lowest as per cumulative marks
2.	M/S Talha Enterprises, Karachi.	Technical points $61 \times 0.60 = 36.6 + 13.71 = 50.31$
3.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Technical points $89 \times 0.60 = 53.4 + 20.48 = 73.88$
4	M/S Musaji Adam & Sons, Karachi.	Technical points $73 \times 0.60 = 43.8 + 38.09 = 81.89$



2.	<b>PCR work station</b> , Provide ISO class 5 conditions for PCR work, Dimension Exterior: 35-40" x 24" x 37" (LxWxH) Lighting: Fluorescent & UV, Filter: HEPA/ULP, 99.999% efficiency Sash opening: 9-10" (Removable safety panel to close sash opening), Construction: White epoxy coated aluminum & steel, UV resistant thick safety glass sash and slides. utility ports, polished stainless steel work surface UV resistant polycarbonate / steel body, Warranty: one year ESCO, Thermo, Lab Conco, Sigma/Aldrich, USA Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	UV cabinet/PCR workstation economy, Glass front, dual UV protection lamp and UV recirculator, integral power socket, Model: UVT-B-AR, Make: Grant Instruments,Uk	Rs.715,000/-
2	M/S Talha Enterprises, Karachi.	PCR Work Station, Purifier ® Filtered PCR Enclosures, Work Station Labconco®, Company BDH MIDDLE EAST L.L.C. Made by UK	Rs.5,011,875/-
3.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Clean Bench, Model: MaXtream V12, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year. <u>Specifications:</u> - Dimension (w x d x h): Interior: 1,200 x 660 x 610, Air Volume: 1,350 m2/h, Air Flow Velocity: 8 Steps, 0.3 ~ 0.6 m/s, HEPA Filter: Class 100, 0.3um Particle Removal 99.97%, Prefilter: 3~30um Particle Removal, Display: Back Light LCD, Controller: Microprocessor Digital Controller with Touch UI, Lamp 1 x UV 20W, 1 x FL 36W, Noise: Level Under 65dBA, Door Type: Tempered Safety Glass Sliding Door, Utility Device: 1 x Air Cock, 1x Gas Cock, 2 x 220V Outlet, Material Internal: Stainless steel (# 304), External: Powder Coated steel, Power Supply: 220 volt, 50 / 60 Hz	Rs.684,500/-
4	M/S Musaji Adam & Sons, Karachi.	UV cabinet/PCR work station, Grant , Glass front, dual UV protection lamp and UV recirculator integral power socket, Model: UVT-B-AR	Rs.750,750/-

Sr. #	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S ScienTec Karachi	18	9	18	13	12	13	83
2	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	12	9	18	13	12	13	77
4	M/S Musaji Adam & Sons, Kyc.	18	9	12	13	12	9	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S ScienTec Karachi	Technical points 83 X 0.60 = 49.8 + 38.29 = 88.09 1st lower as cumulative marks.
2	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 5.46 = 42.06
3	M/S Scientific Technical Corporation (Pvt.) LHR	Technical points 77 X 0.60 = 46.2 + 40 = 86.2
4	M/S Musaji Adam & Sons, Karachi.	Technical points 73 X 0.60 = 43.8 + 36.47 = 80.27



3.	<b>Tube Rotator/Shaker.</b> Lab mixer at variable angle and variable speed Oscillation: up to 300 <sup>0</sup> , Rotation: 360 <sup>0</sup> , variable speed from 1-100 rpm, continuous and times operation, Voltage: 220-240V/ 12V with adaptor, Tube holder plates to fit a variety of tubes (micro tubes/ blood anticoagulant tubes) Capacity: Tube holder platform 1 or 2, Thermo, Labnet, Fisher Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	Vertical Multi Function Rotator, Model: PTR-35, Make: Grant Instruments, UK, Key Features: 360° vertical rotation, reciprocation and vibration, functions all in one compact product, Choice of two models with different tube capacities, Vertical rotation speed: 1 to 100 rpm, Reciprocal rotation: 1 to 90° turning angle, vibration: programmable in a burst of 1 to 5 seconds, Fully programmable sequence of functions, including pause, Optional extra platforms to accommodate microplates and tubes up to 50ml see p 9.10.	Rs.189,550/-
2	M/S World Wide Scientific Karachi	Cat # BS-010117-AAG , Multi Bio RS-24, Multi-Rotators provides several motion types in one instrument substantially increasing the options and effectiveness. Several options in one instrument: 1. Rotation, 2. Reciprocal Rotation, 3. Vibro, Specifications: Speed Range: 1-100rpm, Timer: 0-250s, Turning angle: 1-90°, for Vibro: 0-5°(step1°), With Platforms: PRS-22(standard) and PRS-4/12(optional), M/s BioSan Latvia	Rs.395,000/-
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	Programmable Digital Rotator, With Digital Feedback Control, <u>WITHOUT TUBE HOLDER</u> , Model: RT-10, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, <u>Technical Specification:</u> Speed range: 5 ~ 60rpm, Angle range:0° ~ 90° Motor: 35W, Program Function: 10 steps, 6 programs, Timer and Alarm: 99hr 59min (with continuous run), error status and timer end., Display: Digital LCD with back light function. Controller: Programmable Digital feedback controller with jog shuttle. Temp Resistance: Lower than 65°C (Dry air). Dimension (w x d x h mm): 200 x 250 x h260. Power consumption: 40W, Power Supply: 230VAC, 50/60Hz	Rs.210,000/-
		Including: Knob & Post "WRT300"	
		A. Disk "WRT100" for 50 ml conical tube, Cat. No. DH.WRT00100	Rs.30,700/-
		<b>Total:</b>	<b>Rs.240,700/-</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S ScienTec Karachi	18	9	0	13	12	13	65
2	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	12	9	18	9	12	13	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points 65 X 0.60 = 39.0 + 40.0 = 79.00 1st lowest as per cumulative marks.
2	M/S World Wide Scientific Karachi	Technical points 55 X 0.60 = 33.0 + 19.19 = 52.19.
3	M/S Scientific Technical Corporation, Lahore.	Technical points 73 X 0.60 = 43.8 + 31.50 = 75.30.



4.	<b>Autoclave 50 liters capacity</b> , 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.
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Vertical Sterilizer, Model: JSM75L P.L. Capacity: 75 Liters, Useful Capacity: 60 Liters, Control: PLC Microprocessor, Program: Sterilization Temperature : ( $^{\circ}\text{C}$ ) 100.0°C to 136.0°C, Sterilization Time (min): 1 minute to 90 minutes, Useful Dim: $\varnothing$ 40 x 60cm, Exterior Dim: 645x672x915 HxWxD mm, Power : 7500w, Power Supply: 3 Phase 400V- 50Hz, Water Supply: ½ Inches, Sewer- Temp Resistant: 3/4 ", Cycles: Kind of Material, Solids 1, Solid Material/ Clean Material, Solids 2, Decontamination and Media Culture, Liquids L , Liquid Media Culture / Liquids (control by the liquids temperature sensor), Liquids C Liquid Media Culture / Liquids (control by the chamber temperature sensor), Terms and Conditions, Supplier: PROHS · Portugal, Country Origin: Portugal, Warranty: 12 Months.	Rs.4,740,120
2.	M/S A.J. Enterprises, Karachi	Autoclave Zealway 50 Liter, Capacity: 50 Liter, Outer Dimension: 460x542x1070mm, Rated Power Supply: 220V 50 Hz/60Hz, Rated Power 2600, Microcomputer Control system, LED Screen shows the dynamic sterilization process, Top Loading, Sterilization Time: 1-300min, Warranty: 01 Year	Rs.725,000/-
3.	M/S World Wide Scientific Karachi	DIGITAL AUTOCLAVE, MODEL NO: SH-AC60 , <b>FETURES:</b> One Touch Door System, By turning Four Arm Locker, SH-AC60 can be blocked completely from outside. Thus it is very convenient to use. Full Auto Sterilizer. With only simple initial temperature setting, SH-AC60 can proceed whole process such as sterilization automatically. Excellent Temperature Stability, SH-AC60 has supreme temperature stability at 1210C +0.50C and user can see during the experiment. Safety Device, As SH-AC60 has electrically and physically double safety device and is safe enough to cope with temperature over-heating and over-pressure, there is no dangerous factors during experiment. Time Schedule Operation User can sterilize during his required sterilization time zone because he can set sterilization time zone. When the time arrives at setting time, Alarm sound rings and exhaust the steam in Sterilizer automatically., <b>TECHNICAL SPECIFICATIONS:</b> Using Temp:121°C, <b>Using Press:</b> 1.2 to 1.3 Kg/cm <sup>2</sup> , <b>Time Controller:</b> Microprocessor Digital P I D Controller, <b>Sterling time:</b> 00.00 to 99HR 59MIN (MIN SEC) Selectable, Temp Accuracy & Stability: $\pm 0.1^{\circ}\text{C}$ , <b>Pressure Gauge:</b> Mechanical type 0 to 3 Kg/cm <sup>2</sup> , <b>Thermocouple:</b> R.T.D Type, <b>Dimension Internal:</b> 350×630 (Φ×H), <b>Dimension External:</b> 550×680×1060 (W×D×H), <b>Heater Capacity:</b> 3 KW, <b>Capacity:</b> 60 L, <b>Heater Element:</b> Stainless Steel Sheath Pipe Type, <b>Power:</b> 220V , 1Φ , 13.6A, <b>Safety Device:</b> Over Temp Protection Device, Over Press Protection Device, Sterilizing Time Arrived Buzzer On Automatic reset function incoming power cut, <b>M/s SAM HEUNG-KOREA.</b>	Rs.724,000/-



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Digital Fuzzy-Controlled, Autoclave with Electronic Door Lock System, Model: MaXterile-60, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, Specification: Capacity: 60 liters. Temp. Range: Ambient: $\pm 5^{\circ}\text{C}$ , to $132^{\circ}\text{C}$ , Temp. Accuracy: $\pm 0.5^{\circ}\text{C}$ at $121^{\circ}\text{C}$ , Pressure: $1.2\text{Kgf/cm}^2$ at $121^{\circ}\text{C}$ , $1.2\text{Kgf/cm}^2$ at $132^{\circ}\text{C}$ , Gauge: $0.3\text{kgf/cm}^2$ , Sterilization mode: solid or liquid mode. Heater power/consumption: 3KW, Timer and Alarm: 60min, Error status and timer end Display: Digital LCD display 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 Ø 40 mm, Material: Stainless Steel (# 304)-Pressure Vessel, Material External: Powder Coated Steel external, Basket: 2ea of stainless steel wire baskets are Included, Basket Dimension: Ø320xh240, Dimension (mm) (w x d x h) Inner (mm): Ø350xh650, Power Supply: 220 volt, 50 / 60 Hz	Rs.9,55,800/-

Sr. #.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement. 10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin. 15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	9	12	9	51
2	M/S A.J. Enterprises, Karachi	12	9	0	9	12	9	51
3	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
4	M/S Scientific Technical Corporation LHR.	12	9	18	9	12	13	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points $51 \times 0.60 = 30.6 + 6.11 = 36.71$
2.	M/S A.J. Enterprises, Karachi	Technical points $51 \times 0.60 = 30.6 + 39.94 = 70.54$
3.	M/S World Wide Scientific Karachi	Technical points $55 \times 0.60 = 33.0 + 40 = 73.0$
4.	M/S Scientific Technical Corporation, Lahore	Technical points $73 \times 0.60 = 43.8 + 30.29 = 74.09$ 1st lowest as per cumulative marks



5.	<b>UV protective Goggles</b> , lightweight design and flexible rubber trim fit comfortably on the face, even over prescription glasses. Air vents locat on each side of the goggles to allow air flow while blocking UV. comply with ANSI-Z87.1 1986 specifications for eye and face protection devices. Fisher, Roth or equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S Talha Enterprises, Karachi.	Anti-UV (2-1,2), Anti-Scratch, Anti-fog. Clear PC, Orange and Grey, Made by UK, Company BDH MIDDLE EAST L.L.C.	Rs.18,000/-
2	M/S World Wide Scientific Karachi	Cat # 9018.1UV-Safety spectacles astrospec, Scratchproof with permanently non-fogging , and antistatic lens, M/s Carl Roth Germany	Rs.17,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	9	12	13	55
2	M/S World Wide Scientific Karachi	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points $55 \times 0.60 = 33.0 + 37.77 = 70.77$
2	M/S World Wide Scientific Karachi	Technical points $65 \times 0.60 = 39.0 + 40 = 79.0$ 1st lowest as per cumulative marks.



6.	<b>Solar unit for 7KV supply</b> <b>a) Solar photovoltaic Panel/cell</b> (300watt/24volt) for 7000watts inverter, Type: Crystalline silicon, class A solar panels certified by TUV Nord, TUV Germany or any other similar agency registered with ILAC as per IEC 61215 and IEC 61730 standards Efficiency: $\geq 15\%$ , Fill factor: $\geq 72\%$ , Module frame: Non-corrosive and electrolytically Compatible with the mounting structure material. Module minimum rated power: The nominal power of a single PV module shall not be less than 300Wp, Warrantee: Panel output (Wp) capacity to be $\geq 90\%$ of design nominal power after 10 years and $\geq 80\%$ of design nominal power after 25 years, installation at site.
	<b>b) Inverter- Charge-controller, 7KV/7000watts,</b> Maximum power point (MPPT) tracking: shall be incorporated, Inverter efficiency: $\geq 95\%$ , Display type: LCD for data display. LCD / LED for status display, Display parameters to include: Output power (W), cumulative energy (Wh), DC voltage (V), DC current (A), AC voltage (V), AC frequency (Hz), AC current (A), cumulative hours of operation (h). Inverters certified as per EN50530, IEC 61683, 62109 - 1 and 2 and charge controls certified as per IEC 62093 standards. Warranty: Warranty of the inverter shall be two (2) years minimum for inverter and charge controller tenderer shall provide original/ copy of manufactures document in proof of this requirement for verification.
	<b>c) Wiring/cables,</b> permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.
	<b>d) Batteries for backup of 3 hours</b> Solar Deep cycle battery, solar Gel 1200V 200AH. Battery cycles not less than 1000 cycles at 50% depth of discharge, certification as per IEC 60896 and IEC 61427 standards with stand for batteries.

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S Ocean Green Chemical Service, Karachi.	<b>Solar Unit for 7KVA supply</b> , 1) Solar Panel Cat No. JC300M-24/Ab, Maximum Power 300W, Module efficiency 15.5% , Warranty 25Years, Supplied complete with stand and installation	Rs.3,766,650/-
		2) Solar Inverter Cat No XW=8548E or InfiniSolar 10KW, Warranty 2 years	
		3) Electric Wiring Complete	
		4) Gel Battery Cat No DG 12-200(12 V 200Ah) , Supplied with battery bank stand	
		The system comes complete with solar panel stand and battery bank stand. Country of origin of Solar Panel and Battery is China	
2	M/S Talha Enterprises, Karachi.	a). Solar Photovoltaic Panel 300Watt / 24 Volt (7000 Watt), 300Watt Solar Panel Structure, Solar Panel Warranty 25 Years , Including solar frame and complete installation, Parts in USA Manufacture in China Company Name (YINGLI SOLAR), Made in China	Rs.1,944,000/-
			Rs.202,500/-
		b). Inverter 7000 Watt 48 Volt DC, Warranty : Warranty of the inverter shall be five (3) years, Company Name Prostar), Made by Taiwan	Rs.421,875/-
		c). Wiring & Cabling Permissible temperature range, is 70-900C, Certified against IEC 60947 II & III , Change over between AC & DC interfaces.	Rs.84,375/-
		d). Solar Deep Cycle Battery Solar Gel 12Volt 200AH, Battery Cycle not less than 1200 Cycle at 50% DOD. Imported	Rs.432,000/- (4 batteries set)
		<b>Total</b>	<b>Rs.3,084,750/-</b>



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
3.	M/S World Wide Scientific Karachi	Solar Unit for 7KV Supply	Rs.4,595,000/-
		a) Solar photovoltaic Panel/ Cell , (300watt/24volt) for 7000watts, Inverter Type: Crystalline Silicon, Class A Solar panels certified with standards Efficiency: >=15%, Fill Factor: >=72%, Modules conform to: IEC61215, IEC61730, CE, ROHS, Warrantee: Panel output (Wp) capacity to be >=90% of design nominal power after 10 years and >=80% of 25years, Installation at site	
		b) Inverter- Chang Controller (7KV/7000watts), MPPT shall be incorporated, Inverter efficiency: >=95%, LCD display, Warranty: 2years.	
		c) Wiring /Cables: permissible temperature range is 70-900C, certified cable, installation at site	
		d) Batteries for backup of 3hours: Solar deep cycle battery, Solar gell Voltage Per Unit: 12 Capacity: 177 Ah@ 10hr-rate to 1.80V per cell @ 25° C, Max. Discharge Current: 2000A (5sec), Certified with stands for batteries.	
4	M/S Burraq Business Corporation, Hyderabad.	Set = 7KW 20 panels complete 6 batteries installation fixation.	Rs.4,195,000/-
		Leading cell and solar module technology guarantees the world class tability and reliability backed by 25 years linear performance warranty. All series of regular solar panels are manufactured to the strictest engeering guidelines, ensuring ech solar panet meets the internation standards of qualify and sefety. Standard solar panels are powered by 125x125mm (5inch) or 156x156mm (6 inch) high efficiency monocrytalline or poly-crystalline solar cells. The solar panels are suitable for all types of solar applications from large scale solar farms to residential and commercial roof-top systems. 25 years linear performance warranty. 10 years produce of warranty (material and work kmanship) 25 years linear solar panel power out put warranty. Certified by TUV Nord Germany or registered with 11AC as per ICE61215 and IEC 61730 standard. Frame non corrosive and electrolytically campatible with mounting material, Nominal power single PV not less then 300wp, Frame stand durable, non corrsive material made installation and fixture with concrete cement on site.	
		With inverter change over board. Maximum power point MPPT 95%, Display LCD/LED status. i. Output power(w), ii. cumulative energy 'with' iii. Voltage DC & AC. iv. current DC. v. Frequency AC, HZ. vi. current AC 'A'. vii. Cumulative hours of operation 'n'. Certified as per IEC 62093 standard warranty. Warranty 2 years. Original complete manufactures document in proof be provided.	
		Wire cables: setting wire from outer unit to inner unit. Drill retting the wire inside room. certified IEC 60947 II & III system, with energy meter (KWH) indicate total energy supplied by the system. Permissible temperature range 70-900°C .	
		Batteries: Solar deep cycle, gel 1200V 200AH, Cycle notless htan 1000, cycles at 50% depth discharge. Certified as per IEC 60896 and IEC 61427 standard, with stand for battery.	
		A. Stabimatic UK or both 10KW & 5KW. B. China Imported. C. Germany imported. D= Canada.	
		Complete kit common general complete work of all parts: Complete professional installation by trained team. After sale service, Training a person responsible of your office look after and operate the system on ward. On site installation of panel with durable non cosine stand and fixture with concrete cement. All the material branded. cleverly designed packing makes it easy to handle component at construction site.	



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit		
5	M/S Habib & Sons, Hyderabad.	<b>a).</b> 300 watts/24 volt Solar panel photovoltaic panel Type: Crystalline silicon, roof top solar mounting fixed type 7mm+10mm wire with installation and testing as per tender specification. Manufactured in china, life 25 years (warranty 10 years).	Rs.58,000/-	24 plates	1,392,000
		<b>b). 10kva/8000watts</b> Solar Hybrid inverter with 50A MPPT charge controller with installation and testing as per tender specification, Energy vision / inverex/ stabimatic, warranty 01 years.	Rs.425,000/-	1 No.	425,000
		<b>c) Wiring/cabels</b> , permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.	Rs.30,000/-		30,000
		<b>d).</b> 200AH AGM Dry Battery with installation and testing, Powersafe / Narada/lido, weight above 60KG.	Rs.55,000/-	4 Nos.	220,000
		<b>Total:</b>			<b>2,067,000</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement. 10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin. 15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Ocean Green Chemical Service, Kyc.	18	9	0	13	18	0	58
2	M/S Talha Enterprises, Karachi.	18	9	0	13	18	13	71
3.	M/S World Wide Scientific Karachi	18	9	0	13	18	9	67
4	M/S Burraq Business Corporation, Hyd	18	9	0	13	18	9	67
5	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	9	61

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Ocean Green Chemical Service, Karachi.	Technical points $58 \times 0.60 = 34.8 + 21.95 = 56.75$
2	M/S Talha Enterprises, Karachi.	Technical points $71 \times 0.60 = 42.6 + 26.80 = 69.40$
3.	M/S World Wide Scientific Karachi	Technical points $67 \times 0.60 = 40.2 + 17.99 = 58.19$
4	M/S Burraq Business Corporation, Hyderabad.	Technical points $67 \times 0.60 = 40.2 + 19.71 = 59.91$
5	M/S Habib & Sons, Hyderabad.	Technical points $61 \times 0.60 = 36.6 + 40 = 76.6$ 1st lowest as per cumulative marks.



7.	<b>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters</b> with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported. <b>with</b>
	<b>b). Microplate washer with accessories;</b> strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above
	<b>c) Computer with i5, Intel mother board and processor</b>
	<b>d) Dot matrix printer,</b> 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.

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Absorbance Microplate ELISA Reader: Model: ELX800 CE Certified with 04 Built in Filters: 405,450,490,630 nm, 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: 30secs single wavelength, Power: 100-240 VAC 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, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty: 12 Months	Rs.1,406,160/-
		B). a. Microplate ELISA Washer, Model: ELX50/8 CE Certified, Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300µL/well, 96-well, (16-channel), Operating: 15C to 40C, Biomagnetic Separation: No, Wash Cycles: 1 to 10, 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: 75 programs, Program linking, Overflow wash/overflow protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg), Power: Compatible with 100 to 240 V~ 10% at 50-60 Hz 4070513S 12-Channel Mnaifold, Manufacturer: Biotek Instruments INC USA, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty : 12 Months	Rs.1,655,640/-
		c). Computer Core i5, System: Dell 3020, CPU Speed: Core i5 3.0, Ram:8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish; 500 GB, DVD / DVD RW / CD, Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing Tower: LCD Dell 18.5	Rs.155,790/-
		d). Dot Matrix Printer, Model Epson LQ 350	Rs.56,700/-
		<b>Total</b>	<b>Rs.3,274,290/-</b>



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
2.	M/S Scientific Technical Corporation (Pvt.) Lahore.	ELISA Reader, Washer, Computer and Printer	
		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, Software: Gen5 Reader Control Software, Onboard software: 55 user-programmable protocols, Absorbance: Light source: Tungsten halogen, Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Bandwidth:10 nm, Dynamic range: 0 to 3.0 OD, Resolution: 0.001 OD, Filter wheel capacity: 5 positions, OD accuracy: <1% at 2.0 OD, OD linearity:<1% at 2.0 OD, <3% at 3.0 OD, OD repeatability: <0.5% at 2.0 OD, Reading speed: 96 wells: 30 seconds, 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: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant.	Rs.708,000/-
		B. Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Country of Origin: USA. Warranty: 3 Years, 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: <u>Solid bottom plates</u> , 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds, Volume Range: 25 - 3,000 µL/well (configuration dependent), Selectable in 1µL 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: 2L, 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: CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.	Rs.708,000/-
		Data Analysis Software , Model: Gen5™, BIOTEK INSTRUMENTS, INC., USA.	Rs.153,400/-
		B) Dot Matrix Printer, Epson, Warranty: One Year	Rs.47,000/-
		C). Computer System , Core i5 with Intel Mother Board and Processor, Standard Specification , Local Arrangement	Rs.100,500/-
		<b>Total:</b>	<b>Rs.1,716,900/-</b>
3.	M/S S.K. Trading Corporation Karachi.	<b>ELISA Reader, Washer, computer and printer. ELISA SYSTEM, a) Microplate Reader, Model: AMR-100, Allsheng / Tomos Life Sciences , Singapore</b> , Feature: • Easy of use with 7 inch touch screen together with 3 external keys. • A broad wavelength range of 340-750nm. • Able to use individually or connect with PC and export results. • Absorbance range: 0.0~4.000Abs. <b>Software</b> AMR-100 keeps with high visual and logical user interface of software, it can be offered a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, qualitative classification and kinetic calculations, as well as the versatile reporting tool and make data reduction.	Rs.1,150,000/-
		<b>b) Microplate Washer, Model: APW-100, Allsheng / Tomos Life Sciences, Singapore</b> , Features: • Low residual liquid, each well ≤0.5µl, • Compatible for microplates: flat, U, V, C bottom, • 4.3 inch color LCD display, easy to operate. • Washing head position can accurate to 0.1mm. • Wash parameters can be set to make sure the best washing effect.	
		<b>c) Computer with i5, Intel mother board and processor</b>	
		<b>d) Dot matrix printer</b> , 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,	



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Chemical House, Korangi Karachi.	<p><b>A).</b> Part No. 94196, Elisa Plate Reader, PR 4100 Absorbance Microplate Reader, Includes Notebook mini-PC, 405, 550, 492, 620 nm filters, USB key with Bio-Rad pre-programmed methods (APF) with manuals and software, 1 unit , The PR 4100 microplate reader is the next generation 8-channel absorbance microplate reader by Bio-Rad. It provides accurate, reproducible and fast measurements out of a compact and innovative design. Controlled via a Notebook PC, the system is validated with the complete menu of Bio-Rad EIA tests. Improved Reliability :- Latest LED Technology for long life and maintenance free operation :- 8-channel absorbance microplate reader for fast measurements, :- Comprehensive QC function with multicheck plate, Innovative Design: :- Compact foot-print, :- Standalone reader operated through a Notebook PC, :- Windows® 7-based software, Comprehensive Data Analysis Software: Validated protocols according to Bio-Rad quality assurance process, Power Data Analysis with full qualitative and quantitative EIA analysis, Full traceability, :- Complies with 98/79 EC IVD-D &amp; FDA 21 CFR part 11, Specifications: PR4100 Microplate Reader - General, Dimensions Width: 34.7 cm , Depth: 18.9 cm, Height: 13.4 cm, Weight 2.6 kg (power supply included), Ambient temperature Operation: 15 °C to 35 °C (59 °F to 95 °F) , Storage: -30 °C to 60 °C (-22 °F to 140 °F) , Measurement Specifications: Measurement time Single wavelength: &lt; 15 seconds, Dual wavelength: &lt; 20 seconds, Installed filters 405, 450, 492, 550 and 620 nm, Resolution 0.0001 OD, Accuracy: 450, 492 nm 0.000 -2.000 OD: (1.0 % + 0.010 OD)* 2.000 -3.000 OD: (1.5 % + 0.010 OD)* , Precision: 450, 492 nm 0.000 -2.000 OD: (0.5 % + 0.005 OD)*, 2.000 -3.000 OD: (1.0 % + 0.005 OD)* Linearity: 450, 492 nm 0.000 -2.000 OD: 1 % 2.000 -3.000 OD: 1.5 %, Filter wavelength, accuracy: Central wavelength ± 2 nm, Filter bandwidth At 50 % transmission: 10 ± 2 nm, Light source LED, Computer interface USB 1.1 / 2.0, Bio-Rad Laboratories, USA</p>	Rs.701,883/-

Bid continued



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
		<b>B).</b> Part No. 85499K, Elisa Washer, PW40 8-Channel Manifold Microplate Washer, 8-channel microplate washer/aspirator with built-in vacuum and dispensing pumps; for use with 96-well flat, U-bottom or V-bottom plates (1 unit) , * Up to 75 programmable washing sequences for customized protocols. * Easily removable 8- or 12-channel manifolds. * Easily Accessible manifold interior for cleaning and maintenance. * Removable and autoclavable plate carrier * Standard aerosol protection cover * Integrated vacuum and dispensing pumps to ensure accurate and quiet washing and to eliminate the need for external pumps. Dimensions (W x L x H): 368 x 530 x 243 mm Weight: 10.1 kg   12.4 kg, Input voltage and frequency: 110-120 V or 220-240 V / 50-60Hz Output: 100 VA max. Operating conditions: 15-30°C/15-85%RH, Performance: Precision : +5% RSD (0.9% NaCl W/v), Wash volume: 50-3,000 µl per well, Residual well volume: < 2 µl per well, Storage capacity: Up to 75 kits, Soak time, In plate mode: 0-60 min per 1 sec interval, In strip mode: 0-16 min per 1 sec interval , Bio-Rad Laboratories.	Rs.349,830/-
		<b>C).</b> Computer with i5, Intel Mother board and processor	Rs.99,391.50
		<b>D).</b> Dot Matrix Printer, LQ-350. Epson	Rs.23,985/-
		<b>Total:</b>	<b>Rs.1,175,089.50</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	12	13	12	9	73
2.	M/S Scientific Technical Corporation (Pvt.) Lahore.	18	9	18	13	12	15	85
3.	M/S S.K. Trading Corporation Karachi.	12	9	18	9	12	15	75
4.	M/S Chemical House, Karachi	12	9	18	9	12	9	69

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 73 X 0.60 = 43.8 + 14.05 = 43.8
2.	M/S Scientific Technical Corporation, Lahore.	Technical points 85 X 0.60 = 51.0 + 26.79 = 77.79
3.	M/S S.K. Trading Corporation Karachi.	Technical points 75 X 0.60 = 45.0 + 40 = 85.0 1st lowest as per cumulative marks.
4.	M/S Chemical House, Korangi Karachi.	Technical points 69 X 0.60 = 41.4 + 39.15 = 80.55



8.	<b>Low voltage Split Air Conditioner</b> 1.5ton, Max. Ambient temperature 48 <sup>0</sup> C ±5%, Remote hand set, LED Display length of tubing: 15cm or as per installation requirement Auto restart at previous function settings electricity in put 220V/50Hz (single phase) Noise level indoor 39/31dBA (high/Low), Rotary compressor, outer unit rust resistant. Haier, Gree, Dawlance, Orient, Mitsubishi or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S A.J. Enterprises, Karachi	Split Air Conditioner 1.5 Ton Haier Low Voltage Series, Capacity: 1.5 Ton, 20% Power Saving with High Energy Efficient Compressor, Powerful Cooling, Works up to 52°C, Auto Restart after Power Restored, Child Lock, Concealed LED Display, Easy Clean (Indoor), Intelligent Air Flow, 24 Hours Timer, Evaporator Self-Cleaning, Auto Mode, Installation Kit 10 Feet with Installation, Warranty: 01 Year	Rs.88,000/-
2	M/S Burraq Business Corporation, Hyderabad.	Gree Model GS-18CZ8S, cooling capacity 1.5 Ton (18000BTU), Compressor W5300. Warranty 3 years compressor and 1 year parts.	Rs.138,500
3	M/S Habib & Sons, Hyd	Low voltage Split Air Conditioner (1.5ton), As per tender specification Orient /Haier	Rs.87,200/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	13	65
2	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65
3	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points 65 X 0.60 = 39.0 + 39.64 = 78.64
2	M/S Burraq Business Corporation, Hyderabad.	Technical points 65 X 0.60 = 39.0 + 27.46 = 66.46
3	M/S Habib & Sons, Hyderabad.	Technical points 65 X 0.60 = 39.0 + 40 = 79.0 1st lowest as per cumulative marks.



Purchase of Furniture/Fixture	
1	<b>Drawers in lab. Sections under the slab 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.</b>

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Drawers in Lab. Sections under the slab 4'.9" x 2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle. Imported Material (Per Sq Feet)	Rs.2,200/- per sq.ft. (Rs.24,794)
2.	M/S Burraq Business Corporation, Hyderabad	Drawer Lab. section: with glass paper, separate two sliding window section with 5mm glass door aluminum frame. with 12mm glass draws. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.	Rs.41,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 40 = 76.6 1st lowest as per cumulative marks
2.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 24.19 = 63.19



2	<b>Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) , Aluminum frame, space between drawer 22" high quality , sliding glass lock and handle. Imported Material (Per Sq Feet)	Rs.2,200/- per sq.ft. (Rs.344,960)
2.	M/S Burraq Business Corporation, Hyderabad	Fixture Administration Block: separate two panel partition height 7' each on 3'5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.	Rs.344,800/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points $61 \times 0.60 = 36.6 + 39.98 = 76.58$
2.	M/S Burraq Business Corporation, Hyderabad	Technical points $65 \times 0.60 = 39.0 + 40 = 79.0$ 1st lowest as per cumulative marks.



3.	<b>Fixture in Administrative Block, 11'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 11'x7'x1.6' (LxHxD), Aluminum frame, space between drawer 22" high , quality sliding glass lock and handle, Imported Material (Per Sq Feet)	Rs.2,200/- per Sq.ft. (Rs.271,040)
2.	M/S Burraq Business Corporation, Hyderabad	<p>Fixture Administration Block: separate two panel partition height 7' each on 3'5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD.</p> <p><b>Common Features:</b> Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.</p>	Rs.314,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 40 = 76.6 1st lowest as per cumulative marks
2.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 34.53 = 73.53



<b>4.</b>	<b>Visitors benches, stainless steel heavy duty three seaters for reception counter with back &amp; arm rests.</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S A.J. Enterprises, Karachi	Visitor Benches, Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.	Rs.19,000/-
2	M/S Burraq Business Corporation, Hyderabad	Stainless steel 3seator and total complete made in China imported. Heavy duty stainless steel material, 100% imported China. No local any part used even a keel, Long life, with arm S,S, Metallic material. Full frame steel chrome, Four finger base with non slippery maxi Ruben, Frame with back support fixed. No tilting. Leather seating cushion, Easy relax & soft reating with back support foam leather made. Full chrome hand, seating made with heavy S.S. material, seating with air little hole in seating.	Rs.31,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	9	61
2	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points 61 X 0.60 = 36.6 + 40 + = 76.6 1st lowest as per cumulative marks.
2	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 24.52 = 63.52





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



## **COMPARATIVE STATEMENT (TECHNICAL)**

**FOR PROCUREMENT  
OF  
"HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE"  
DURING THE FINANCIAL YEAR 2015-2016**

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



Eleven (11) firms purchased and participated in the tender:

1.	<b>M/S ScienTec Karachi.</b>
2.	<b>M/S Ocean Green Chemical Service, Karachi.</b>
3.	<b>M/S Talha Enterprises, Karachi.</b>
4.	<b>M/S A.J. Enterprises, Karachi.</b>
5.	<b>M/S World Wide Scientific Karachi</b>
6.	<b>M/S Burraq Business Corporation, Hyderabad.</b>
7.	<b>M/S Habib &amp; Sons, Hyderabad.</b>
8.	<b>M/S Scientific Technical Corporation (Pvt.) Lahore.</b>
9.	<b>M/S Musaji Adam &amp; Sons, Karachi.</b>
10.	<b>M/S S.K. Trading Corporation Karachi.</b>
11.	<b>M/S Chemical House, Korangi Karachi.</b>

<b>(DR. ASLAM PERVEZ UMRANI)</b> Director, Veterinary Research & Diagnosis CVDL Sindh, Tando Jam	(Ghulam Mustafa) Senior Auditor Representative of District Accounts Office, Hyderabad	<b>(Dr. Abdullah Mewati)</b> Director General , Livestock (Extension/Research) Sindh, Hyderabad .
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## **BID EVALUATION CRITERIA**

- a) The bids shall be ranked on the basis of combined weighted score for quality and cost. The tender shall be awarded to the bidder obtaining the highest total combined score in evaluation of Technical bid and Price (financial ) bid.
- b) The bids shall be ranked keeping in view the marks obtained on a scale of 100 marks during evaluation of bids. The technical and price (financial) bids shall enjoy weightage in the proportion of 60:40 i.e. 60% for the technical bid and 40% for the financial bid.

The financial bids of only those successful bidders who obtain minimum 50% point i.e. 50/100 in Technical evaluation will be opened for **financial evaluation**.

- c) Combined scores of respective bidders shall be obtained by sum of their respective technical bid scores (out of 60) and their respective price (financial) bid scores (out of 40).
- d) Technical literature is mandatory for technical evaluation , failing to do so will result zero in technical evaluation.
- e) (i) **Criteria for evaluation** of the technical bid of contractors.

- |  |     |
|--|-----|
| • Technical specification.   | 20% |
| • Packing size / doses/tests as per requirement.                     | 10% |
| • distribution certificate/ Authorization/Manufacturing certificate. | 20% |
| • Country of origin.   | 15% |
| • Warranty.  | 20% |
| • Previous experience.   | 15% |

<b>Total:</b>	<b>100</b>
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20%		15%		10%	
Higher than required	20	Higher than required	15	Higher than required	10
As per requirement	18	As per requirement	13	As per requirement	9
Similar to requirement	12	Similar to requirement	9	Similar to requirement	6
Below to requirement	0	Below to requirement	0	Below to requirement	0



Purchase of Hardware.	
1.	<b>Computers and Printers with all accessories as below are higher specification. Desktop computer</b> quad core i5 processor, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, <b>CPU and Memory:</b> Intel Core i5 quad core, 15-4460, Processor speed 3.2GHZ, 8GB RAM, <b>Hard drive:</b> 500GB SATA-III hard drive, <b>DVD optical drives:</b> read and write Dual layer, <b>Graphics:</b> , Shared Graphics, <b>Interfaces and connectivity:</b> 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. <b>Operating system and software,</b> Monitor LED 17", <b>with H.P. LASER JET 1020 or higher specification.</b> 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.

Sr. #	Name of firm	Technical Specification of the firm
1	M/S Talha Enterprises, Kyc	<b>Computer Core i5</b> , System: Dell 3020, CPU Speed: Core i5 3.0, Ram: 8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish:500 GB, DVD / DVD RW / CD: Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing: Tower, LCD: Dell 18.5, <b>Printer</b> Mode: HP1102
2	M/S A.J. Enterprises, Karachi	Computer with all accessories DELL OPTIPLEX (BROCHURE ATTACHED), Chipset: Intel H81 , Processor: Intel Core i5-4590 (Quad Core HT 3.3GHz/ 6MB Cache), Memory: 8GB DDR 3, Hard Drive: 500GB SATA HDD, 7200RPM, Optical Drive: 16x DVD+/-RW Drive, Graphics: Integrated Intel® HD Graphics 4600, Communication: Integrated 1000Gigabit Ethernet LAN, Wi-Fi Enabled, Ports & Connectors: 4 External USB 3.0 ports (2 front, 2 rear) and 6 External USB 2.0 ports (2 front, 4 rear, except USFF – 4 rear only) and 2 Internal, USB 2.0 (MT only); 1 RJ-45; 1 Serial; 1 VGA; 2 Display Port; 2 PS/2 (MT/SFF only); 2 Line-in (stereo/microphone), 2 Line-out, (headphone/speaker), Audio: High Definition audio system including microphone and headphone ports, line-out/line-in ports and a standard internal speaker, Accessories: Dell USB Keyboard, Dell Optical Mouse, Display: Dell LED Monitor 18.5" E1916H, Operating System: Windows 7 Genuine CD (Licensed), <b>PRINTER:</b> HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer
3	M/S Habib & Sons, Hyderabad.	Desktop computer quad core i5 processor, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, CPU and Memory: Intel Core i5 quad core, 15-4460, Processor speed 3.2GHZ, 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 AOL. Extras : Dust cover ,Headphone etc. <b>with H.P. LASER JET 1020 or higher specification.</b> 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

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	13	12	9	55
2	M/S A.J. Enterprises, Karachi	18	9	12	13	12	13	77
3	M/S Habib & Sons, Hyderabad.	12	9	0	0	12	13	46

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points 55 X 0.60 = 33.0
2	M/S A.J. Enterprises, Karachi	Technical points 77 X 0.60 = 46.2
3	M/S Habib & Sons, Hyderabad.	Bidder did not qualify technically, technical literature of computer not provided and only copied from bidding document except printer.

Purchase of Machinery & Equipment.	
1.	<b>Biological safety cabinet class-II</b> Type A-2 4ft (1.2m). External dimension (LxWxH: 31.5" - 33.5" x 51.2" - 55.9" x 60.6" - 61.8" Shash opening: 8"-10.8" Electrical Requirement: 220-230V 50/60Hz, Filter Type & efficiency: HEPA/ULPA 99.999MPPS, Certification/compliance: NSF/ANSI 49, Chamber material: stainless steel. Fluorescent lamps: Factory installed >1400LUX, Warranty: 3 years service & parts., <b>ESCO, NuAire, Thermo or exact equivalent</b>

Sr. #	Name of firm	Technical Specification of the firm
1.	M/S ScienTec Karachi	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Model: LA2-4A1. Accessories Included: UV Lamp for 4ft cabinet, Direct Mounted Electrical Outlet - Plug Code H. American Style Service Fixture with 40mm Thread Length - Universal, Support Stand with Caster Wheels (Height 28") for 4ft cabinets, Make:ESCO, Singapore. Each
2.	M/S Talha Enterprises, Karachi.	Biological Safety Cabinet Class II Type A2 4Feet, Model: 1386, Thermo Scientific 1300 Series Class II, 01, Type A2 Biological Safety Cabinets 4 FEET, Dimensions: Exterior Dimensions H x W x D inches (mm) 59.8 x 51.2 x 31.3 (1520 x 1300 x 795), Interior Dimensions H x W x D inches (mm) 30.7 x 47.2 x 19.5 (780 x 1200 x 495), Work Surface Area sq in (sq m) 930 (60), Weight: Net Weight lbs (kg) ~530 (~240), Shipping Weight lbs (kg) ~575 (~260) Ventilation System: Exhaust/Inflow Air Volume CFM (m3/h) 330 (530), Heat Emission: Heat Emission at 25°C ambient kW ~0.15, Filter Specification Supply/Exhaust Air Filter, HEPA H 14 EN 1822, 99.995% at 0.3 µm particle size Included : • Coated Intreiro Cabinet Walls, • Manual Adjustable Height Stand, • UV Light (Factory Installed), • One Set of Armrest, Manufacturer : Thermo Electron LED GmbH Langenselbold Germany, Country of Origin : USA, Warranty : 12 Months
3	M/S World Wide Scientific Karachi	Biological Safety Cabinet Class II A2, Model BSC-1300IIA2-X, Internal Size(W*D*H): 1150*600*660 mm, External Size(W*D*H): 1300*750*2250mm, Tested Opening: Safety Height 200 mm(8"), Max Opening: 420mm (17") ,Inflow Velocity: 0.53±0.025 m/s, Downflow Velocity: 0.33±0.025 m/s HEPA Filter: Two, 99.999% efficient at 0.3 um. Filter life indicator. Front Window: Motorized. Two-layer laminated toughened glass ≥ 5mm. Anti UV. Noise: EN12469 ≤ 58 dB / NSF49 ≤ 61 dB UV Lamp: 30W* 1 UV timer, UV life indicator, emission of 253.7 nanometers for most efficient decontamination. Fluorescent Lamp: 21W*2, Illumination: ≥1000Lux, Consumption: 800W, Waterproof Sockets: Two, total load of two sockets: 500W, Display: LCD display: exhaust filter and downflow filter, pressure,. filter and UV lamp working time, inflow and down flow velocity, filter life, humidity and temperature, system working time etc. Control System: Microprocessor Airflow System: 70% air recirculation, 30% air exhaust. Visual and audio alarm: Filter replacement, window over height, abnormal air flow velocity. Material: Work Zone: 304 stainless steel Main Body: Cold-rolled steel with anti-bacteria powder coating. Work Surface Height: 750mm, Caster: Footmaster caster, Power Supply:AC220V±10%, 50/60Hz; 110V±10%, 60Hz Standard Accessory: Fluorescent lamp, UV lamp*2 ,Base stand, Remote control, Foot switch, Drain valve, Waterproof sockets*2, Optional Accessory: Water and gas tap, Gross Weight: 280kg, Package Size(W*D*H):1460*1050*1800mm, Warranty: 5years, M/s Biobase



Sr. #	Name of firm	Technical Specification of the firm
4.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Cabinet Class II Type A2, Model: NU-425-400E. Nuaire. USA. Country of Origin: USA. <b>Warranty: 3 Years</b> , Meets the performance requirements of NSF/ANSI 49:2007, <b>Performance Specifications:</b> Personal Protection: NSF/ANSI 49, NSF Std. No. 49: Type A2 Class II, Style of Cabinet: Bench top/console w/base stand/storage cabinet, Cabinet Construction: All welded stainless steel 16GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal): Non-flammable, HEPA Filter Seal Type: Supply Filter-99.99% Eff. on 0.3microns: HEPEX Seal, Exhaust Filter-99.99% Eff. on 0.3 microns:Neoprene, Springload, Fumigation per NIH/NSF Procedure: Yes, Standard Services: Service Coupling (3/8 inch NPT): One, Right Sidewall, Gas Valve/Service Coupling (3/8" NPT):One, Right Sidewall, Duplex Outlet: Two, Backwall, Optional Services: Gas Cocks 3/8" NPT: Up to 3 ea. Sidewall, Remote Controlled Valves**: Up to 3 ea. Sidewall, Ultraviolet Light: One, Backwall, Standard/Cup Sinks: Left or Right Work Surf, Cabinet Size Inches (mm): Height (Fully Assembled): 63 (1600), Height (Minimum for Transport): 60 (1524), Width: 53 5/8 (1362), Depth (with Control Center): 32 7/8 (835), Work Access Opening Inches (mm): Standard Opening Height/Optional: 10 (254)/8 (203), Standard Inflow Velocity: 105 FPM (.53 m/s), Work Zone Inches (mm): Height: 28 1/2 (724), Width: 46 3/8 (1178), Depth: 23 1/2 (597), Viewing Window Inches (mm): Fully closed to Standard is tempered sliding glass: 19 1/2 (495) open, Hinged Tempered Glass (optional): 10 (254) opening, Required Exhaust CFM/CMH, Standard/Optional: Gas-Tight (NU-916/919): 338 (575) / 270 (459), Thimble (NU-918/917): 438 (739) / 370 (624), Thimble (NU-916): 462 (783) / 394 (667), Plant Duct Static Pressure Eng/Metric: 0.05-0.1"/1.27-2.54mm, Heat Rejected, BTU, Per Hour, (non-vented): 1693, (vented): 1110, Electrical: U.L./U.L.-C Listed, Volts, AC 60 Hz: 220, 12 ft. Power Cord (one): 14 GA - 3 Wire, 15A.
5	M/S Musaji Adam & Sons, Karachi.	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Esco Model: LA2-4A1

Sr. #	Name of firm	Technical Specification of the firm
6.	M/S S.K. Trading Corporation Karachi.	<p><b>Class II A2 Biological Safety Cabinet, Model: BSC-4FA2 (4'), Biobase Biodustry (Shandong) Co. , Ltd China, TUV, NSF, SFDA, CE, ISO, FDA, MET SGS Certified, Biosafety cabinet BSC-4FA2 (4'), pls receive and look. This model is get both American NSF49 and MET certificate, Model : BSC-4FA2(4'), External Size(W*D*H): 1383x775x2295mm, Internal Size(W*D*H): 1210x660x660mm, Work Surface Height: 750mm, Max Opening: 550mm (22"), Tested Opening: Safety height 200mm (8"), Air flow volume: (Inflow), 465m3/h(275cfm), Air flow volume: (Down flow) 64%:868m3/h(498cfm), Exhaust: 36%:488m3/h(287cfm), Front Window: Motorized. Two-layer laminated toughened glass ≥5mm. Anti UV, HEPA Filter: Two, 99.999% efficiency at 0.3um, Filter life indicator, Filter Guard Type: Aluminum alloy frame , Noise: NSF 49≤61 dB/EN 12469≤58 dB, Illumination: ≥1000Lux Display: LCD Display, Waterproof Socket: 2, Total consumption:≤500W, Ta:Water tap*1, Gas tap *1,Ground Resistance:≤ 0.10Ω,Power Supply:AC220/110V±10%, 50/60Hz ±1Hz, Full load Amps: 9A, BTU/Hr:1689, Consumption: 400 W, Alarm: Abnormal airflow velocity; Filter, change; Front Window over height, Motor: One ECM motor, 110V&amp; 220V acceptable, Speed adjustable, high efficiency and low power consumption,Material:Working area: 304stainless steel/ Frame and Decorative Plate: cold-rolled steel with anti-bacteria, power coating,UV Lamp: 30W,Germicidal UV lamp, Emission of 253.7 nanometers for most efficient decontamination,Standard Accessory:Fluo rescent lamp, UV lamp *2, Base,stand, SS water &amp; gas taps, Drain valve, Waterproof sockets, Stainless Steel I.V. Bar with 10 hooks,Optional Accessory:Armrest, Airflow tester, Formalin , fumigation sterilizer, Infrared sterilizer, Adjustable base stand, Remote control, Package Size (W*D*H): 1540*1080*1900mm, Gross Weight: 334 Kg.</b></p>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	18	9	18	13	12	13	83
2.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3	M/S World Wide Scientific Karachi	12	9	0	0	12	13	46
4.	M/S Scientific Technical Corporation, LHR	18	9	18	13	18	13	89
5	M/S Musaji Adam & Sons, Karachi.	18	9	12	13	12	9	73
6.	M/S S.K. Trading Corporation Karachi.	12	0	12	0	12	9	45

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points 83 X 0.60 = 49.8
2.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6
3	M/S World Wide Scientific Karachi	Bidder did not qualified technically.
4.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Technical points 89 X 0.60 = 53.4
5	M/S Musaji Adam & Sons, Karachi.	Technical points 73 X 0.60 = 43.8
6.	M/S S.K. Trading Corporation Karachi.	Bidder did not qualified technically.



2.	<b>PCR work station</b> , Provide ISO class 5 conditions for PCR work, Dimension Exterior: 35-40" x 24" x 37" (LxWxH) Lighting: Fluorescent & UV, Filter: HEPA/ULP, 99.999% efficiency Sash opening: 9-10" (Removable safety panel to close sash opening), Construction: White epoxy coated aluminum & steel, UV resistant thick safety glass sash and slides. utility ports, polished stainless steel work surface UV resistant polycarbonate / steel body, Warranty: one year ESCO, Thermo, Lab Conco, Sigma/Aldrich, USA Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm
1.	M/S ScienTec Karachi	UV cabinet/PCR workstation economy, Glass front, dual UV protection lamp and UV recirculator, integral power socket, Model: UVT-B-AR, Make: Grant Instruments,Uk
2	M/S Talha Enterprises, Karachi.	PCR Work Station, Purifier ® Filtered PCR Enclosures, Work Station Labconco®, Company BDH MIDDLE EAST L.L.C. Made by UK
3	M/S World Wide Scientific Karachi	PCR Work Station, Model: PCR-01 , External Size (W*D*H): 1000*705*1770mm Internal Size (W*D*H): 900*595*560mm Work Surface Height: 750mm Material: Main Body: Cold-rolled steel with anti-bacteria powder coating Work Table: 304 stainless steel Front & Side Windows: 5mm toughened glass , anti-UV, Manual front window , Max Opening: 320mm Pre-filter: olyester fiber, Washable, HEPA Filter: 99.999% efficiency at 0.3µm. Airflow Velocity: 0.3-0.5m/s, speed adjustable, Noise: ≤60dB UV Lamp:20W*2, Emission of 253.7 nanometers, with UV timer, Fluorescent Lamp: 40W*1 Illumination: >1000Lux Shelf with IV bar: Stainless steel, 495*140*55mm (W*D*H) Caster: Universal caster with leveling feet Consumption: 380W , Waterproof Socket: Two, total load≤500W Power Supply: AC 220V±10%, 50/60Hz;110V±10%,60Hz Standard Accessory:UV lamp*3, Fluorescent lamp, Base stand, Waterproof socket*2, Shelf with IV bar , M/s Biobase
4.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Clean Bench, Model: MaXtream V12, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year. <u>Specifications:</u> - Dimension (w x d x h): Interior: 1,200 x 660 x 610, Air Volume: 1,350 m2/h, Air Flow Velocity: 8 Steps, 0.3 ~ 0.6 m/s, HEPA Filter: Class 100, 0.3um Particle Removal 99.97%, Prefilter: 3~30um Particle Removal, Display: Back Light LCD, Controller: Microprocessor Digital Controller with Touch UI, Lamp 1 x UV 20W, 1 x FL 36W, Noise: Level Under 65dBA, Door Type: Tempered Safety Glass Sliding Door, Utility Device: 1 x Air Cock, 1x Gas Cock, 2 x 220V Outlet, Material Internal: Stainless steel (# 304), External: Powder Coated steel, Power Supply: 220 volt, 50 / 60 Hz
5	M/S Musaji Adam & Sons, Karachi.	UV cabinet/PCR work station, Grant , Glass front, dual UV protection lamp and UV recirculator integral power socket, Model: UVT-B-AR

Sr. #	Name of firm	Technical Specification of the firm
6	M/S S.K. Trading Corporation Karachi.	PCR Work Station , Model: PCR-01, Biobase Biodustry (Shandong) Co. , Ltd China TUV, NSF, SFDA, CE, ISO, FDA, MET SGS Certified, Model : PCR-01, External Size (W*D*H) : 1000*705*1770mm, Internal Size (W*D*H): 900*595*560mm, Work Surface Height: 750mm, Material : Main Body: Cold-rolled steel with anti-bacteria powder coating , Work Table: 304 stainless steel . Front & Side Windows : 5mm toughened glass , anti-UV, Manual front window, Max Opening : 320mm , Pre-filter : Polyester fiber, Washable, HEPA Filter: 99.999% efficiency at 0.3µm. Airflow Velocity: 0.3-0.5m/s, speed adjustable, Noise : ≤60dB , UV Lamp: 20W*2, Emission of 253.7 nanometers, with UV timer, Fluorescent Lamp: 40W*1 , Illumination : >1000Lux , Shelf with IV bar: Stainless steel, 495*140*55mm (W*D*H), Caster: Universal caster with leveling feet Consumption: 380W, Waterproof Socket: Two, total load≤500W , Power Supply : AC 220V±10%, 50/60Hz;110V±10%,60Hz, Standard Accessory: UV lamp*3, Fluorescent lamp, Base stand, Waterproof socket*2, Shelf with IV bar Gross Weight :150kg, Package Size (W*D*H): 1160*920*1350mm

Sr. #	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S ScienTec Karachi	18	9	18	13	12	13	83
2	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3	M/S World Wide Scientific Karachi	12	6	0	0	0	13	31
4	M/S Scientific Technical Corporation (Pvt.) Lahore.	12	9	18	13	12	13	77
5	M/S Musaji Adam & Sons, Karachi.	18	9	12	13	12	9	73
6	M/S S.K. Trading Corporation Karachi.	12	6	18	0	0	9	45

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points 83 X 0.60 = 49.8
2	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6
3	M/S World Wide Scientific Karachi	Bidder did not qualify technically.
4.	M/S Scientific Technical Corporation (Pvt.) LHR	Technical points 77 X 0.60 = 46.2
5	M/S Musaji Adam & Sons, Karachi.	Technical points 73 X 0.60 = 43.8
6	M/S S.K. Trading Corporation Karachi.	Bidder did not qualify technically.



3.	<b>Tube Rotator/Shaker.</b> Lab mixer at variable angle and variable speed Oscillation: up to 300 <sup>0</sup> , Rotation: 360 <sup>0</sup> , variable speed from 1-100 rpm, continuous and times operation, Voltage: 220-240V/ 12V with adaptor, Tube holder plates to fit a variety of tubes (micro tubes/ blood anticoagulant tubes) Capacity: Tube holder platform 1 or 2, Thermo, Labnet, Fisher Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm
1.	M/S ScienTec Karachi	Vertical Multi Function Rotator, Model: PTR-35, Make: Grant Instruments, UK, Key Features: 360° vertical rotation, reciprocation and vibration, functions all in one compact product, Choice of two models with different tube capacities, Vertical rotation speed: 1 to 100 rpm, Reciprocal rotation: 1 to 90° turning angle, vibration: programmable in a burst of 1 to 5 seconds, Fully programmable sequence of functions, including pause, Optional extra platforms to accommodate microplates and tubes up to 50ml see p 9.10.
2	M/S Talha Enterprises, Karachi.	Tube Shaker, Model KJMR-V, Company BIOBASE, Made in China
3	M/S World Wide Scientific Karachi	Cat # BS-010117-AAG , Multi Bio RS-24, Multi-Rotators provides several motion types in one instrument substantially increasing the options and effectiveness. Several options in one instrument: 1. Rotation, 2. Reciprocal Rotation, 3. Vibro, Specifications: Speed Range: 1-100rpm, Timer: 0-250s, Turning angle: 1-90°, for Vibro: 0-5°(step1°), With Platforms: PRS-22(standard) and PRS-4/12(optional), M/s BioSan Latvia
4	M/S Scientific Technical Corporation (Pvt.) Lahore.	Programmable Digital Rotator, With Digital Feedback Control, <u>WITHOUT TUBE HOLDER</u> , Model: RT-10, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, <u>Technical Specification:</u> Speed range: 5 ~ 60rpm, Angle range:0 <sup>0</sup> ~ 90 <sup>0</sup> Motor: 35W, Program Function: 10 steps, 6 programs, Timer and Alarm: 99hr 59min (with continuous run), error status and timer end., Display: Digital LCD with back light function. Controller: Programmable Digital feedback controller with jog shuttle. Temp Resistance: Lower than 65 <sup>0</sup> C (Dry air). Dimension (w x d x h mm): 200 x 250 x h260. Power consumption: 40W, Power Supply: 230VAC, 50/60Hz
		Including: Knob & Post "WRT300"
		A. Disk "WRT100" for 50 ml conical tube, Cat. No. DH.WRT00100
5.	M/S Musaji Adam & Sons, Karachi.	Blood mixer: China, The operator can put in and take out the sample easily. While the speed is adjustable. The working face can be run circle for blending the blood in equal way in the containers and ensuring the accurate and repeatability of the testing results. Model:KJMR-1V

Sr. #	Name of firm	Technical Specification of the firm
6	M/S S.K. Trading Corporation Karachi.	<b>Tube Rotator/Shaker. Model: MX-RD-E, Dragon Laboratory Instrument Limited China, Classic Rotator,</b> The rotators give gentle but effective mixing of biological samples to be held in 1.5ml to 50ml micro tubes, used in a variety of applications including immune precipitations, prevention of blood coagulation, latex diagnostics etc. <b>Features:-</b> End-over-end or rolling action, gives gentle but effective mixing. - Adjustable speed range of 0 to 80rpm, - Used with a wide variety of accessories, - Continuous quiet operation

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	18	9	0	13	12	13	65
2	M/S Talha Enterprises, Karachi.	0	0	0	0	0	0	0
3	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
4	M/S Scientific Technical Corporation (Pvt.) Lahore.	12	9	18	9	12	13	73
5.	M/S Musaji Adam & Sons, Karachi.	0	0	0	0	0	0	0
6	M/S S.K. Trading Corporation Karachi.	12	9	12	0	0	13	46

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points 65 X 0.60 = 39.0
2	M/S Talha Enterprises, Karachi.	Bidder did not qualify. Technical literature not provided, bid considered zero.
3	M/S World Wide Scientific Karachi	Technical points 55 X 0.60 = 33.0
4	M/S Scientific Technical Corporation, Lahore.	Technical points 73 X 0.60 = 43.8
5.	M/S Musaji Adam & Sons, Karachi.	Bidder did not qualify. Technical literature not provided, bid considered zero.
6	M/S S.K. Trading Corporation Karachi.	Bidder did not qualify technically.



4.	<b>Autoclave 50 liters capacity</b> , 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.
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Sr. #	Name of firm	Technical Specification of the firm
1.	M/S ScienTec Karachi	Autoclave, 50Ltr, Model: FD50A, Make: SysTech,(Autoclave & Sterilizers), Key Feature: Microcomputer control system, Sterilization process can be pre-set and completed automatically, Solid mode, liquid mode, Simple and easily understandable control panel to show the sterilization temperature, sterilization time and drying time at the same time, pressing separate keys to set the temperature and time makes the operation easier, System automatically monitors the discharging of the cold air to guarantee a pure steam sterilization environment and optimal sterilization effects, LED screen clearly shows the dynamic sterilization process, 13 error detection procedures to monitor the normal operation of the instrument
2.	M/S Talha Enterprises, Karachi.	Vertical Sterilizer, Model: JSM75L P.L. Capacity: 75 Liters, Useful Capacity: 60 Liters, Control: PLC Microprocessor, Program: Sterilization Temperature : ( $^{\circ}\text{C}$ ) 100.0 $^{\circ}\text{C}$ to 136.0 $^{\circ}\text{C}$ , Sterilization Time (min): 1 minute to 90 minutes, Useful Dim: $\varnothing$ 40 x 60cm, Exterior Dim: 645x672x915 HxWxD mm, Power : 7500w, Power Supply: 3 Phase 400V- 50Hz, Water Supply: ½ Inches, Sewer- Temp Resistant: 3/4 “, Cycles: Kind of Material, Solids 1, Solid Material/ Clean Material, Solids 2, Decontamination and Media Culture, Liquids L , Liquid Media Culture / Liquids (control by the liquids temperature sensor), Liquids C Liquid Media Culture / Liquids (control by the chamber temperature sensor), Terms and Conditions, Supplier: PROHS · Portugal, Country Origin: Portugal, Warranty: 12 Months.
3.	M/S A.J. Enterprises, Karachi	Autoclave Zealway 50 Liter, Capacity: 50 Liter, Outer Dimension: 460x542x1070mm, Rated Power Supply: 220V 50 Hz/60Hz, Rated Power 2600, Microcomputer Control system, LED Screen shows the dynamic sterilization process, Top Loading, Sterilization Time: 1-300min, Warranty: 01 Year
4.	M/S World Wide Scientific Karachi	DIGITAL AUTOCLAVE, MODEL NO: SH-AC60 , <b>FETURES:</b> One Touch Door System, By turning Four Arm Locker, SH-AC60 can be blocked completely from outside. Thus it is very convenient to use. Full Auto Sterilizer. With only simple initial temperature setting, SH-AC60 can proceed whole process such as sterilization automatically. Excellent Temperature Stability, SH-AC60 has supreme temperature stability at 1210C +0.50C and user can see during the experiment. Safety Device, As SH-AC60 has electrically and physically double safety device and is safe enough to cope with temperature over-heating and over-pressure, there is no dangerous factors during experiment. Time Schedule Operation User can sterilize during his required sterilization time zone because he can set sterilization time zone. When the time arrives at setting time, Alarm sound rings and exhaust the steam in Sterilizer automatically., <b>TECHNICAL SPECIFICATIONS:</b> Using Temp:121 $^{\circ}\text{C}$ , <b>Using Press:</b> 1.2 to 1.3 Kg/cm $^2$ , <b>Time Controller:</b> Microprocessor Digital P I D Controller, <b>Sterling time:</b> 00.00 to 99HR 59MIN (MIN SEC) Selectable, Temp Accuracy & Stability: $\pm 0.1^{\circ}\text{C}$ , <b>Pressure Gauge:</b> Mechanical type 0 to 3 Kg/cm $^2$ , <b>Thermocouple:</b> R.T.D Type, <b>Dimension Internal:</b> 350x630 ( $\Phi$ xH), <b>Dimension External:</b> 550x680x1060 (WxDxH), <b>Heater Capacity:</b> 3 KW, <b>Capacity:</b> 60 L, <b>Heater Element:</b> Stainless Steel Sheath Pipe Type, <b>Power:</b> 220V , 1 $\Phi$ , 13.6A, <b>Safety Device:</b> Over Temp Protection Device, Over Press Protection Device, Sterilizing Time Arrived Buzzer On Automatic reset function incoming power cut, <b>M/s SAM HEUNG-KOREA.</b>
5.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Digital Fuzzy-Controlled, Autoclave with Electronic Door Lock System, Model: MaXterile-60, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, Specification: Capacity: 60 liters. Temp. Range: Ambient: $\pm 5^{\circ}\text{C}$ , to 132 $^{\circ}\text{C}$ , Temp. Accuracy: $\pm 0.5^{\circ}\text{C}$ at 121 $^{\circ}\text{C}$ , Pressure: 1.2Kg/cm $^2$ at 1210CKgf/cm $^2$ at 132 $^{\circ}\text{C}$ , Gauge: 0.3kgf/cm $^2$ , Sterilization mode: solid or liquid mode. Heater power/consumption:3KW, Timer and Alarm: 60min, Error status and timer end Display: Digital LCD display 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 $\varnothing$ 40 mm, Material: Stainless Steel (# 304)-Pressure Vessel, Material External: Powder Coated Steel external, Basket: 2ea of stainless steel wire baskets are Included, Basket Dimension: $\varnothing$ 320xh240, Dimension (mm) (w x d x h) Inner (mm): $\varnothing$ 350xh650, Power Supply: 220 volt, 50 / 60 Hz

Sr. #	Name of firm	Technical Specification of the firm
6.	M/S Musaji Adam & Sons, Karachi.	Autoclave, 50Ltr Capacity, SysTech, Simple and easily understandable control panel to show the sterilization temperature, sterilization time and drying time at the same time, Solid mode, liquid mode. (Autoclave & Sterilizers), LED screen clearly shows the dynamic sterilization process, 13 error detection procedures to monitor the normal operation of the instrument, Microcomputer control system, Model: FD50A
7.	M/S S.K. Trading Corporation Karachi.	Autoclave, Model: BKQ-B50II, Biobase Biodustry (Shandong) Co. , Ltd China, TUV, NSF, SFDA, CE, ISO, FDA, MET SGS Certified, Model: BKQ-B50II, Capacity: 50L, Chamber material: 304 medical stainless steel, Max designed pressure: 0.28Mpa, Max designed temp: 150°C, Working pressure: 0.22MPa, Working temp range: 105-136°C, Temp accuracy: $\pm 1^\circ\text{C}$ , Timing range: 0-999min, Dynamic pulse exhaust times: 0~9 times, Dynamic pulse exhaust temp: 105~132, Dissolution temp range: 60~100°C(programmable) Temp holding range: 40~60°C(programmable), Power supply: AC220V,50/60Hz; 22A, Standard Accessories: Stainless steel basket*2pcs, Chamber size: $\phi 386 \times 50\text{mm}$ , Power consumption: 4.4KW, Outer size (W*D*H): 550*600*980mm, Net weight: 70KG.

Sr. #.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	0	0	0	0	0	0	0
2.	M/S Talha Enterprises, Karachi.	12	9	0	9	12	9	51
3.	M/S A.J. Enterprises, Karachi	12	9	0	9	12	9	51
4.	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
5.	M/S Scientific Technical Corporation LHR.	12	9	18	9	12	13	73
6.	M/S Musaji Adam & Sons, Karachi.	0	0	0	0	0	0	0
7.	M/S S.K. Trading Corporation Karachi.	12	9	18	0	0	9	48

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Bidder did not qualify. Technical literature not provided bid considered zero.
2.	M/S Talha Enterprises, Karachi.	Technical points $51 \times 0.60 = 30.6$
3.	M/S A.J. Enterprises, Karachi	Technical points $51 \times 0.60 = 30.6$
4.	M/S World Wide Scientific Karachi	Technical points $55 \times 0.60 = 33.0$
5.	M/S Scientific Technical Corporation, Lahore	Technical points $73 \times 0.60 = 43.8$
6.	M/S Musaji Adam & Sons, Karachi.	Bidder did not qualify. Technical literature not provided bid considered zero.
7.	M/S S.K. Trading Corporation Karachi.	Bidder did not qualify technically.



5.	<b>UV protective Goggles</b> , lightweight design and flexible rubber trim fit comfortably on the face, even over prescription glasses. Air vents locat on each side of the goggles to allow air flow while blocking UV. comply with ANSI-Z87.1 1986 specifications for eye and face protection devices. Fisher, Roth or equivalent
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Sr. #	Name of firm	Technical Specification of the firm
1	M/S Talha Enterprises, Karachi.	Anti-UV (2-1,2), Anti-Scratch, Anti-fog. Clear PC, Orange and Grey, Made by UK, Company BDH MIDDLE EAST L.L.C.
2	M/S World Wide Scientific Karachi	Cat # 9018.1UV-Safety spectacles astrospec, Scratchproof with permanently non-fogging , and antistatic lens, M/s Carl Roth Germany

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	9	12	13	55
2	M/S World Wide Scientific Karachi	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points 55 X 0.60 = 33.0
2	M/S World Wide Scientific Karachi	Technical points 65 X 0.60 = 39.0

6.	<b>Solar unit for 7KV supply</b> <b>a) Solar photovoltaic Panel/cell</b> (300watt/24volt) for 7000watts inverter, Type: Crystalline silicon, class A solar panels certified by TUV Nord, TUV Germany or any other similar agency registered with ILAC as per IEC 61215 and IEC 61730 standards Efficiency: $\geq 15\%$ , Fill factor: $\geq 72\%$ , Module frame: Non-corrosive and electrolytically Compatible with the mounting structure material. Module minimum rated power: The nominal power of a single PV module shall not be less than 300Wp, Warrantee: Panel output (Wp) capacity to be $\geq 90\%$ of design nominal power after 10 years and $\geq 80\%$ of design nominal power after 25 years, installation at site.
	<b>b) Inverter- Charge-controller, 7KV/7000watts,</b> Maximum power point (MPPT) tracking: shall be incorporated, Inverter efficiency: $\geq 95\%$ , Display type: LCD for data display. LCD / LED for status display, Display parameters to include: Output power (W), cumulative energy (Wh), DC voltage (V), DC current (A), AC voltage (V), AC frequency (Hz), AC current (A), cumulative hours of operation (h). Inverters certified as per EN50530, IEC 61683, 62109 - 1 and 2 and charge controls certified as per IEC 62093 standards. Warranty: Warranty of the inverter shall be two (2) years minimum for inverter and charge controller tenderer shall provide original/ copy of manufactures document in proof of this requirement for verification.
	<b>c) Wiring/cables,</b> permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.
	<b>d) Batteries for backup of 3 hours</b> Solar Deep cycle battery, solar Gel 1200V 200AH. Battery cycles not less than 1000 cycles at 50% depth of discharge, certification as per IEC 60896 and IEC 61427 standards with stand for batteries.

Sr. #	Name of firm	Technical Specification of the firm
1	M/S Ocean Green Chemical Service, Karachi.	<b>Solar Unit for 7KVA supply</b> , 1) Solar Panel Cat No. JC300M-24/Ab, Maximum Power 300W, Module efficiency 15.5%, Warranty 25Years, Supplied complete with stand and installation
		2) Solar Inverter Cat No XW=8548E or InfiniSolar 10KW, Warranty 2 years
		3) Electric Wiring Complete
		4) Gel Battery Cat No DG 12-200(12 V 200Ah), Supplied with battery bank stand
		The system comes complete with solar panel stand and battery bank stand. Country of origin of Solar Panel and Battery is China
2	M/S Talha Enterprises, Karachi.	a). Solar Photovoltaic Panel 300Watt / 24 Volt (7000 Watt), 300Watt Solar Panel Structure, Solar Panel Warranty 25 Years, Including solar frame and complete installation, Parts in USA Manufacture in China Company Name (YINGLI SOLAR), Made in China
		b). Inverter 7000 Watt 48 Volt DC, Warranty : Warranty of the inverter shall be five (3) years, Company Name Prostar), Made by Taiwan
		c). Wiring & Cabling Permissible temperature range, is 70-900C, Certified against IEC 60947 II & III, Change over between AC & DC interfaces.
		d). Solar Deep Cycle Battery Solar Gel 12Volt 200AH, Battery Cycle not less than 1200 Cycle at 50% DOD. Imported

Sr. #	Name of firm	Technical Specification of the firm
3.	M/S World Wide Scientific Karachi	Solar Unit for 7KV Supply
		a) Solar photovoltaic Panel/ Cell , (300watt/24volt) for 7000watts, Inverter Type: Crystalline Silicon, Class A Solar panels certified with standards Efficiency: >=15%, Fill Factor: >=72%, Modules conform to: IEC61215, IEC61730, CE, ROHS, Warrantee: Panel output (Wp) capacity to be >=90% of design nominal power after 10 years and >=80% of 25years, Installation at site
		b) Inverter- Chang Controller (7KV/7000watts), MPPT shall be incorporated, Inverter efficiency: >=95%, LCD display, Warranty: 2years.
		c) Wiring /Cables: permissible temperature range is 70-900C, certified cable, installation at site
		d) Batteries for backup of 3hours: Solar deep cycle battery, Solar gell Voltage Per Unit: 12 Capacity: 177 Ah@ 10hr-rate to 1.80V per cell @ 25° C, Max. Discharge Current: 2000A (5sec), Certified with stands for batteries.
4	M/S Burraq Business Corporation, Hyderabad.	Set = 7KW 20 panels complete 6 batteries installation fixation.
		Leading cell and solar module technology guarantees the world class tability and reliability backed by 25 years linear performance warranty. All series of regular solar panels are manufactured to the strictest engeering guidelines, ensuring ech solar panet meets the internation standards of qualify and safety. Standard solar panels are powered by 125x125mm (5inch) or 156x156mm (6 inch) high efficiency monocrytalline or poly-crystalline solar cells. The solar panels are suitable for all types of solar applications from large scale solar farms to residential and commercial roof-top systems. 25 years linear performance warranty. 10 years produce of warranty (material and work kmanship) 25 years linear solar panel power out put warranty. Certified by TUV Nord Germany or registered with 11AC as per ICE61215 and IEC 61730 standard. Frame non corrosive and electrolytically campatible with mounting material, Nominal power single PV not less then 300wp, Frame stand durable, non corrsive material made installation and fixture with concrete cement on site.
		With inverter change over board. Maximum power point MPPT 95%, Display LCD/LED status. i. Output power(w), ii. cumulative energy 'with' iii. Voltage DC & AC. iv. current DC. v. Frequency AC, HZ. vi. current AC 'A'. vii. Cumulative hours of operation 'n'. Certified as per IEC 62093 standard warranty. Warranty 2 years. Original complete manufactures document in proof be provided.
		Wire cables: setting wire from outer unit to inner unit. Drill retting the wire inside room. certified IEC 60947 II & III system, with energy meter (KWH) indicate total energy supplied by the system. Permissible temperature range 70-900°C .
		Batteries: Solar deep cycle, gel 1200V 200AH, Cycle notless htan 1000, cycles at 50% depth discharge. Certified as per IEC 60896 and IEC 61427 standard, with stand for battery.
		A. Stabimatic UK or both 10KW & 5KW. B. China Imported. C. Germany imported. D= Canada.
		Complete kit common general complete work of all parts: Complete professional installation by trained team. After sale service, Training a person responsible of your office look after and operate the system on ward. On site installation of panel with durable non cosine stand and fixture with concrete cement. All the material branded. cleverly designed packing makes it easy to handle component at construction site.



Sr. #	Name of firm	Technical Specification of the firm
5	M/S Habib & Sons, Hyderabad.	<b>a).</b> 300 watts/24 volt Solar panel photovoltaic panel Type: Crystalline silicon, roof top solar mounting fixed type 7mm+10mm wire with installation and testing as per tender specification. Manufactured in china, life 25 years (warranty 10 years).
		<b>b). 10kva/8000watts</b> Solar Hybrid inverter with 50A MPPT charge controller with installation and testing as per tender specification, Energy vision / inverex/ stabimatic, warranty 01 years.
		<b>c) Wiring/cabels,</b> permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.
		<b>d).</b> 200AH AGM Dry Battery with installation and testing, Powesafe / Narada/lido, weight above 60KG.

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement. 10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin. 15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Ocean Green Chemical Service, Kyc.	18	9	0	13	18	0	58
2	M/S Talha Enterprises, Karachi.	18	9	0	13	18	13	71
3.	M/S World Wide Scientific Karachi	18	9	0	13	18	9	67
4	M/S Burraq Business Corporation, Hyd	18	9	0	13	18	9	67
5	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	9	61

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Ocean Green Chemical Service, Karachi.	Technical points 58 X 0.60 = 34.8
2	M/S Talha Enterprises, Karachi.	Technical points 71 X 0.60 = 42.6
3.	M/S World Wide Scientific Karachi	Technical points 67 X 0.60 = 40.2
4	M/S Burraq Business Corporation, Hyderabad.	Technical points 67 X 0.60 = 40.2
5	M/S Habib & Sons, Hyderabad.	Technical points 61 X 0.60 = 36.6

7.	<b>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters</b> with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported. <b>with</b>
	<b>b). Microplate washer with accessories;</b> strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above
	<b>c) Computer with i5, Intel mother board and processor</b>
	<b>d) Dot matrix printer,</b> 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.

Sr. #	Name of firm	Technical Specification of the firm
1.	M/S Talha Enterprises, Karachi.	<p>Absorbance Microplate ELISA Reader: Model: ELX800 CE Certified with 04 Built in Filters: 405,450,490,630 nm, 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: &lt;1% at 2.0 OD typical, OD linearity: &lt;1% at 2.0 OD typical &lt;3% at 3.0 OD typical, OD repeatability: &lt;0.5% at 2.0 OD typical, Reading speed: 30secs single wavelength, Power: 100-240 VAC 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, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty: 12 Months</p> <p>B). a. Microplate ELISA Washer, Model: ELX50/8 CE Certified, Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: &lt; 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: 75 programs, Program linking, Overflow wash/overflow protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg), Power: Compatible with 100 to 240 V~ i}10% at 50-60 Hz 4070513S 12-Channel Mnaifold, Manufacturer: Biotek Instruments INC USA, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty : 12 Months</p> <p>c). Computer Core i5, System: Dell 3020, CPU Speed: Core i5 3.0, Ram:8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish; 500 GB, DVD / DVD RW / CD, Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing Towor: LCD Dell 18.5</p> <p>d). Dot Matrix Printer, Model Epson LQ 350</p>

Sr. #	Name of firm	Technical Specification of the firm
2.	M/S A.J. Enterprises, Karachi	<p><b>7C.</b> Computer with i5 processor and Intel chipset, Processor: INTEL Core i5, 3.1Ghz (4C.4T), Motherboard:ASUS H81M-K, Memory: 4GB DDR-III Kingston, Hard Drive: 500GB Seagate SATA , Optical Drive: Asus DVD-RW 24x, Chassis: Legend ATX Casing with Standard Power Supply, Built-in Graphics, Built in Gigabit Ethernet, Built-in Audio High Definition, Display: 18.5" LED Viewsonic / ASUS, Keyboard USB, Mouse USB Optical, Warranty: 03 Years.</p> <p><b>7D.</b> Dot Matrix Printer Epson LX-350+II, Printing Method Impact dot matrix, Number of Pins: 24 pins, Number of columns: 80 columns, Needles: 24 Needles, PRINT Printing Speed: High Speed-Draft: 10cpi: 347 chars/s, LQ: 10cpi: 86 chars/s, Draft: 10 cpi: 260 chars/s, Carbon Copies:3 plus one original, Printing Resolution: 360 x 180 dpi, CONNECTIVITY Interfaces, USB 2.0 Type B, RS-232, Bidirectional parallel PAPER / MEDIA HANDLING, Document Feed: Single sheet rear, Continuous paper rear, Paper output rear, Paper Formats: Sheet Paper (single- and multi-layer), Continuous Paper (single- and multi-layer), Labels (single- and multi-layer), Roll Paper, Envelopes. GENERAL, Energy Use 22 W, Supply Voltage: AC 200 V - 240 V, Energy Star: Yes, Product dimensions: 348 x 275 x 154 mm (Width x Depth x Height), Product weight: 4.1 kg, Temperature: Operation 5°C - 35°C, Humidity, Operation 10% - 80%, Compatible Operating Systems, Windows 2000, Windows 7, Windows 8, Windows Vista, Windows XP, Included Software , Epson Status Monitor, Mean Time Between Failures, 10,000 Hours, Print Head Life: 400 Million Strokes/Wire, Sound Pressure, Operation: 53 dB (A), Memory:128kB included, Ribbon Yield, 2500000 characters Black Draft, Warranty: 01 Year</p>



Sr. #	Name of firm	Technical Specification of the firm
3.	M/S Scientific Technical Corporation (Pvt.) Lahore.	ELISA Reader, Washer, Computer and Printer
		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, Software: Gen5 Reader Control Software, Onboard software: 55 user-programmable protocols, Absorbance: Light source: Tungsten halogen, Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Bandwidth:10 nm, Dynamic range: 0 to 3.0 OD, Resolution: 0.001 OD, Filter wheel capacity: 5 positions, OD accuracy: <1% at 2.0 OD, OD linearity:<1% at 2.0 OD, <3% at 3.0 OD, OD repeatability: <0.5% at 2.0 OD, Reading speed: 96 wells: 30 seconds, 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: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant.
		<b>B.</b> Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Country of Origin: USA. Warranty: 3 Years, 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: <u>Solid bottom plates</u> , 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds, Volume Range: 25 - 3,000 µL/well (configuration dependent), Selectable in 1µL 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: 2L, 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: CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.
		Data Analysis Software , Model: Gen5™, BIOTEK INSTRUMENTS, INC., USA.
		B) Dot Matrix Printer, Epson, Warranty: One Year
		C). Computer System , Core i5 with Intel Mother Board and Processor, Standard Specification , Local Arrangement
4.	M/S S.K. Trading Corporation Karachi.	<b>ELISA Reader, Washer, computer and printer. ELISA SYSTEM, a) Microplate Reader, Model: AMR-100, Allsheng / Tomos Life Sciences , Singapore</b> , Feature: • Easy of use with 7 inch touch screen together with 3 external keys. • A broad wavelength range of 340-750nm. • Able to use individually or connect with PC and export results. • Absorbance range: 0.0~4.000Abs. <b>Software</b> AMR-100 keeps with high visual and logical user interface of software, it can be offered a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, qualitative classification and kinetic calculations, as well as the versatile reporting tool and make data reduction.
		<b>b) Microplate Washer, Model: APW-100, Allsheng / Tomos Life Sciences, Singapore</b> , Features: • Low residual liquid, each well ≤0.5µl, • Compatible for microplates: flat, U, V, C bottom, • 4.3 inch color LCD display, easy to operate. • Washing head position can accurate to 0.1mm. • Wash parameters can be set to make sure the best washing effect.
		<b>c) Computer with i5, Intel mother board and processor</b>
		<b>d) Dot matrix printer</b> , 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,

Sr. #	Name of firm	Technical Specification of the firm
5.	M/S Chemical House, Korangi Karachi.	<p><b>A).</b> Part No. 94196, Elisa Plate Reader, PR 4100 Absorbance Microplate Reader, Includes Notebook mini-PC, 405, 550, 492, 620 nm filters, USB key with Bio-Rad pre-programmed methods (APF) with manuals and software, 1 unit , The PR 4100 microplate reader is the next generation 8-channel absorbance microplate reader by Bio-Rad. It provides accurate, reproducible and fast measurements out of a compact and innovative design. Controlled via a Notebook PC, the system is validated with the complete menu of Bio-Rad EIA tests.Improved Reliability :- Latest LED Technology for long life and maintenance free operation :- 8-channel absorbance microplate reader for fast measurements, :- Comprehensive QC function with multichannel plate, Innovative Design: :- Compact foot-print, :- Standalone reader operated through a Notebook PC, :- Windows® 7-based software, Comprehensive Data Analysis Software: Validated protocols according to Bio-Rad quality assurance process, Power Data Analysis with full qualitative and quantitative EIA analysis, Full traceability, :- Complies with 98/79 EC IVD-D &amp; FDA 21 CFR part 11, Specifications: PR4100 Microplate Reader -General, Dimensions Width: 34.7 cm , Depth: 18.9 cm, Height: 13.4 cm, Weight 2.6 kg (power supply included), Ambient temperature Operation: 15 °C to 35 °C (59 °F to 95 °F) , Storage: -30 °C to 60 °C (-22 °F to 140 °F) , Measurement Specifications: Measurement time Single wavelength: &lt; 15 seconds, Dual wavelength: &lt; 20 seconds, Installed filters 405, 450, 492, 550 and 620 nm, Resolution 0.0001 OD, Accuracy: 450, 492 nm 0.000 -2.000 OD: (1.0 % + 0.010 OD)* 2.000 -3.000 OD: (1.5 % + 0.010 OD)* , Precision: 450, 492 nm 0.000 -2.000 OD: (0.5 % + 0.005 OD)*, 2.000 -3.000 OD: (1.0 % + 0.005 OD)* Linearity: 450, 492 nm 0.000 -2.000 OD: 1 % 2.000 - 3.000 OD: 1.5 %, Filter wavelength, accuracy: Central wavelength ± 2 nm, Filter bandwidth At 50 % transmission: 10 ± 2 nm, Light source LED, Computer interface USB 1.1 / 2.0, Bio-Rad Laboratories, USA</p>

Bid continued

Sr. #	Name of firm	Technical Specification of the firm
		<p><b>B).</b> Part No. 85499K, Elisa Washer, PW40 8-Channel Manifold Microplate Washer, 8-channel microplate washer/aspirator with built-in vacuum and dispensing pumps; for use with 96-well flat, U-bottom or V-bottom plates (1 unit) , * Up to 75 programmable washing sequences for customized protocols. * Easily removable 8- or 12-channel manifolds. * Easily Accessible manifold interior for cleaning and maintenance. * Removable and autoclavable plate carrier * Standard aerosol protection cover * Integrated vacuum and dispensing pumps to ensure accurate and quiet washing and to eliminate the need for external pumps. Dimensions (W x L x H): 368 x 530 x 243 mm Weight: 10.1 kg   12.4 kg, Input voltage and frequency: 110-120 V or 220-240 V / 50-60Hz Output: 100 VA max. Operating conditions: 15-30°C/15-85%RH, Performance: Precision : +5% RSD (0.9% NaCl W/v), Wash volume: 50-3,000 µl per well, Residual well volume: &lt; 2 µl per well, Storage capacity: Up to 75 kits, Soak time, In plate mode: 0-60 min per 1 sec interval, In strip mode: 0-16 min per 1 sec interval , Bio-Rad Laboratories.</p> <p><b>C).</b> Computer with i5, Intel Mother board and processor</p> <p><b>D).</b> Dot Matrix Printer, LQ-350. Epson</p>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	12	13	12	9	73
2.	M/S A.J. Enterprises, Karachi	0	0	0	0	0	0	0
3.	M/S Scientific Technical Corporation (Pvt.) Lahore.	18	9	18	13	12	15	85
4.	M/S S.K. Trading Corporation Karachi.	12	9	18	9	12	15	75
5.	M/S Chemical House, Karachi	12	9	18	9	12	9	69

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 73 X 0.60 = 43.8
2.	M/S A.J. Enterprises, Karachi	Bidder did not qualify technically, quoted only additional items.
3.	M/S Scientific Technical Corporation, Lahore.	Technical points 85 X 0.60 = 51.0
4.	M/S S.K. Trading Corporation Karachi.	Technical points 75 X 0.60 = 45.0
5.	M/S Chemical House, Korangi Karachi.	Technical points 69 X 0.60 = 41.4



8.	<b>Low voltage Split Air Conditioner</b> 1.5ton, Max. Ambient temperature 48 <sup>0</sup> C ±5%, Remote hand set, LED Display length of tubing: 15cm or as per installation requirement Auto restart at previous function settings electricity in put 220V/50Hz (single phase) Noise level indoor 39/31dBA (high/Low), Rotary compressor, outer unit rust resistant. Haier, Gree, Dawlance, Orient, Mitsubishi or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm
1	M/S A.J. Enterprises, Karachi	Split Air Conditioner 1.5 Ton Haier Low Voltage Series, Capacity: 1.5 Ton, 20% Power Saving with High Energy Efficient Compressor, Powerful Cooling, Works up to 52°C, Auto Restart after Power Restored, Child Lock, Concealed LED Display, Easy Clean (Indoor), Intelligent Air Flow, 24 Hours Timer, Evaporator Self-Cleaning, Auto Mode, Installation Kit 10 Feet with Installation, Warranty: 01 Year
2	M/S Burraq Business Corporation, Hyderabad.	Gree Model GS-18CZ8S, cooling capacity 1.5 Ton (18000BTU), Compressor W5300. Warranty 3 years compressor and 1 year parts.
3	M/S Habib & Sons, Hyd	Low voltage Split Air Conditioner (1.5ton), As per tender specification Orient /Haier

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	13	65
2	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65
3	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points 65 X 0.60 = 39.0
2	M/S Burraq Business Corporation, Hyderabad.	Technical points 65 X 0.60 = 39.0
3	M/S Habib & Sons, Hyderabad.	Technical points 65 X 0.60 = 39.0

Purchase of Furniture/Fixture	
1	<b>Drawers in lab. Sections under the slab 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.</b>

Sr. #	Name of firm	Technical Specification of the firm
1.	M/S Talha Enterprises, Karachi.	Drawers in Lab. Sections under the slab 4'.9" x 2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle. Imported Material (Per Sq Feet)
2.	M/S A.J. Enterprises, Karachi	Drawers in Lab, 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	Drawer Lab. section: with glass paper, separate two sliding window section with 5mm glass door aluminum frame. with 12mm glass draws. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum. .

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S A.J. Enterprises, Karachi	6	9	0	13	6	9	43
3.	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6
2.	M/S A.J. Enterprises, Karachi	Bidder did not qualify, not responded quarries.
3.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0

2	<b>Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle</b>
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Sr. #	Name of firm	Technical Specification of the firm
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) , Aluminum frame, space between drawer 22" high quality , sliding glass lock and handle. Imported Material (Per Sq Feet)
2.	M/S A.J. Enterprises, Karachi	Fixture In Administrative Block Size 14' x 7' 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	Fixture Administration Block: separate two panel partition height 7' each on 3'.5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S A.J. Enterprises, Karachi	6	9	0	13	6	9	43
3.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6
2.	M/S A.J. Enterprises, Karachi	Bidder did not qualify technically, not responded quarries.
3.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0



3.	<b>Fixture in Administrative Block, 11'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.</b>
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Sr. #	Name of firm	Technical Specification of the firm
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 11'x7'x1.6' (LxHxD), Aluminum frame, space between drawer 22" high , quality sliding glass lock and handle, Imported Material (Per Sq Feet)
2.	M/S A.J. Enterprises, Karachi	Fixture in Administrative Block Size 11' x 7' 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	Fixture Administration Block: separate two panel partition height 7' each on 3'.5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD. <b>Common Features:</b> Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best quality heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S A.J. Enterprises, Karachi	12	9	0	13	12	0	46
3.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6
2.	M/S A.J. Enterprises, Karachi	Bidder did not quality technically, not responded quarries.
3.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0

<b>4.</b>	<b>Visitors benches, stainless steel heavy duty three seaters for reception counter with back &amp; arm rests.</b>
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Sr. #	Name of firm	Technical Specification of the firm
1	M/S A.J. Enterprises, Karachi	Visitor Benches, Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.
2	M/S Burraq Business Corporation, Hyderabad	Stainless steel 3seator and total complete made in China imported. Heavy duty stainless steel material, 100% imported China. No local any part used even a keel, Long life, with arm S,S, Metallic material. Full frame steel chrome, Four finger base with non slippery maxi Ruben, Frame with back support fixed. No tilting. Leather seating cushion, Easy relax & soft reating with back support foam leather made. Full chrome hand, seating made with heavy S.S. material, seating with air little hole in seating.

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	9	61
2	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points 61 X 0.60 = 36.6
2	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0





GOVERNMENT OF SINDH  
LIVESTOCK AND FISHERIES DEPARTMENT

021-99204248

**NOTIFICATION**

NO.SO(DEV)/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
2. Representative of A.G. Sindh / DAO (Concerned)
3. Senior Technical Officer of office of Director/  
Project Director / Deputy Director / Superintendent  
Government Farm / DDO (Concerned)

Chairman

Member

Member

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

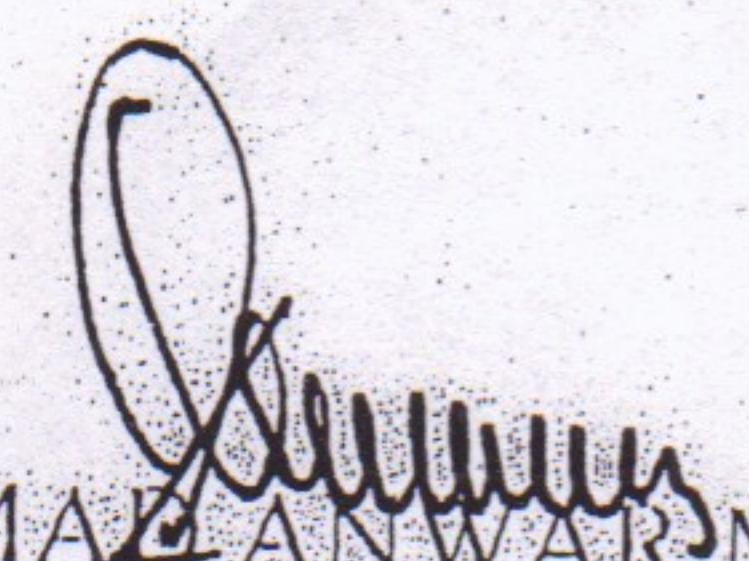
  
(NOOR MUHAMMAD LEGHARI)  
SECRETARY TO GOVT. OF SINDH

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.

  
(MUHAMMAD ANWAR MALIK)  
SECTION OFFICER (GENERAL)





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



## **EVALUATION/SCRUTINIZATION REPORT**

### **FOR PROCUREMENT OF "HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" DURING THE FINANCIAL YEAR 2015-2016**

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



**EVALUATION/SCRUTINIZATION REPORT FOR PROCUREMENT OF  
“HARDWARE, LABORATORY MACHINERY & EQUIPMENT AND  
FURNITURE/FIXTURE” FOR THE DIRECTORATE OF VETERINARY  
RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE  
FINANCIAL YEAR 2015-2016.**



The procurement of "Hardware, Machinery & Equipment and Furniture/Fixture", 11 firms purchased tender documents and submitted sealed tenders (Technical and Financial proposal/envelops).

**Technical Tenders** (proposal/envelops) were opened on 23-12-2015 @ 12.30hours by the Procurement Committee in its 1<sup>st</sup> meeting in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad. The specification of technical tenders as per cumulative marks was approved in 2<sup>nd</sup> meeting was held on 28-01-2016 @ 12.00noon and **financial tenders (proposal/envelops)** were opened on 28-01-2016 @ 12.30hours in its 3<sup>rd</sup> meeting in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad.

Financial comparative statement has been prepared for technically approved tendered items as per cumulative marks by the Procurement Committee meeting was held on 28-01-2016 @ 12.00noon in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad and evaluation report placed before the committee for approval of rates as per cumulative marks in favour of bidders.

The given below list of items as per comparative statement and evaluated/scrutinized cumulative total marks based on bid evaluation criteria is recommended for approval:

Eleven (11) firms purchased and participated in the tender:

1.	<b>M/S ScienTec Karachi.</b>
2.	<b>M/S Ocean Green Chemical Service, Karachi.</b>
3.	<b>M/S Talha Enterprises, Karachi.</b>
4.	<b>M/S A.J. Enterprises, Karachi.</b>
5.	<b>M/S World Wide Scientific Karachi</b>
6.	<b>M/S Burraq Business Corporation, Hyderabad.</b>
7.	<b>M/S Habib &amp; Sons, Hyderabad.</b>
8.	<b>M/S Scientific Technical Corporation (Pvt.) Lahore.</b>
9.	<b>M/S Musaji Adam &amp; Sons, Karachi.</b>
10.	<b>M/S S.K. Trading Corporation Karachi.</b>
11.	<b>M/S Chemical House, Korangi Karachi.</b>

<b>(DR. ASLAM PERVEZ UMRANI)</b> Director, Veterinary Research & Diagnosis CVDL Sindh, Tando Jam	(Ghulam Mustafa) Senior Auditor Representative of District Accounts Office, Hyderabad	<b>(Dr. Abdullah Mewati)</b> Director General , Livestock (Extension/Research) Sindh, Hyderabad .
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## **BID EVALUATION CRITERIA**

- a) The bids shall be ranked on the basis of combined weighted score for quality and cost. The tender shall be awarded to the bidder obtaining the highest total combined score in evaluation of Technical bid and Price (financial ) bid.
- b) The bids shall be ranked keeping in view the marks obtained on a scale of 100 marks during evaluation of bids. The technical and price (financial) bids shall enjoy weightage in the proportion of 60:40 i.e. 60% for the technical bid and 40% for the financial bid.

The financial bids of only those successful bidders who obtain minimum 50% point i.e. 50/100 in Technical evaluation will be opened for **financial evaluation**.

- c) Combined scores of respective bidders shall be obtained by sum of their respective technical bid scores (out of 60) and their respective price (financial) bid scores (out of 40).
- d) Technical literature is mandatory for technical evaluation , failing to do so will result zero in technical evaluation.
- e) (i) **Criteria for evaluation** of the technical bid of contractors.

- |  |     |
|--|-----|
| • Technical specification.   | 20% |
| • Packing size / doses/tests as per requirement.                     | 10% |
| • distribution certificate/ Authorization/Manufacturing certificate. | 20% |
| • Country of origin.   | 15% |
| • Warranty.  | 20% |
| • Previous experience.   | 15% |

<b>Total:</b>	<b>100</b>
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20%		15%		10%	
Higher than required	20	Higher than required	15	Higher than required	10
As per requirement	18	As per requirement	13	As per requirement	9
Similar to requirement	12	Similar to requirement	9	Similar to requirement	6
Below to requirement	0	Below to requirement	0	Below to requirement	0

## Purchase of Hardware.

1.	<p><b>Computers and Printers with all accessories as below are higher specification.</b></p> <p><b>Desktop computer</b> quad core i5 processor, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, <b>CPU and Memory:</b> Intel Core i5 quad core, 15-4460, Processor speed 3.2GHZ, 8GB RAM, <b>Hard drive:</b> 500GB SATA-III hard drive, <b>DVD optical drives:</b> read and write Dual layer, <b>Graphics:</b>, Shared Graphics, <b>Interfaces and connectivity:</b> 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. <b>Operating system and software,</b> Monitor LED 17". <b>with _H.P. LASER JET 1020 or higher specification.</b> 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	Technical Specification of the firm	Rate per unit
1	M/S Talha Enterprises, Karachi.	<b>Computer Core i5,</b> System: Dell 3020, CPU Speed: Core i5 3.0, Ram: 8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish: 500 GB, DVD / DVD RW / CD: Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing: Tower, LCD: Dell 18.5, <b>Printer</b> Mode: HP1102	Rs.185,000/-
2	M/S A.J. Enterprises, Karachi	Computer with all accessories DELL OPTIPLEX (BROCHURE ATTACHED), Chipset: Intel H81 , Processor: Intel Core i5-4590 (Quad Core HT 3.3GHz/ 6MB Cache), Memory: 8GB DDR 3, Hard Drive: 500GB SATA HDD, 7200RPM, Optical Drive: 16x DVD+/-RW Drive, Graphics: Integrated Intel® HD Graphics 4600, Communication: Integrated 1000Gigabit Ethernet LAN, Wi-Fi Enabled, Ports & Connectors: 4 External USB 3.0 ports (2 front, 2 rear) and 6 External USB 2.0 ports (2 front, 4 rear, except USFF – 4 rear only) and 2 Internal, USB 2.0 (MT only); 1 RJ-45; 1 Serial; 1 VGA; 2 Display Port; 2 PS/2 (MT/SFF only); 2 Line-in (stereo/microphone), 2 Line-out, (headphone/speaker), Audio: High Definition audio system including microphone and headphone ports, line-out/line-in ports and a standard internal speaker, Accessories: Dell USB Keyboard, Dell Optical Mouse, Display: Dell LED Monitor 18.5" E1916H, Operating System: Windows 7 Genuine CD (Licensed), <b>PRINTER:</b> HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer	Rs.164,100/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty . 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	13	12	9	55
2	M/S A.J. Enterprises, Karachi	18	9	12	13	12	13	77

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points $55 \times 0.60 = 33.0 + 35.48 = 68.48$
2	M/S A.J. Enterprises, Karachi	Technical points $77 \times 0.60 = 46.2 + 40 = 86.20$ 1st lowest as per cumulative marks.

Three firms participated, two firms quoted technical specification in agreement with tender specification. M/S A.J. Enterprises, Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 164,100/- each set as per given specification.



<b>Purchase of Machinery &amp; Equipment.</b>	
<b>1.</b>	<b>Biological safety cabinet class-II</b> Type A-2 4ft (1.2m). External dimension (LxWxH: 31.5" - 33.5" x 51.2" - 55.9" x 60.6" - 61.8" Shash opening: 8"-10.8" Electrical Requirement: 220-230V 50/60Hz, Filter Type & efficiency: HEPA/ULPA 99.999MPPS, Certification/compliance: NSF/ANSI 49, Chamber material: stainless steel. Fluorescent lamps: Factory installed >1400LUX, Warranty: 3 years service & parts., <b>ESCO, NuAire, Thermo or exact equivalent</b>

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Model: LA2-4A1. Accessories Included: UV Lamp for 4ft cabinet, Direct Mounted Electrical Outlet - Plug Code H. American Style Service Fixture with 40mm Thread Length - Universal, Support Stand with Caster Wheels (Height 28") for 4ft cabinets, Make:ESCO, Singapore. Each	Rs.1,299,000/-
2.	M/S Talha Enterprises, Karachi.	Biological Safety Cabinet Class II Type A2 4Feet, Model: 1386, Thermo Scientific 1300 Series Class II, 01, Type A2 Biological Safety Cabinets 4 FEET, Dimensions: Exterior Dimensions H x W x D inches (mm) 59.8 x 51.2 x 31.3 (1520 x 1300 x 795), Interior Dimensions H x W x D inches (mm) 30.7 x 47.2 x 19.5 (780 x 1200 x 495), Work Surface Area sq in (sq m) 930 (60), Weight: Net Weight lbs (kg) ~530 (~240), Shipping Weight lbs (kg) ~575 (~260) Ventilation System: Exhaust/Inflow Air Volume CFM (m3/h) 330 (530), Heat Emission: Heat Emission at 25°C ambient kW ~0.15, Filter Specification Supply/Exhaust Air Filter, HEPA H 14 EN 1822, 99.995% at 0.3 µm particle size Included : • Coated Intreiro Cabinet Walls, • Manual Adjustable Height Stand, • UV Light (Factory Installed), • One Set of Armrest, Manufacturer : Thermo Electron LED GmbH Langenselbold Germany, Country of Origin : USA, Warranty : 12 Months	Rs.3,583,440/-
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Cabinet Class II Type A2, Model: NU-425-400E. Nuaire. USA. Country of Origin: USA. <b>Warranty: 3 Years</b> , Meets the performance requirements of NSF/ANSI 49:2007, <b>Performance Specifications:</b> Personal Protection: NSF/ANSI 49, NSF Std. No. 49: Type A2 Class II, Style of Cabinet: Bench top/console w/base stand/storage cabinet, Cabinet Construction: All welded stainless steel 16GA, Type 304 pressure tight design, Diffuser for Air Supply (Metal): Non-flammable, HEPA Filter Seal Type: Supply Filter-99.99% Eff. on 0.3microns: HEPEX Seal, Exhaust Filter-99.99% Eff. on 0.3 microns:Neoprene, Springloade, Fumigation per NIH/NSF Procedure: Yes, Standard Services: Service Coupling (3/8 inch NPT): One, Right Sidewall, Gas Valve/Service Coupling (3/8" NPT):One, Right Sidewall, Duplex Outlet: Two, Backwall, Optional Services: Gas Cocks 3/8" NPT: Up to 3 ea. Sidewall, Remote Controlled Valves**: Up to 3 ea. Sidewall, Ultraviolet Light: One, Backwall, Standard/Cup Sinks: Left or Right Work Surf, Cabinet Size Inches (mm): Height (Fully Assembled): 63 (1600), Height (Minimum for Transport): 60 (1524), Width: 53 5/8 (1362), Depth (with Control Center): 32 7/8 (835), Work Access Opening Inches (mm): Standard Opening Height/Optional: 10 (254)/8 (203), Standard Inflow Velocity: 105 FPM (.53 m/s), Work Zone Inches (mm): Height: 28 1/2 (724), Width: 46 3/8 (1178), Depth: 23 1/2 (597), Viewing Window Inches (mm): Fully closed to Standard is tempered sliding glass: 19 1/2 (495) open, Hinged Tempered Glass (optional): 10 (254) opening, Required Exhaust CFM/CMH, Standard/Optional: Gas-Tight (NU-916/919): 338 (575) / 270 (459), Thimble (NU-918/917): 438 (739) / 370 (624), Thimble (NU-916): 462 (783) / 394 (667), Plant Duct Static Pressure Eng/Metric: 0.05-0.1"/1.27-2.54mm, Heat Rejected, BTU, Per Hour, (non-vented): 1693, (vented): 1110, Electrical: U.L./U.L.-C Listed, Volts, AC 60 Hz: 220, 12 ft. Power Cord (one): 14 GA - 3 Wire, 15A.	Rs.2,537,000/-

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Musaji Adam & Sons, Karachi.	Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Esco, Model: LA2-4A1	Rs.1,363,950/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	18	9	18	13	12	13	83
2.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3.	M/S Scientific Technical Corporation, LHR	18	9	18	13	18	13	89
4	M/S Musaji Adam & Sons, Karachi.	18	9	12	13	12	9	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points $83 \times 0.60 = 49.8 + 40 = 89.8$ 1st lowest as per cumulative marks
2.	M/S Talha Enterprises, Karachi.	Technical points $61 \times 0.60 = 36.6 + 13.71 = 50.31$
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	Technical points $89 \times 0.60 = 53.4 + 20.48 = 73.88$
4	M/S Musaji Adam & Sons, Karachi.	Technical points $73 \times 0.60 = 43.8 + 38.09 = 81.89$
Six firms participated, four firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 1,299,000/- each as per given specification.		



2.	<b>PCR work station</b> , Provide ISO class 5 conditions for PCR work, Dimension Exterior: 35-40" x 24" x 37" (LxWxH) Lighting: Fluorescent & UV, Filter: HEPA/ULP, 99.999% efficiency Sash opening: 9-10" (Removable safety panel to close sash opening), Construction: White epoxy coated aluminum & steel, UV resistant thick safety glass sash and slides. utility ports, polished stainless steel work surface UV resistant polycarbonate / steel body, Warranty: one year ESCO, Thermo, Lab Conco, Sigma/Aldrich, USA Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	UV cabinet/PCR workstation economy, Glass front, dual UV protection lamp and UV recirculator, integral power socket, Model: UVT-B-AR, Make: Grant Instruments,Uk	Rs.715,000/-
2	M/S Talha Enterprises, Karachi.	PCR Work Station, Purifier ® Filtered PCR Enclosures, Work Station Labconco®, Company BDH MIDDLE EAST L.L.C. Made by UK	Rs.5,011,875/-
3	M/S Scientific Technical Corporation (Pvt.) Lahore.	Laminar Flow Clean Bench, Model: MaXtream V12, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year. <u>Specifications:</u> - Dimension (w x d x h): Interior: 1,200 x 660 x 610, Air Volume: 1,350 m2/h, Air Flow Velocity: 8 Steps, 0.3 ~ 0.6 m/s, HEPA Filter: Class 100, 0.3um Particle Removal 99.97%, Prefilter: 3~30um Particle Removal, Display: Back Light LCD, Controller: Microprocessor Digital Controller with Touch UI, Lamp 1 x UV 20W, 1 x FL 36W, Noise: Level Under 65dBA, Door Type: Tempered Safety Glass Sliding Door, Utility Device: 1 x Air Cock, 1x Gas Cock, 2 x 220V Outlet, Material Internal: Stainless steel (# 304), External: Powder Coated steel, Power Supply: 220 volt, 50 / 60 Hz	Rs.684,500/-
4.	M/S Musaji Adam & Sons, Karachi.	UV cabinet/PCR work station, Grant , Glass front, dual UV protection lamp and UV recirculator integral power socket, Model: UVT-B-AR	Rs.750,750/-

Sr. #	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty . 20%	Previous experience 15%	Total marks
1	M/S ScienTec Karachi	18	9	18	13	12	13	83
2	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
3	M/S Scientific Technical Corporation, LHR.	12	9	18	13	12	13	77
4	M/S Musaji Adam & Sons, Karachi.	18	9	12	13	12	9	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S ScienTec Karachi	Technical points 83 X 0.60 = 49.8 + 38.29 = 88.09 1st lower as cumulative marks.
2	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 5.46 = 42.06
3	M/S Scientific Technical Corporation (Pvt.) LHR	Technical points 77 X 0.60 = 46.2 + 40 = 86.2
4	M/S Musaji Adam & Sons, Karachi.	Technical points 73 X 0.60 = 43.8 + 36.47 = 80.27

Six firms participated, four firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 715,000/- each as per given specification.

3.	<b>Tube Rotator/Shaker.</b> Lab mixer at variable angle and variable speed Oscillation: up to 300 <sup>0</sup> , Rotation: 360 <sup>0</sup> , variable speed from 1-100 rpm, continuous and times operation, Voltage: 220-240V/ 12V with adaptor, Tube holder plates to fit a variety of tubes (micro tubes/ blood anticoagulant tubes) Capacity: Tube holder platform 1 or 2, Thermo, Labnet, Fisher Scientific or exact equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S ScienTec Karachi	Vertical Multi Function Rotator, Model: PTR-35, Make: Grant Instruments, UK, Key Features: 360° vertical rotation, reciprocation and vibration, functions all in one compact product, Choice of two models with different tube capacities, Vertical rotation speed: 1 to 100 rpm, Reciprocal rotation: 1 to 90° turning angle, vibration: programmable in a burst of 1 to 5 seconds, Fully programmable sequence of functions, including pause, Optional extra platforms to accommodate microplates and tubes up to 50ml see p 9.10.	Rs.189,550/-
2	M/S World Wide Scientific Karachi	Cat # BS-010117-AAG , Multi Bio RS-24, Multi-Rotators provides several motion types in one instrument substantially increasing the options and effectiveness. Several options in one instrument: 1. Rotation, 2. Reciprocal Rotation, 3. Vibro, Specifications: Speed Range: 1-100rpm, Timer: 0-250s, Turning angle: 1-90°, for Vibro: 0-5°(step1°), With Platforms: PRS-22(standard) and PRS-4/12(optional), M/s BioSan Latvia	Rs.395,000/-
4	M/S Scientific Technical Corporation (Pvt.) Lahore.	Programmable Digital Rotator, With Digital Feedback Control, WITHOUT TUBE HOLDER , Model: RT-10, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, <u>Technical Specification:</u> Speed range: 5 ~ 60rpm, Angle range:0 <sup>0</sup> ~ 90 <sup>0</sup> Motor: 35W, Program Function: 10 steps, 6 programs, Timer and Alarm: 99hr 59min (with continuous run), error status and timer end., Display: Digital LCD with back light function. Controller: Programmable Digital feedback controller with jog shuttle. Temp Resistance: Lower than 65 <sup>0</sup> C (Dry air). Dimension (w x d x h mm): 200 x 250 x h260. Power consumption: 40W, Power Supply: 230VAC, 50/60Hz	Rs.210,000/-
		Including: Knob & Post "WRT300"	
		A. Disk "WRT100" for 50 ml conical tube, Cat. No. DH.WRT00100	Rs.30,700/-
		<b>Total:</b>	<b>Rs.240,700/-</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S ScienTec Karachi	18	9	0	13	12	13	65
2	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
3	M/S Scientific Technical Corporation,Lahore.	12	9	18	9	12	13	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S ScienTec Karachi	Technical points 65 X 0.60 = 39.0 + 40.0 = 79.00 1st lowest as per cumulative marks.
2	M/S World Wide Scientific Karachi	Technical points 55 X 0.60 = 33.0 + 19.19 = 52.19.
3	M/S Scientific Technical Corporation, Lahore.	Technical points 73 X 0.60 = 43.8 + 31.50 = 75.30.
Six firms participated, three firms quoted technical specification in agreement with tender specification. M/S ScienTec Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 189,550/- each as per given specification.		



4.	<b>Autoclave 50 liters capacity</b> , 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.
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Vertical Sterilizer, Model: JSM75L P.L. Capacity: 75 Liters, Useful Capacity: 60 Liters, Control: PLC Microprocessor, Program: Sterilization Temperature : ( $^{\circ}\text{C}$ ) 100.0 $^{\circ}\text{C}$ to 136.0 $^{\circ}\text{C}$ , Sterilization Time (min): 1 minute to 90 minutes, Useful Dim: $\varnothing$ 40 x 60cm, Exterior Dim: 645x672x915 HxWxD mm, Power : 7500w, Power Supply: 3 Phase 400V- 50Hz, Water Supply: ½ Inches, Sewer- Temp Resistant: 3/4 “, Cycles: Kind of Material, Solids 1, Solid Material/ Clean Material, Solids 2, Decontamination and Media Culture, Liquids L , Liquid Media Culture / Liquids (control by the liquids temperature sensor), Liquids C Liquid Media Culture / Liquids (control by the chamber temperature sensor), Terms and Conditions, Supplier: PROHS - Portugal, Country Origin: Portugal, Warranty: 12 Months.	Rs.4,740,120
2.	M/S A.J. Enterprises, Karachi	Autoclave Zealway 50 Liter, Capacity: 50 Liter, Outer Dimension: 460x542x1070mm, Rated Power Supply: 220V 50 Hz/60Hz, Rated Power 2600, Microcomputer Control system, LED Screen shows the dynamic sterilization process, Top Loading, Sterilization Time: 1-300min, Warranty: 01 Year	Rs.725,000/-
3.	M/S World Wide Scientific Karachi	DIGITAL AUTOCLAVE, MODEL NO: SH-AC60, <b>FETURES:</b> One Touch Door System, By turning Four Arm Locker, SH-AC60 can be blocked completely from outside. Thus it is very convenient to use. Full Auto Sterilizer. With only simple initial temperature setting, SH-AC60 can proceed whole process such as sterilization automatically. Excellent Temperature Stability, SH-AC60 has supreme temperature stability at 1210C +0.50C and user can see during the experiment. Safety Device, As SH-AC60 has electrically and physically double safety device and is safe enough to cope with temperature over-heating and over-pressure, there is no dangerous factors during experiment. Time Schedule Operation User can sterilize during his required sterilization time zone because he can set sterilization time zone. When the time arrives at setting time, Alarm sound rings and exhaust the steam in Sterilizer automatically., <b>TECHNICAL SPECIFICATIONS:</b> Using Temp:121 $^{\circ}\text{C}$ , <b>Using Press:</b> 1.2 to 1.3 Kg/cm $^2$ , <b>Time Controller:</b> Microprocessor Digital P I D Controller, <b>Sterling time:</b> 00.00 to 99HR 59MIN (MIN SEC) Selectable, Temp Accuracy & Stability: $\pm 0.1^{\circ}\text{C}$ , <b>Pressure Gauge:</b> Mechanical type 0 to 3 Kg/cm $^2$ , <b>Thermocouple:</b> R.T.D Type, <b>Dimension Internal:</b> 350x630 ( $\Phi$ xH), <b>Dimension External:</b> 550x680x1060 (WxDxH), <b>Heater Capacity:</b> 3 KW, <b>Capacity:</b> 60 L, <b>Heater Element:</b> Stainless Steel Sheath Pipe Type, <b>Power:</b> 220V , 1 $\Phi$ , 13.6A, <b>Safety Device:</b> Over Temp Protection Device, Over Press Protection Device, Sterilizing Time Arrived Buzzer On Automatic reset function incoming power cut, <b>M/s SAM HEUNG-KOREA.</b>	Rs.724,000/-

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Scientific Technical Corporation (Pvt.) Lahore.	Digital Fuzzy-Controlled, Autoclave with Electronic Door Lock System, Model: MaXterile-60, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, Specification: Capacity: 60 liters. Temp. Range: Ambient: $\pm 5^{\circ}\text{C}$ , to $132^{\circ}\text{C}$ , Temp. Accuracy: $\pm 0.5^{\circ}\text{C}$ at $121^{\circ}\text{C}$ , Pressure: $1.2\text{Kgf/cm}^2$ at $121^{\circ}\text{C}$ , $0.3\text{Kgf/cm}^2$ at $132^{\circ}\text{C}$ , Gauge: $0.3\text{Kgf/cm}^2$ , Sterilization mode: solid or liquid mode. Heater power/consumption: 3KW, Timer and Alarm: 60min, Error status and timer end Display: Digital LCD display 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 Ø 40 mm, Material: Stainless Steel (# 304)-Pressure Vessel, Material External: Powder Coated Steel external, Basket: 2ea of stainless steel wire baskets are Included, Basket Dimension: $\Phi 320 \times h 240$ , Dimension (mm) (w x d x h) Inner (mm): $\Phi 350 \times h 650$ , Power Supply: 220 volt, 50 / 60 Hz	Rs.9,55,800/-

Sr. #.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement. 10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin. 15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	9	12	9	51
2	M/S A.J. Enterprises, Karachi	12	9	0	9	12	9	51
3	M/S World Wide Scientific Karachi	12	9	0	9	12	13	55
4	M/S Scientific Technical Corporation LHR.	12	9	18	9	12	13	73

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points $51 \times 0.60 = 30.6 + 6.11 = 36.71$
2	M/S A.J. Enterprises, Karachi	Technical points $51 \times 0.60 = 30.6 + 39.94 = 70.54$
3	M/S World Wide Scientific Karachi	Technical points $55 \times 0.60 = 33.0 + 40 = 73.0$
4	M/S Scientific Technical Corporation, Lahore	Technical points $73 \times 0.60 = 43.8 + 30.29 = 74.09$ 1st lowest as per cumulative marks
Seven firms participated, four firms quoted technical specification in agreement with tender specification. M/S Scientific Technical Corporation (Pvt.) Lahore succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 955,800/- each as per given specification.		



5.	<b>UV protective Goggles</b> , lightweight design and flexible rubber trim fit comfortably on the face, even over prescription glasses. Air vents locat on each side of the goggles to allow air flow while blocking UV. comply with ANSI-Z87.1 1986 specifications for eye and face protection devices. Fisher, Roth or equivalent
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S Talha Enterprises, Karachi.	Anti-UV (2-1,2), Anti-Scratch, Anti-fog. Clear PC, Orange and Grey, Made by UK, Company BDH MIDDLE EAST L.L.C.	Rs.18,000/-
2	M/S World Wide Scientific Karachi	Cat # 9018.1UV-Safety spectacles astrospec, Scratchproof with permanently non-fogging , and antistatic lens, M/s Carl Roth Germany	Rs.17,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Talha Enterprises, Karachi.	12	9	0	9	12	13	55
2	M/S World Wide Scientific Karachi	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Talha Enterprises, Karachi.	Technical points $55 \times 0.60 = 33.0 + 37.77 = 70.77$
2	M/S World Wide Scientific Karachi	Technical points $65 \times 0.60 = 39.0 + 40 = 79.0$ 1st lowest as per cumulative marks.

Two firms participated and quoted technical specification in agreement with tender specification. M/S World Wide Scientific Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs.17,000/- each as per given specification.

6.	<b>Solar unit for 7KV supply</b> <b>a) Solar photovoltaic Panel/cell</b> (300watt/24volt) for 7000watts inverter, Type: Crystalline silicon, class A solar panels certified by TUV Nord, TUV Germany or any other similar agency registered with ILAC as per IEC 61215 and IEC 61730 standards Efficiency: $\geq 15\%$ , Fill factor: $\geq 72\%$ , Module frame: Non-corrosive and electrolytically Compatible with the mounting structure material. Module minimum rated power: The nominal power of a single PV module shall not be less than 300Wp, Warrantee: Panel output (Wp) capacity to be $\geq 90\%$ of design nominal power after 10 years and $\geq 80\%$ of design nominal power after 25 years, installation at site.
	<b>b) Inverter- Charge-controller, 7KV/7000watts,</b> Maximum power point (MPPT) tracking: shall be incorporated, Inverter efficiency: $\geq 95\%$ , Display type: LCD for data display. LCD / LED for status display, Display parameters to include: Output power (W), cumulative energy (Wh), DC voltage (V), DC current (A), AC voltage (V), AC frequency (Hz), AC current (A), cumulative hours of operation (h). Inverters certified as per EN50530, IEC 61683, 62109 - 1 and 2 and charge controls certified as per IEC 62093 standards. Warranty: Warranty of the inverter shall be two (2) years minimum for inverter and charge controller tenderer shall provide original/ copy of manufactures document in proof of this requirement for verification.
	<b>c) Wiring/cables,</b> permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.
	<b>d) Batteries for backup of 3 hours</b> Solar Deep cycle battery, solar Gel 1200V 200AH. Battery cycles not less than 1000 cycles at 50% depth of discharge, certification as per IEC 60896 and IEC 61427 standards with stand for batteries.

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S Ocean Green Chemical Service, Karachi.	<b>Solar Unit for 7KVA supply</b> , 1) Solar Panel Cat No. JC300M-24/Ab, Maximum Power 300W, Module efficiency 15.5%, Warranty 25Years, Supplied complete with stand and installation	Rs.3,766,650/-
		2) Solar Inverter Cat No XW=8548E or InfiniSolar 10KW, Warranty 2 years	
		3) Electric Wiring Complete	
		4) Gel Battery Cat No DG 12-200(12 V 200Ah), Supplied with battery bank stand	
		The system comes complete with solar panel stand and battery bank stand. Country of origin of Solar Panel and Battery is China	
2	M/S Talha Enterprises, Karachi.	a). Solar Photovoltaic Panel 300Watt / 24 Volt (7000 Watt), 300Watt Solar Panel Structure, Solar Panel Warranty 25 Years, Including solar frame and complete installation, Parts in USA Manufacture in China Company Name (YINGLI SOLAR), Made in China	Rs.1,944,000/-
			Rs.202,500/-
		b). Inverter 7000 Watt 48 Volt DC, Warranty : Warranty of the inverter shall be five (3) years, Company Name Prostar), Made by Taiwan	Rs.421,875/-
		c). Wiring & Cabling Permissible temperature range, is 70-900C, Certified against IEC 60947 II & III, Change over between AC & DC interfaces.	Rs.84,375/-
		d). Solar Deep Cycle Battery Solar Gel 12Volt 200AH, Battery Cycle not less than 1200 Cycle at 50% DOD. Imported	Rs.432,000/- (4 batteries set)
		<b>Total</b>	<b>Rs.3,084,750/-</b>



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
3.	M/S World Wide Scientific Karachi	Solar Unit for 7KV Supply	Rs.4,595,000/-
		a) Solar photovoltaic Panel/ Cell , (300watt/24volt) for 7000watts, Inverter Type: Crystalline Silicon, Class A Solar panels certified with standards Efficiency: >=15%, Fill Factor: >=72%, Modules conform to: IEC61215, IEC61730, CE, ROHS, Warrantee: Panel output (Wp) capacity to be >=90% of design nominal power after 10 years and >=80% of 25years, Installation at site	
		b) Inverter- Chang Controller (7KV/7000watts), MPPT shall be incorporated, Inverter efficiency: >=95%, LCD display, Warranty: 2years.	
		c) Wiring /Cables: permissible temperature range is 70-900C, certified cable, installation at site	
		d) Batteries for backup of 3hours: Solar deep cycle battery, Solar gell Voltage Per Unit: 12 Capacity: 177 Ah@ 10hr-rate to 1.80V per cell @ 25° C, Max. Discharge Current: 2000A (5sec), Certified with stands for batteries.	
4	M/S Burraq Business Corporation, Hyderabad.	Set = 7KW 20 panels complete 6 batteries installation fixation.	Rs.4,195,000/-
		Leading cell and solar module technology guarantees the world class tability and reliability backed by 25 years linear performance warranty. All series of regular solar panels are manufactured to the strictest engeering guidelines, ensuring ech solar panet meets the internation standards of qualify and sefety. Standard solar panels are powered by 125x125mm (5inch) or 156x156mm (6 inch) high efficiency monocrytalline or poly-crystalline solar cells. The solar panels are suitable for all types of solar applications from large scale solar farms to residential and commercial roof-top systems. 25 years linear performance warranty. 10 years produce of warranty (material and work kmanship) 25 years linear solar panel power out put warranty. Certified by TUV Nord Germany or registered with 11AC as per ICE61215 and IEC 61730 standard. Frame non corrosive and electrolytically campatible with mounting material, Nominal power single PV not less then 300wp, Frame stand durable, non corrsive material made installation and fixture with concrete cement on site.	
		With inverter change over board. Maximum power point MPPT 95%, Display LCD/LED status. i. Output power(w), ii. cumulative energy 'with' iii. Voltage DC & AC. iv. current DC. v. Frequency AC, HZ. vi. current AC 'A'. vii. Cumulative hours of operation 'n'. Certified as per IEC 62093 standard warranty. Warranty 2 years. Original complete manufactures document in proof be provided.	
		Wire cables: setting wire from outer unit to inner unit. Drill retting the wire inside room. certified IEC 60947 II & III system, with energy meter (KWH) indicate total energy supplied by the system. Permissible temperature range 70-900°C .	
		Batteries: Solar deep cycle, gel 1200V 200AH, Cycle notless htan 1000, cycles at 50% depth discharge. Certified as per IEC 60896 and IEC 61427 standard, with stand for battery.	
		A. Stabimatic UK or both 10KW & 5KW. B. China Imported. C. Germany imported. D= Canada.	
		Complete kit common general complete work of all parts: Complete professional installation by trained team. After sale service, Training a person responsible of your office look after and operate the system on ward. On site installation of panel with durable non cosine stand and fixture with concrete cement. All the material branded. cleverly designed packing makes it easy to handle component at construction site.	

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit		
5	M/S Habib & Sons, Hyderabad.	<b>a).</b> 300 watts/24 volt Solar panel photovoltaic panel Type: Crystalline silicon, roof top solar mounting fixed type 7mm+10mm wire with installation and testing as per tender specification. Manufactured in china, life 25 years (warranty 10 years).	Rs.58,000/-	24 plates	1,392,000
		<b>b). 10kva/8000watts</b> Solar Hybrid inverter with 50A MPPT charge controller with installation and testing as per tender specification, Energy vision / inverex/ stabimatic, warranty 01 years.	Rs.425,000/-	1 No.	425,000
		<b>c) Wiring/cabels</b> , permissible temperature range is 70-900C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.	Rs.30,000/-		30,000
		<b>d).</b> 200AH AGM Dry Battery with installation and testing, Powesafe / Narada/lido, weight above 60KG.	Rs.55,000/-	4 Nos.	220,000
		<b>Total:</b>			<b>2,067,000</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement. 10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin. 15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S Ocean Green Chemical Service, Kyc.	18	9	0	13	18	0	58
2	M/S Talha Enterprises, Karachi.	18	9	0	13	18	13	71
3	M/S World Wide Scientific Karachi	18	9	0	13	18	9	67
4	M/S Burraq Business Corporation, Hyd	18	9	0	13	18	9	67
5	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	9	61

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S Ocean Green Chemical Service, Karachi.	Technical points $58 \times 0.60 = 34.8 + 21.95 = 56.75$
2	M/S Talha Enterprises, Karachi.	Technical points $71 \times 0.60 = 42.6 + 26.80 = 69.40$
3	M/S World Wide Scientific Karachi	Technical points $67 \times 0.60 = 40.2 + 17.99 = 58.19$
4	M/S Burraq Business Corporation, Hyderabad.	Technical points $67 \times 0.60 = 40.2 + 19.71 = 59.91$
5	M/S Habib & Sons, Hyderabad.	Technical points $61 \times 0.60 = 36.6 + 40 = 76.6$ 1st lowest as per cumulative marks.
Five firms participated and quoted technical specification in agreement with tender specification. M/S Habib & Sons, Hyderabad succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs.2,067,000/- each set as per given specification.		



7.	<b>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters</b> with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported. <b>with</b>
	<b>b). Microplate washer with accessories;</b> strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above
	<b>c) Computer with i5, Intel mother board and processor</b>
	<b>d) Dot matrix printer,</b> 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.

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Absorbance Microplate ELISA Reader: Model: ELX800 CE Certified with 04 Built in Filters: 405,450,490,630 nm, 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: 30secs single wavelength, Power: 100-240 VAC 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, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty: 12 Months	Rs.1,406,160/-
		B). a. Microplate ELISA Washer, Model: ELX50/8 CE Certified, Microplate Types: Flat-bottom 96-well plates, low profile and standard height, Manifold Types: (Washing or Pipeting) 8 Tubes (1x8) Manifold, 12 Tubes (1x12) Manifold Processing Speed: < 130 seconds for 3 cycles, 300µL/well, 96-well, (16-channel), Operating: 15C to 40C, Biomagnetic Separation: No, Wash Cycles: 1 to 10, 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: 75 programs, Program linking, Overflow wash/overflow protection, Multiple maintenance programs, Soak Time: 1 to 600 seconds, Shaking: YES- User-programmable speeds and timing, Sterilization: Chemical, Dimensions: Depth: 16" (40.6 cm) Width: 14" (35.6 cm) Height: 6.5" (16.5 cm), Weight: 20 lbs (8.9 kg), Power: Compatible with 100 to 240 V~ 10% at 50-60 Hz 4070513S 12-Channel Manifold, Manufacturer: Biotek Instruments INC USA, Supplier: Biotechnology Medical Services Europe, Country Origin: USA, Warranty : 12 Months	Rs.1,655,640/-
		c). Computer Core i5, System: Dell 3020, CPU Speed: Core i5 3.0, Ram:8 GB DDR, AGP Card / VGA Card: Yes, Hard Dish; 500 GB, DVD / DVD RW / CD, Combo, Lan Card: Yes, Mouse: Yes, Key Board: Yes, Casing Tower: LCD Dell 18.5	Rs.155,790/-
		d). Dot Matrix Printer, Model Epson LQ 350	Rs.56,700/-
		<b>Total</b>	<b>Rs.3,274,290/-</b>

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
2.	M/S Scientific Technical Corporation (Pvt.) Lahore.	ELISA Reader, Washer, Computer and Printer	
		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, Software: Gen5 Reader Control Software, Onboard software: 55 user-programmable protocols, Absorbance: Light source: Tungsten halogen, Wavelength selection: Filters, Wavelength range: 400 to 750 nm, Bandwidth:10 nm, Dynamic range: 0 to 3.0 OD, Resolution: 0.001 OD, Filter wheel capacity: 5 positions, OD accuracy: <1% at 2.0 OD, OD linearity:<1% at 2.0 OD, <3% at 3.0 OD, OD repeatability: <0.5% at 2.0 OD, Reading speed: 96 wells: 30 seconds, 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: For In Vitro Diagnostic use. CE and TUV marked, RoHS Compliant.	Rs.708,000/-
		B. Auto plate Washer, Model: Elx50, BIOTEK INSTRUMENTS INC., USA. Country of Origin: USA. Warranty: 3 Years, 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: <u>Solid bottom plates</u> , 3 asp./disp. cycles: >300 µL/well, 96 wells, 8-tube manifold, final aspirate: < 130 seconds, Volume Range: 25 - 3,000 µL/well (configuration dependent), Selectable in 1µL 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: 2L, 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: CE and TUV marked. ROHS compliant. In Vitro Diagnostic use models are available.	Rs.708,000/-
		Data Analysis Software , Model: Gen5™, BIOTEK INSTRUMENTS, INC., USA.	Rs.153,400/-
		B) Dot Matrix Printer, Epson, Warranty: One Year	Rs.47,000/-
		C). Computer System , Core i5 with Intel Mother Board and Processor, Standard Specification , Local Arrangement	Rs.100,500/-
		<b>Total:</b>	<b>Rs.1,716,900/-</b>
3.	M/S S.K. Trading Corporation Karachi.	<b>ELISA Reader, Washer, computer and printer. ELISA SYSTEM, a) Microplate Reader, Model: AMR-100, Allsheng / Tomos Life Sciences , Singapore</b> , Feature: • Easy of use with 7 inch touch screen together with 3 external keys. • A broad wavelength range of 340-750nm. • Able to use individually or connect with PC and export results. • Absorbance range: 0.0~4.000Abs. <b>Software</b> AMR-100 keeps with high visual and logical user interface of software, it can be offered a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, qualitative classification and kinetic calculations, as well as the versatile reporting tool and make data reduction.	Rs.1,150,000/-
		<b>b) Microplate Washer, Model: APW-100, Allsheng / Tomos Life Sciences, Singapore</b> , Features: • Low residual liquid, each well ≤0.5µl, • Compatible for microplates: flat, U, V, C bottom, • 4.3 inch color LCD display, easy to operate. • Washing head position can accurate to 0.1mm. • Wash parameters can be set to make sure the best washing effect.	
		<b>c) Computer with i5, Intel mother board and processor</b>	
		<b>d) Dot matrix printer</b> , 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,	



Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
4.	M/S Chemical House, Korangi Karachi.	<p><b>A).</b> Part No. 94196, Elisa Plate Reader, PR 4100 Absorbance Microplate Reader, Includes Notebook mini-PC, 405, 550, 492, 620 nm filters, USB key with Bio-Rad pre-programmed methods (APF) with manuals and software, 1 unit , The PR 4100 microplate reader is the next generation 8-channel absorbance microplate reader by Bio-Rad. It provides accurate, reproducible and fast measurements out of a compact and innovative design. Controlled via a Notebook PC, the system is validated with the complete menu of Bio-Rad EIA tests. Improved Reliability :- Latest LED Technology for long life and maintenance free operation :- 8-channel absorbance microplate reader for fast measurements, :- Comprehensive QC function with multicheck plate, Innovative Design: :- Compact foot-print, :- Standalone reader operated through a Notebook PC, :- Windows® 7-based software, Comprehensive Data Analysis Software: Validated protocols according to Bio-Rad quality assurance process, Power Data Analysis with full qualitative and quantitative EIA analysis, Full traceability, :- Complies with 98/79 EC IVD-D &amp; FDA 21 CFR part 11, Specifications: PR4100 Microplate Reader - General, Dimensions Width: 34.7 cm , Depth: 18.9 cm, Height: 13.4 cm, Weight 2.6 kg (power supply included), Ambient temperature Operation: 15 °C to 35 °C (59 °F to 95 °F) , Storage: -30 °C to 60 °C (-22 °F to 140 °F) , Measurement Specifications: Measurement time Single wavelength: &lt; 15 seconds, Dual wavelength: &lt; 20 seconds, Installed filters 405, 450, 492, 550 and 620 nm, Resolution 0.0001 OD, Accuracy: 450, 492 nm 0.000 -2.000 OD: (1.0 % + 0.010 OD)* 2.000 -3.000 OD: (1.5 % + 0.010 OD)* , Precision: 450, 492 nm 0.000 -2.000 OD: (0.5 % + 0.005 OD)*, 2.000 -3.000 OD: (1.0 % + 0.005 OD)* Linearity: 450, 492 nm 0.000 -2.000 OD: 1 % 2.000 -3.000 OD: 1.5 %, Filter wavelength, accuracy: Central wavelength ± 2 nm, Filter bandwidth At 50 % transmission: 10 ± 2 nm, Light source LED, Computer interface USB 1.1 / 2.0, Bio-Rad Laboratories, USA</p>	Rs.701,883/-

Bid continued

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
		<b>B).</b> Part No. 85499K, Elisa Washer, PW40 8-Channel Manifold Microplate Washer, 8-channel microplate washer/aspirator with built-in vacuum and dispensing pumps; for use with 96-well flat, U-bottom or V-bottom plates (1 unit) , * Up to 75 programmable washing sequences for customized protocols. * Easily removable 8- or 12-channel manifolds. * Easily Accessible manifold interior for cleaning and maintenance. * Removable and autoclavable plate carrier * Standard aerosol protection cover * Integrated vacuum and dispensing pumps to ensure accurate and quiet washing and to eliminate the need for external pumps. Dimensions (W x L x H): 368 x 530 x 243 mm Weight: 10.1 kg   12.4 kg, Input voltage and frequency: 110-120 V or 220-240 V / 50-60Hz Output: 100 VA max. Operating conditions: 15-30°C/15-85%RH, Performance: Precision : +5% RSD (0.9% NaCl W/v), Wash volume: 50-3,000 µl per well, Residual well volume: < 2 µl per well, Storage capacity: Up to 75 kits, Soak time, In plate mode: 0-60 min per 1 sec interval, In strip mode: 0-16 min per 1 sec interval , Bio-Rad Laboratories.	Rs.349,830/-
		<b>C).</b> Computer with i5, Intel Mother board and processor	Rs.99,391.50
		<b>D).</b> Dot Matrix Printer, LQ-350. Epson	Rs.23,985/-
		<b>Total:</b>	<b>Rs.1,175,089.50</b>

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/ Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	12	13	12	9	73
2	M/S Scientific Technical Corporation (Pvt.) Lahore.	18	9	18	13	12	15	85
3	M/S S.K. Trading Corporation Karachi.	12	9	18	9	12	15	75
4	M/S Chemical House, Karachi	12	9	18	9	12	9	69

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points $73 \times 0.60 = 43.8 + 14.05 = 43.8$
2.	M/S Scientific Technical Corporation, Lahore.	Technical points $85 \times 0.60 = 51.0 + 26.79 = 77.79$
3.	M/S S.K. Trading Corporation Karachi.	Technical points $75 \times 0.60 = 45.0 + 40 = 85.0$ 1st lowest as per cumulative marks.
4.	M/S Chemical House, Korangi Karachi.	Technical points $69 \times 0.60 = 41.4 + 39.15 = 80.55$
Five firms participated, four firms quoted technical specification in agreement with tender specification. M/S S.K. Trading Corporation Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 1,150,000/- each set as per given specification.		



8.	<b>Low voltage Split Air Conditioner</b> 1.5ton, Max. Ambient temperature 48°C $\pm$ 5%, Remote hand set, LED Display length of tubing: 15cm or as per installation requirement Auto restart at previous function settings electricity in put 220V/50Hz (single phase) Noise level indoor 39/31dBA (high/Low), Rotary compressor, outer unit rust resistant. Haier, Gree, Dawlance, Orient, Mitsubishi or exact equivalent.
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S A.J. Enterprises, Karachi	Split Air Conditioner 1.5 Ton Haier Low Voltage Series, Capacity: 1.5 Ton, 20% Power Saving with High Energy Efficient Compressor, Powerful Cooling, Works up to 52°C, Auto Restart after Power Restored, Child Lock, Concealed LED Display, Easy Clean (Indoor), Intelligent Air Flow, 24 Hours Timer, Evaporator Self-Cleaning, Auto Mode, Installation Kit 10 Feet with Installation, Warranty: 01 Year	Rs.88,000/-
2	M/S Burraq Business Corporation, Hyderabad.	Gree Model GS-18CZ8S, cooling capacity 1.5 Ton (18000BTU), Compressor W5300. Warranty 3 years compressor and 1 year parts.	Rs.138,500
3	M/S Habib & Sons, Hyd	Low voltage Split Air Conditioner (1.5ton), As per tender specification Orient /Haier	Rs.87,200/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	13	65
2	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65
3	M/S Habib & Sons, Hyderabad.	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points $65 \times 0.60 = 39.0 + 39.64 = 78.64$
2	M/S Burraq Business Corporation, Hyderabad.	Technical points $65 \times 0.60 = 39.0 + 27.46 = 66.46$
3	M/S Habib & Sons, Hyderabad.	Technical points $65 \times 0.60 = 39.0 + 40 = 79.0$ 1st lowest as per cumulative marks.
Three firms participated and quoted technical specification in agreement with tender specification. M/S Habib & Sons, Hyderabad succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs.87,200/- each as per given specification.		

Purchase of Furniture/Fixture	
1	<b>Drawers in lab. Sections under the slab 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.</b>

Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Drawers in Lab. Sections under the slab 4'.9" x 2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle. Imported Material (Per Sq Feet)	Rs.2,200/- per sq.ft. (Rs.24,794)
2.	M/S Burraq Business Corporation, Hyderabad	Drawer Lab. section: with glass paper, separate two sliding window section with 5mm glass door aluminum frame. with 12mm glass draws. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.	Rs.41,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyd	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 40 = 76.6 1st lowest as per cumulative marks
2.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 24.19 = 63.19
Three firms participated, two firms quoted technical specification in agreement with tender specification. M/S Talha Enterprises, Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 24,794/- each as per given specification.		



2	<b>Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) , Aluminum frame, space between drawer 22" high quality , sliding glass lock and handle. Imported Material (Per Sq Feet)	Rs.2,200/- per sq.ft. (Rs.344,960)
2.	M/S Burraq Business Corporation, Hyderabad	Fixture Administration Block: separate two panel partition height 7' each on 3'5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD. Common Features: Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.	Rs.344,800/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points 61 X 0.60 = 36.6 + 39.98 = 76.58
2.	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 40 = 79.0 1st lowest as per cumulative marks.
Three firms participated, two firms quoted technical specification in agreement with tender specification. M/S Burraq Business Corporation, Hyderabad succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 344,800/- each as per given specification.		

3.	<b>Fixture in Administrative Block, 11'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1.	M/S Talha Enterprises, Karachi.	Fixture in Administrative Block, 11'x7'x1.6' (LxHxD), Aluminum frame, space between drawer 22" high, quality sliding glass lock and handle, Imported Material (Per Sq Feet)	Rs.2,200/- per Sq.ft. (Rs.271,040)
2.	M/S Burraq Business Corporation, Hyderabad	<p>Fixture Administration Block: separate two panel partition height 7' each on 3'5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD.</p> <p><b>Common Features:</b> Full guage aluminum high qualify, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best qualify heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.</p>	Rs.314,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty 20%	Previous experience 15%	Total marks
1.	M/S Talha Enterprises, Karachi.	18	9	0	13	12	9	61
2.	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1.	M/S Talha Enterprises, Karachi.	Technical points $61 \times 0.60 = 36.6 + 40 = 76.6$ 1st lowest as per cumulative marks
2.	M/S Burraq Business Corporation, Hyderabad	Technical points $65 \times 0.60 = 39.0 + 34.53 = 73.53$

Three firms participated, two firms quoted technical specification in agreement with tender specification. M/S Talha Enterprises, Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs. 271,040/- each as per given specification.



<b>4.</b>	<b>Visitors benches, stainless steel heavy duty three seaters for reception counter with back &amp; arm rests.</b>
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Sr. #	Name of firm	Technical Specification of the firm	Rate per unit
1	M/S A.J. Enterprises, Karachi	Visitor Benches, Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.	Rs.19,000/-
2	M/S Burraq Business Corporation, Hyderabad	Stainless steel 3seator and total complete made in China imported. Heavy duty stainless steel material, 100% imported China. No local any part used even a keel, Long life, with arm S,S, Metallic material. Full frame steel chrome, Four finger base with non slippery maxi Ruben, Frame with back support fixed. No tilting. Leather seating cushion, Easy relax & soft reating with back support foam leather made. Full chrome hand, seating made with heavy S.S. material, seating with air little hole in seating.	Rs.31,000/-

Sr. No.	Name of firm	CRITERIA.						
		Technical specification. 20	Packing size / doses/tests as per requirement.10%	distribution certificate/ Authorization/Manufacturing certificate. 20%	Country of origin.15%	Warranty. 20%	Previous experience 15%	Total marks
1	M/S A.J. Enterprises, Karachi	18	9	0	13	12	9	61
2	M/S Burraq Business Corporation, Hyderabad	18	9	0	13	12	13	65

Sr. #.	Name of firm	Comments of the Procurement Committee
1	M/S A.J. Enterprises, Karachi	Technical points 61 X 0.60 = 36.6 + 40 + = 76.6 1st lowest as per cumulative marks.
2	M/S Burraq Business Corporation, Hyderabad	Technical points 65 X 0.60 = 39.0 + 24.52 = 63.52
Two firms participated and quoted technical specification in agreement with tender specification. M/S A.J. Enterprises, Karachi succeeded as 1st lowest on the basis of cumulative marks. Hence Procurement Committee may approve purchase from the 1st lowest @ rate of Rs.19,000/- each as per given specification.		



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

**MINUTES OF THE 1<sup>ST</sup> MEETING OF THE PROCUREMENT COMMITTEE HELD ON 23-12-2015 @ 12.30HOURS IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR THE OF PROCUREMENT OF "HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR THE DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2015-2016.**

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### **List of participants attached**

The tender was advertised in national newspapers through information department & Government website. The tender was published in "**The News, Daily Ibrat, Daily Express dated 26-112015, Daily Kawish dated 27-11-2015, SPPRA Sr. No.25873 & Sindh Government website**". Of the 11 firms purchased tender documents and submitted sealed tenders (Technical and Financial proposal/envelops) by closing date 23-12-2015 @12.00Noon at Directorate General, Livestock (Extension/Research) Sindh, Hyderabad.

The tenders were opened on 23-12-2015 at 12.30hours before eleven (11) interested bidders/ authorized representatives (attendance sheet enclosed) in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad by the Procurement Committee.

The following decisions were taken in the meeting:

- The technical tenders be scrutinized as per marks based on bid evaluation criteria.
- Call deposits of all the participating firms be verified from relevant banks.
- Comparative statement be prepared showing the technical specification as per tender items and same may be put before the committee during its 2<sup>nd</sup> meeting for finalization of technical tenders for the opening of financial envelops.

- 2<sup>nd</sup> meeting will be held on 28-01-2016 at 12.00noon in the Directorate General, Livestock (Extension/Research) Sindh Hyderabad, on the same date financial tenders (envelops) will be opened and bidders will be informed by Director, Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam accordingly.

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

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

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





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



# **MINUTES OF PROCUREMENT COMMITTEE MEETING**



**HELD ON**

**17-02-2016 @ 11.30AM**

**FOR PROCUREMENT  
OF**

**"HARDWARE, LABORATORY MACHINERY & EQUIPMENT  
AND FURNITURE/FIXTURE"  
DURING THE FINANCIAL YEAR 2015-2016.**

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

	<b>MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 17-02-016 @ 11.30AM IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR PROCUREMENT OF "HARDWARE, MACHINERY &amp; EQUIPMENT AND FURNITURE/FIXTURE"FOR THE DIRECTORATE OF VETERINARY RESEARCH &amp; DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2015-2016.</b>	
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## 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.

Director, Veterinary Research & Diagnosis, CVDL Sindh Tando Jam briefed the forum that tender were called through news papers for the procurement of **"Hardware, Machinery & Equipment and Furniture/Fixture"** for the Directorate of Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam during the current financial year 2015-16.

Tender advertisement appeared in **"The News, Daily Ibrat, Daily Express dated 26-11-2015, Daily Kawish dated 27-11-2015, SPPRA Sr. No.25873 & Sindh Government website"**.

Of the 11 firms purchased tender documents and submitted sealed tenders (Technical and Financial proposal/envelops) for the tender by closing date 23-12-2015 @12.30Noon at Directorate General, Livestock (Extension/Research) Sindh, Hyderabad. Tenders (Technical envelops) were opened on 23-12-2015 @ 12.3noon before eleven (11) interested bidders/ authorized representatives in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad by the Procurement Committee. The Financial proposal (sealed tenders) were opened on 28-01-2016 @ 12.30hours before nine (09) bidders/authorized representatives in the Directorate General, Livestock (Extension/Research) Sindh, Hyderabad.

Procurement Committee evaluated/scrutinized cumulative total marks based on bid evaluation criteria and finalized the tender. In the light of justification provided by the Director, Veterinary Research & Diagnosis, CVDL Sindh Tando Jam. The Procurement Committee decided that:

- Procurement Committee approved the lowest rates and procurement of the items from the participating bidder/companies having specification in agreement with tender specification.
- Procurement Committee allowed the purchase of all the approved items. The quantity of items be adjusted as per availability of funds under the scheme ADP 929.
- The suppliers will be responsible for installation and activation of equipments on site.
- The warranty of the item will start from the date of installation for the period of one year.
- If any tax related to this procurement 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><b>Computers and Printers with all accessories as below are higher specification.</b></p> <p><b>Desktop computer</b> quad core i5 processor, complete with Microsoft Windows 7 professional or above Genuine system and life time antivirus, <b>CPU and Memory:</b> Intel Core i5 quad core, 15-4460, Processor speed 3.2GHZ, 8GB RAM, <b>Hard drive:</b> 500GB SATA-III hard drive, <b>DVD optical drives:</b> read and write Dual layer, <b>Graphics:</b>, Shared Graphics, <b>Interfaces and connectivity:</b> 5xUSB 2.0 ports, 3xUSB 3.0 ports, Ethernet port, Wireless/Wi-Fi enabled, wired keyboard and mouse. <b>Operating system and software,</b> Monitor LED 17". <b>with _H.P. LASER JET 1020 or higher specification.</b> 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 A.J. Enterprises, Karachi for the item as under:

Technical Specification of the firm	Rate per unit
<p>Computer with all accessories DELL OPTIPLEX (BROCHURE ATTACHED), Chipset: Intel H81 , Processor: Intel Core i5-4590 (Quad Core HT 3.3GHz/ 6MB Cache), Memory: 8GB DDR 3, Hard Drive: 500GB SATA HDD, 7200RPM, Optical Drive: 16x DVD+/-RW Drive, Graphics: Integrated Intel® HD Graphics 4600, Communication: Integrated 1000Gigabit Ethernet LAN, Wi-Fi Enabled, Ports &amp; Connectors: 4 External USB 3.0 ports (2 front, 2 rear) and 6 External USB 2.0 ports (2 front, 4 rear, except USFF – 4 rear only) and 2 Internal, USB 2.0 (MT only); 1 RJ-45; 1 Serial; 1 VGA; 2 Display Port; 2 PS/2 (MT/SFF only); 2 Line-in (stereo/microphone), 2 Line-out, (headphone/speaker), Audio: High Definition audio system including microphone and headphone ports, line-out/line-in ports and a standard internal speaker, Accessories: Dell USB Keyboard, Dell Optical Mouse, Display: Dell LED Monitor 18.5" E1916H, Operating System: Windows 7 Genuine CD (Licensed), <b>PRINTER:</b> HP Laser P1102, Warranty: 03 Years Computer and 01 Year Printer</p>	Rs.164,100/-

## Purchase of Machinery & Equipment.

1.	<p><b>Biological safety cabinet class-II Type A-2 4ft (1.2m).</b> External dimension (LxWxH: 31.5" - 33.5" x 51.2" - 55.9" x 60.6" - 61.8" Shash opening: 8"-10.8" Electrical Requirement: 220-230V 50/60Hz, Filter Type &amp; efficiency: HEPA/ULPA 99.999MPPS, Certification/compliance: NSF/ANSI 49, Chamber material: stainless steel. Fluorescent lamps: Factory installed &gt;1400LUX, Warranty: 3 years service &amp; parts., <b>ESCO, NuAire, Thermo or exact equivalent</b></p>
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Rate per unit
<p>Labculture Class II Type A2 Biological Safety Cabinet, 4ft/1.2m, Model: LA2-4A1. Accessories Included: UV Lamp for 4ft cabinet, Direct Mounted Electrical Outlet - Plug Code H. American Style Service Fixture with 40mm Thread Length - Universal, Support Stand with Caster Wheels (Height 28") for 4ft cabinets, Make:ESCO, Singapore. Each</p>	Rs.1,299,000/-

2.	<b>PCR work station</b> , Provide ISO class 5 conditions for PCR work, Dimension Exterior: 35-40" x 24" x 37" (LxWxH) Lighting: Fluorescent & UV, Filter: HEPA/ULP, 99.999% efficiency Sash opening: 9-10" (Removable safety panel to close sash opening), Construction: White epoxy coated aluminum & steel, UV resistant thick safety glass sash and slides. utility ports, polished stainless steel work surface UV resistant polycarbonate / steel body, Warranty: one year ESCO, Thermo, Lab Conco, Sigma/Aldrich, USA Scientific or exact equivalent
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Rate per unit
UV cabinet/PCR workstation economy, Glass front, dual UV protection lamp and UV recirculator, integral power socket, Model: UVT-B-AR, Make: Grant Instruments,Uk	Rs.715,000/-

3.	<b>Tube Rotator/Shaker.</b> Lab mixer at variable angle and variable speed Oscillation: up to 300 <sup>0</sup> , Rotation: 360 <sup>0</sup> , variable speed from 1-100 rpm, continuous and times operation, Voltage: 220-240V/ 12V with adaptor, Tube holder plates to fit a variety of tubes (micro tubes/ blood anticoagulant tubes) Capacity: Tube holder platform 1 or 2, Thermo, Labnet, Fisher Scientific or exact equivalent
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Procurement Committee approved the technical specification and rate of M/S ScienTec Karachi for the item as under:

Technical Specification of the firm	Rate per unit
Vertical Multi Function Rotator, Model: PTR-35, Make: Grant Instruments, UK, Key Features: 360° vertical rotation, reciprocation and vibration, functions all in one compact product, Choice of two models with different tube capacities, Vertical rotation speed: 1 to 100 rpm, Reciprocal rotation: 1 to 90° turning angle, vibration: programmable in a burst of 1 to 5 seconds, Fully programmable sequence of functions, including pause, Optional extra platforms to accommodate microplates and tubes up to 50ml see p 9.10.	Rs.189,550/-

4.	<b>Autoclave 50 liters capacity</b> , 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.
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Procurement Committee approved the technical specification and rate of M/S Scientific Technical Corporation (Pvt.) Lahore for the item as under:

Technical Specification of the firm	Rate per unit
Digital Fuzzy-Controlled, Autoclave with Electronic Door Lock System, Model: MaXterile-60, DAIHAN SCIENTIFIC, NORTH AMERICA INC., USA. Country of Origin: USA/Korea. Warranty: 1 Year, Specification: Capacity: 60 liters. Temp. Range: Ambient: $\pm 5^{\circ}\text{C}$ , to 132 <sup>0</sup> C, Temp. Accuracy: $\pm 0.5^{\circ}\text{C}$ at 121 <sup>0</sup> C, Pressure: 1.2Kgf/cm <sup>2</sup> at 121 <sup>0</sup> C 1.2Kgf/cm <sup>2</sup> at 132 <sup>0</sup> C, Gauge: 0.3kgf/cm <sup>2</sup> , Sterilization mode: solid or liquid mode. Heater power/consumption:3KW, Timer and Alarm: 60min, Error status and timer end Display: Digital LCD display 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 Ø 40 mm, Material: Stainless Steel (#304)-Pressure Vessel, Material External: Powder Coated Steel external, Basket: 2ea of stainless steel wire baskets are Included, Basket Dimension: Ø320xh240, Dimension (mm) (w x d x h) Inner (mm): Ø350xh650, Power Supply: 220 volt, 50 / 60 Hz	Rs.9,55,800/-

5.	<b>UV protective Goggles</b> , lightweight design and flexible rubber trim fit comfortably on the face, even over prescription glasses. Air vents located on each side of the goggles to allow air flow while blocking UV. comply with ANSI-Z87.1 1986 specifications for eye and face protection devices. Fisher, Roth or equivalent
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Procurement Committee approved the technical specification and rate of M/S World Wide Scientific Karachi for the item as under:

Technical Specification of the firm	Rate per unit
Cat # 9018.1UV-Safety spectacles astrospec, Scratchproof with permanently non-fogging, and antistatic lens, M/s Carl Roth Germany	Rs.17,000/-

6.	<p><b>Solar unit for 7KV supply</b></p> <p><b>a) Solar photovoltaic Panel/cell</b> (300watt/24volt) for 7000watts inverter, Type: Crystalline silicon, class A solar panels certified by TUV Nord, TUV Germany or any other similar agency registered with ILAC as per ICE 61215 and IEC 61730 standards Efficiency: <math>\geq 15\%</math>, Fill factor: <math>\geq 72\%</math>, Module frame: Non-corrosive and electrolytically Compatible with the mounting structure material. Module minimum rated power: The nominal power of a single PV module shall not be less than 300Wp, Warranty: Panel output (Wp) capacity to be <math>\geq 90\%</math> of design nominal power after 10 years and <math>\geq 80\%</math> of design nominal power after 25 years, installation at site.</p> <p><b>b) Inverter- Charge-controller, 7KV/7000watts</b>, Maximum power point (MPPT) tracking: shall be incorporated, Inverter efficiency: <math>\geq 95\%</math>, Display type: LCD for data display. LCD / LED for status display, Display parameters to include: Output power (W), cumulative energy (Wh), DC voltage (V), DC current (A), AC voltage (V), AC frequency (Hz), AC current (A), cumulative hours of operation (h). Inverters certified as per EN50530, ICE 61683, 62109 - 1 and 2 and charge controls certified as per IEC 62093 standards. Warranty: Warranty of the inverter shall be two (2) years minimum for inverter and charge controller tenderer shall provide original/ copy of manufacturer's document in proof of this requirement for verification.</p> <p><b>c) Wiring/cables</b>, permissible temperature range is 70-90°C, certified against IEC 60947, II &amp; III. System protection device change over between AC &amp; DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.</p> <p><b>d) Batteries for backup of 3 hours</b> Solar Deep cycle battery, solar Gel 1200V 200AH. Battery cycles not less than 1000 cycles at 50% depth of discharge, certification as per IEC 60896 and IEC 61427 standards with stand for batteries.</p>
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Rate per unit		
<b>a).</b> 300 watts/24 volt Solar panel photovoltaic panel Type: Crystalline silicon, roof top solar mounting fixed type 7mm+10mm wire with installation and testing as per tender specification. Manufactured in China, life 25 years (warranty 10 years).	Rs.58,000/-	24 plates	1,392,000
<b>b).</b> 10kva/8000watts Solar Hybrid inverter with 50A MPPT charge controller with installation and testing as per tender specification, Energy vision / inverter / stabimatic, warranty 01 years.	Rs.425,000/-	1 No.	425,000
<b>c) Wiring/cables</b> , permissible temperature range is 70-90°C, certified against IEC 60947, II & III. System protection device change over between AC & DC interfaces. Energy Meter (kWh meter to measure the total energy supplied by the system; installation at site.	Rs.30,000/-		30,000
<b>d).</b> 200AH AGM Dry Battery with installation and testing, Power safe / Narada/lido, weight above 60KG.	Rs.55,000/-	4 Nos.	220,000
<b>Total:</b>			<b>2,067,000</b>



7.	<b>ELISA Reader, Washer, computer and printer. a). ELISA reader wave length 400-700 nm, 3-4 filters</b> with PC, Printer soft ware and operation manual, reading 96 well plates on board, soft ware to run ELISA applications. Detection method absorbance. Filters: 405,450,492 and 620nm, 8 position filter wheels Resolution: 0.001Abs. Measurement: <6s, 96 well plate. User interface: Internal software PC controls communication: USB for computer connection/ external printer. Main inputs: 220V-50/60Hz, Multiscan, BioTech, Bio-Rad, USA/U.K./Germany or Exact Equivalent imported. <b>with</b>
	<b>b). Microplate washer with accessories;</b> strip/ plate washer, semi automatic, wash/ aspirate 96 wells simultaneously in <5 seconds, wash head 8- 12 needles, compatible for wash heads 1x8/1x12, wash time 1- 20 cycles , wash volume 50-1000µl, Dispense volume 50-400µl LCD Display and keypad, reservoir bottle buffer/ waste 2 liter each. Accessories: wash head 8/12, tubing, 2 liter reservoir wash/ waste bottle. Aerosol cover built in pump/ fluid delivery system, Operators manual Bio Tech, Bio Red, Thermo UK, USA, Germany or exact equivalent, compatible with the ELISA reader as above
	<b>c) Computer with i5, Intel mother board and processor</b>
	<b>d) Dot matrix printer,</b> 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.

Procurement Committee approved the technical specification and rate of M/S S.K. Trading Corporation Karachi for the item as under:

Technical Specification of the firm	Rate per unit
<b>ELISA Reader, Washer, computer and printer. ELISA SYSTEM, a) Microplate Reader, Model: AMR-100, Allsheng / Tomos Life Sciences , Singapore,</b> Feature: • Easy of use with 7 inch touch screen together with 3 external keys. • A broad wavelength range of 340-750nm. • Able to use individually or connect with PC and export results. • Absorbance range: 0.0~4.000Abs. <b>Software</b> AMR-100 keeps with high visual and logical user interface of software, it can be offered a comprehensive inbuilt calculations, such as blank subtraction, quantitative curve fit, qualitative classification and kinetic calculations, as well as the versatile reporting tool and make data reduction.	Rs.1,150,000/-
<b>b) Microplate Washer, Model: APW-100, Allsheng / Tomos Life Sciences, Singapore,</b> Features: • Low residual liquid, each well ≤0.5µl, • Compatible for microplates: flat, U, V, C bottom, • 4.3 inch color LCD display, easy to operate. • Washing head position can accurate to 0.1mm. • Wash parameters can be set to make sure the best washing effect.	
<b>c) Computer with i5, Intel mother board and processor</b>	
<b>d) Dot matrix printer,</b> 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,	

8.	<b>Low voltage Split Air Conditioner</b> 1.5ton, Max. Ambient temperature 48 <sup>0</sup> C ±5%, Remote hand set, LED Display length of tubing: 15cm or as per installation requirement Auto restart at previous function settings electricity in put 220V/50Hz (single phase) Noise level indoor 39/31dBA (high/Low), Rotary compressor, outer unit rust resistant. Haier, Gree, Dawlance, Orient, Mitsubishi or exact equivalent.
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Procurement Committee approved the technical specification and rate of M/S Habib & Sons, Hyderabad for the item as under:

Technical Specification of the firm	Rate per unit
Low voltage Split Air Conditioner (1.5ton), As per tender specification Orient /Haier	Rs.87,200/-

<b>Purchase of Furniture/Fixture</b>	
<b>1</b>	<b>Drawers in lab. Sections under the slab 4'.9"x2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle.</b>

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

Technical Specification of the firm	Rate per unit
Drawers in Lab. Sections under the slab 4'.9" x 2'.3" Aluminum frame, Aluminum 4 drawers, high quality sliding glass, lock and handle. Imported Material (Per Sq Feet)	Rs.2,200/- per sq.ft. (Rs.24,794)

<b>2</b>	<b>Fixture in Administrative Block, 14'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle</b>
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Procurement Committee approved the technical specification and rate of M/S Burraq Business Corporation, Hyderabad for the item as under:

Technical Specification of the firm	Rate per unit
<p>Fixture Administration Block: separate two panel partition height 7' each on 3'.5" each partition two drawers fix 12mm glass. Different colour glass paper also with wall paper on back wall inside show case LxHxD.</p> <p>Common Features: Full guage aluminum high quality, Best quality workmanship. Fitting Fixing. Different colours as your choice of aluminum. Sound air proof, dust proof tight fitting with brush, No noise with sliding sheels. wall paper. shelf with glass partition 12mm. VIP sliding material used. Best quality heavy duty, durable hardware lock, handle, rubber, gas kit etc use. Glass partition shelf with aluminum chorok. For rough used, best quality material used, no looseness of any part guarantee one year part change. Box window sliding section separate in 5mm glass and aluminum.</p>	Rs.344,800/-

<b>3.</b>	<b>Fixture in Administrative Block, 11'x7'x1.6' (LxHxD) Aluminum frame, space between drawer 22" high quality sliding glass lock and handle.</b>
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Procurement Committee approved the technical specification and rate of M/S Talha Enterprises, Karachi for the item as under:

Technical Specification of the firm	Rate per unit
Fixture in Administrative Block, 11'x7'x1.6' (LxHxD), Aluminum frame, space between drawer 22" high , quality sliding glass lock and handle, Imported Material (Per Sq Feet)	Rs.2,200/- per Sq.ft. (Rs.271,040)

<b>4.</b>	<b>Visitors benches, stainless steel heavy duty three seaters for reception counter with back &amp; arm rests.</b>
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Procurement Committee approved the technical specification and rate of M/S A.J. Enterprises, Karachi for the item as under:

Technical Specification of the firm	Rate per unit
Visitor Benches, Stainless Steel Heavy duty three seater, seat, frame of bench and pedestal of imported steel with arms. Imported quality.	Rs.19,000/-

### **It was further decided in the meeting:**

1. At the time of installation of items it will be suppliers' responsibility to make Hardware, Machinery & Equipment and Furniture/Fixture functional.
2. The firm will provide at least one year warranty for on site service, repair and spare parts against the Hardware, Machinery & Equipment and Furniture/Fixture.
3. All the firms will pay sales tax as per government rule from the approved cost.
4. The payment shall be made to the firms against the supply of items, ensuring that the items were according to the specification.
5. 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 2<sup>nd</sup> lowest bidder (subject to qualifying technical specification as per cumulative marks).

**Meeting ended with vote of thanks.**

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

Representative of  
District Accounts Office Hyderabad

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





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

**BID EVALUATION REPORT.**

1.	Name of procuring Agency.	Director, Veterinary Research & Diagnosis, Central Veterinary Diagnostic Laboratory Sindh, Tando Jam.	
2.	Tender Reference No.	No.CVDL/AC/ Tender/ 2015-16(III) .	
3.	Tender description Name of work/item.	<b>Hardware, Machinery &amp; Equipment and Furniture/Fixture</b>	
4.	Method of procurement.	Single Stage - Two Envelope Procedure	
5.	Tender Published.	<b>The News, Daily Ibrat, Daily Express dated 26-11-2015, Daily Kawish dated 27-11-2015</b>	
	<b>SPPRA website</b>	<b>S. No. 25873</b>	
6.	Total bid documents Sold.	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
7.	Total bids received.	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
8.	Technical Bid opening date.	23-12-2015	
9.	No. of technically qualified (if applicable)	No.CVDL/AC/ Tender/ 2015-16(III) .	11 Nos.
10.	Bid(s) Rejected.	Nil	
11.	Financial Bid Opening dated	28-01-2016	
12.	Bid evaluation Report.	Comparative Statement, Evaluation report & Minutes of Procurement Committee Attached Annexure-A ,B & C.	

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

Representative of  
District Accounts Office Hyderabad

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



**LIST OF OFFICERS PARTICIPATED IN THE PROCUREMENT COMMITTEE MEETING HELD ON 17-02-016 @ 11.30AM IN THE DIRECTORATE GENERAL, LIVESTOCK (EXTENSION/RESEARCH) SINDH, HYDERABAD FOR PROCUREMENT OF " HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR THE DIRECTORATE OF VETERINARY RESEARCH AND DIAGNOSIS, CVDL SINDH, TANDO JAM DURING THE YEAR 2015-16.**



1	<b>Dr. Abdullah Mewati,</b> <b>Director General,</b> Livestock (Extension/Research) Sindh, Hyderabad.	On chair.
2	<b>Dr. Aslam Pervez Umrani,</b> Director, Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam.	
3	<b>Mr. Ghulam Mustafa,</b> <b>Senior Auditor,</b> <b>Representative of District Accounts</b> <b>Office, Hyderabad.</b>	



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

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

DGL(E/R)/Tender CVDL-III/(02)2016/

Hyderabad, dated/

To,

The Secretary to Government of Sindh,  
Livestock and Fisheries Department,  
Karachi.

**Subject: MINUTES OF PROCUREMENT COMMITTEE MEETING HELD ON 17-02-2016 @ 11.30AM FOR PURCHASE OF "HARDWARE, MACHINERY & EQUIPMENT AND FURNITURE/FIXTURE" FOR THE DIRECTORATE OF VETERINARY RESEARCH & DIAGNOSIS CVDL TANDO JAM DURING THE FINANCIAL YEAR 2015-2016.**

It is submitted that the meeting of Procurement Committee held on 17-02-2016 @ 11.30AM for purchase of "**Hardware, Machinery & Equipment and Furniture/Fixture**" for the Directorate of Veterinary Research & Diagnosis CVDL Tando Jam during the financial year 2015-2016.

The minutes of the Procurement Committee are enclosed for necessary approval and return to the Director, Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam for submission to SPPR Authority along with other necessary documents for completion of tendering process as per rules.

(Dr. Abdullah Mewati)  
Director General

No.DGL(E/R)/Tender CVDL-III/(02)2016/

/Hyderabad, dated/

Copy forwarded with compliments to the Director, Veterinary Research & Diagnosis, CVDL Sindh, Tando Jam for information.

(Dr. Abdullah Mewati)  
Director General





GOVERNMENT OF SINDH  
LIVESTOCK AND FISHERIES DEPARTMENT

021-99204248

**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**

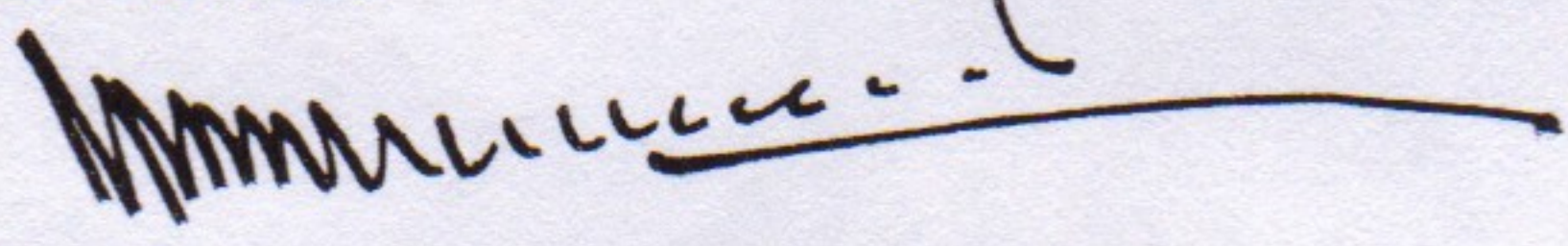
- (i) Director General (concerned)
- (ii) Director/PD/Dy. Director /Suptt: Govt. Farms /DDOs (concerned)
- (iii) Representative of A.G. Sindh / D.A.O (concerned)

Chairman  
Member  
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: 15.09.2014 is hereby cancelled / withdrawn.

  
NOOR MUHAMMAD LEGHARI  
SECRETARY TO GOVERNMENT OF SINDH

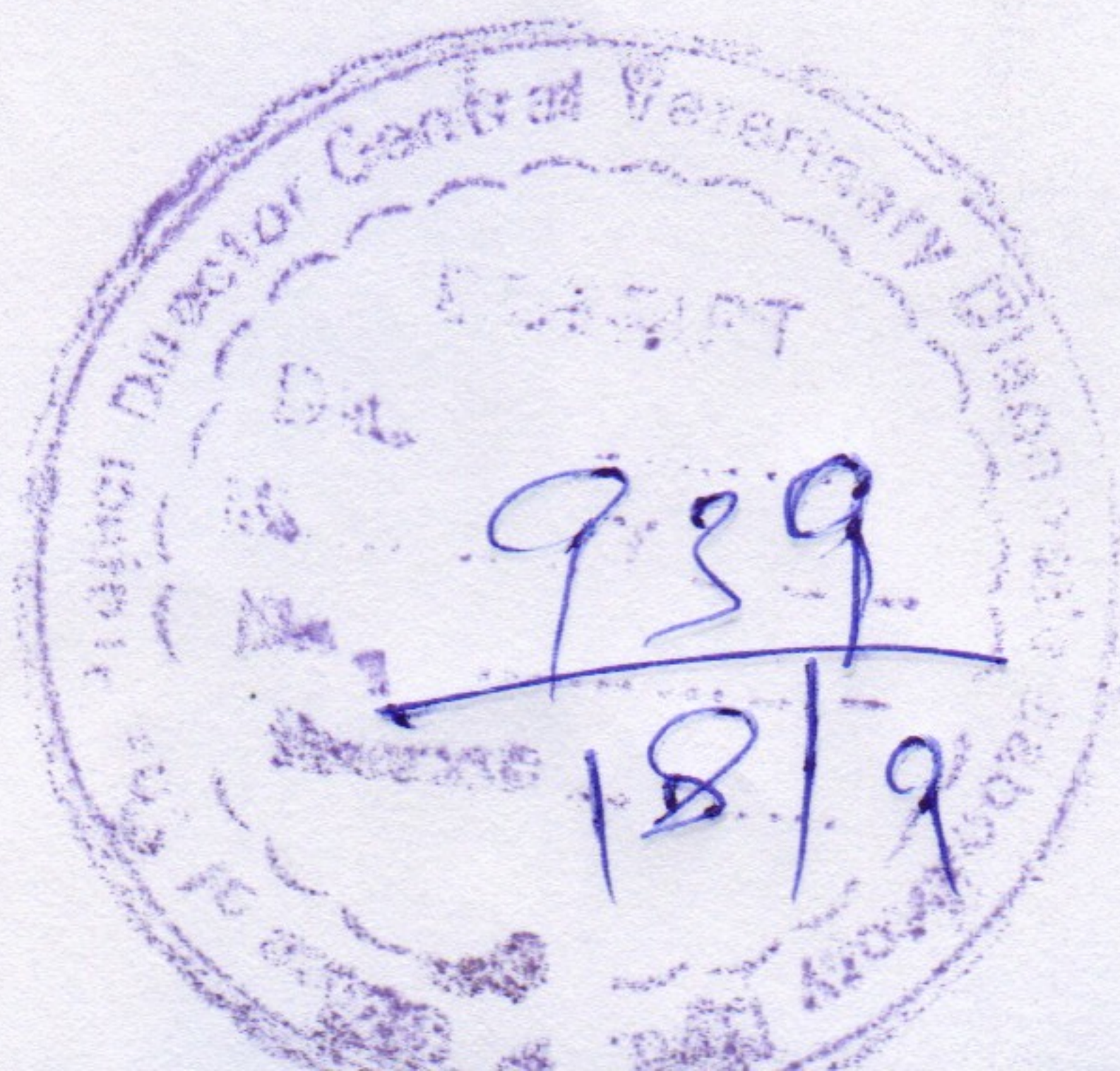
NO.SO(G)/L&F/2(70)/14-15: *13561*

Karachi, dated *10.09.2015*

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,
- (vii) Government of Sindh, Karachi.
- ✓* (viii) The Directors in Sindh (All). *Director CNDL Tando Jan*
- (ix) The Deputy Director, Livestock/AH/Livestock Production/Poultry
- (x) Production/Fisheries (All in Sindh).
- (xi) The District Accounts Officer concerned.
- (xii) The PS to Secretary, Livestock & Fisheries Department Government of Sindh Karachi.

  
(MUHAMMAD ANWAR MALIK)  
SECTION OFFICER (GENERAL)



*ACW*  
*18/9/15*