

18/10/2021
Final

Sr#	Item Description (Zoology Lab Equipment)	Qty	Gharsa Laboratory Supplies	Wahid Scientific Store	Scientific Technical Cooperation	Key Scientific Corporation	New Chemical Centre	Hale marketing International	Rays Technologies	AGBL	SU Interprises
1	Animal Cages: wire cages Size: Triple; 26 3/8' W*10 5/8' D*7 1/8' H. China or equivalent	10	Not Quoted	Local Pakistan Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
2	Bench top Centrifuge 4 x 1000mL, Max. RCF 25,314 x G, Max. Speed 15,200rpm. Digital Display. Noise level <61dBA, Accel/Decel Profiles 9 Accel /10 Braking. Electrical Requirements 120V 60Hz. USA , Japan or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Presvac, Modal DP-2065 R plus Technically dis qualified, letter of atherization is not attached	K244FS, Centorion Scientific, UK, Technically qualified	Model ZK496 Hermle Germany Technically Qualified	Model:10096934 Fisher Brand Technically qualified	Not Quoted	Not Quoted	Max. Speed 15,200rpm required, 1400 rpm quoted, Max. RCF 25,314 x G required. RCF 3082x G quoted. Technically disqualified;	Model ROTANTA 460 Hettich Germany Technically Qualified
3	Binocular Compound Microscopes: Optical System: Antifungal, Infinity corrected Viewing Bodies: Siedentopf Binocular tube, 30° inclined, 360° rotatable, Interpupillary distance 48-75mm. Eye pieces: Wide Field focusable paired eyepiece WF 10x/20mm, with foldable eyeguard. Nosepiece: Reverse angle quadruple nosepiece (Ball-bearing type) with click stops and rubber grip. Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives, antifungal 4x/NA 0.10/WD 30.mm.10x/NA 0.25/WD 7.0mm 40x (spring loaded)/NA 0.65/WD 0.65mm, 100x (spring loaded, oil)/NA 1.25/WD 0.23mm. Mechanical Stage: Rackless X-axis, double plate mechanical stage plate size 200 x 160mm, X/Y travel range 78 x 54mm. Focusing: Fine focus 0.3mm per rotation. Illumination: LED Illumination with built-in rechargeable battery making it cordless during use. LED lamp rated upto 100,000 hours operating life. Electrical: Universal input 100V-240V AC, 50/60 Hz. immersion oil TYPE A. USA , Japan or equivalent. Authorization letter required from direct manufacturer/Principal	3	Not Quoted	MB1152, Euromex, Holland Technically disqualified; latter of atherization is not attached	Model Lx400 LABOMED USA, Technically Qualified	Not Quoted	Model STM-2052B Stalwart, USA, Technically Qualified	Modal D-292PLi Optica microscope Italy Technically Dis qualified NO Direct atherization latter attached .disobey condition 5 of tender document	CX23LED (Binocular) Olympus Japan,; Technically Qualified	Not Quoted	BB.1152-Pli Euromex NETHERLAND Technically Disqualified, atherization letter is expired

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4	Blenders (varous processing capacities: High Throughput, No cross contamination, samples stay cool, convenient, Risk free USA , Japan or equivalent.	2	Not Quoted	National Japan Technically qualified,	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
5	Blood Chemistry Analyzer: fully automatic with accessories. Made in Europe or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Edif Instruments S.r.l. Italy Technically Qualified	Not Quoted	Not Quoted	Not Quoted	MFCA-200 Mini Medfuture USA Technically Disqualified, Authorization letter not attached	Model FACA-261 Labomed Inc USA Technically Disqualified; Direct letter of authorization is not attached	Not Quoted	Model Avichem Mini Avicenna Italy Technically Qualified	Not Quoted
6	Chemical oxygen demand meter: T digest: 165 °C±1.0 , Digest time: 10min , Measuring range: 5–5000mg/L, Measurement time: The water samples of 12/25/36 branchare simultaneously tested in 20min, Resistance against chlorine interference: [CL-]<1000 /L[CL-]<4000mg/L(optinal), Precision: COD=20 mg/L V<10% , COD=300 mg/L V<4.3%, Display: LCD. USA , Japan or equivalent.	1	Not Quoted	TentoMeter Germany, Technically Qualified	Not Quoted	Not Quoted	Model 12708725 Fisher Brand Technically qualified	Technically disqualified; Required Specifications like measuring range, Resistance against chlorine interference not quoted	Not Quoted	Not Quoted	Not Quoted
7	Chemical lab safety equipments: Safety Shower, First aid kit , Phone, Fire extingwisher , eye washer, Fire blanket , spill neutilizer, Safety gloves , chemical gas mask , fischer safe glasses , safety googles, fuming hood . USA , Japan or equivalent.	2	Not Quoted	Fumehood Esco Singapore, Technically qualaified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
8	Chest Freezer: 385 L Cubic Feet Capacity • Up To 30 Hours Cooling Retention After Power Failure(Keep temperature below -9 degree • Comfortable door hinge design can be moved to different angle. • 58 Kg Weight. USA , Japan or equivalent.	3	Not Quoted	Haier, Pakistan, Technically Qualified	Model CFQ 2002 LABOQUEST USA Technically Qualified	Model LPR-400-PE PHCBi Japan Techniqually Qualified	Not Quoted	Haier 15 Cubic Feet CUFT(HDF-385H) Haier Pakistan Technically qualified	Not Quoted	Not Quoted	LPFT-370 ARCTIKO DENMARK Techniqually Qualified
9	Digital Precise Water Bath with Digital control: Capacity: 22 Lit.Temp. Range & Accuracy: Ambient +5°C ~ 100°C, +0.1°C, Temp. Resolution: 0.1°C - Display, 0.1°C - Control, Temp. Uniformity & Probe: +1.0°C, PT100, Heating Power: 2 kW. Timer & Alarm: 99hr 59min (Delay & Continuous run), Error status & Timer-end. Display: Digital LCD with Back-Light Function Safety Circuit: Over-Temp. / -Current protection, Material: Stainless steel. Dimension (W x D x H) Internal: 500 x 295 x h150mm. Dimension (W x D x H) External: 535 x 330 x h260mm. Power Supply: AC 230 V, 50 / 60 Hz. USA , Japan or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	VSV-1000DD Digi system Taiwan Techniqually Dis qualified indirect authorization latter attached .disobey condition 5 of tender document	Model WB-22 DAIHAN Scientific CO.,Ltd. Korea Techniqually Qualified	Not Quoted	Model:11429509 Fisher Brand Technically qualified	LWB-122D Daishan Lan Tech Korea Techniqually Dis Qualified indirect authorization latter attached. disobey condition 5 of tender document	Modal WNB22 Memmert Gwrmany Techniqually Qualified	Model NB20 NUVE Turkey technically Qualified	WOB 28 PolyScience USA, Techniqually Qualified

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10	Digital Weighing Balance: Four touch less sensors for hands-free operation of print, calibration, tare, and other selectable functions. Capacity (g) 320, Readability (g) +0.1mg, Repeatability std (g) +0.0001, Linearity (g) +0.0002, Stabilization Time (sec) ≤3, Pipette Adjustment, SQC, auto Calibration on 1.5C temperature change, Full-color VGA graphic display, 4-wire resistive touch screen 5.7 in / 145 mm, RS232, USB, Pan Size 90mm, IR Sensor 04 Nos, automatic door opening & closing. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Not Quoted	Technically disqualified, Specifications like Capacity 320g required, 310 g quoted. pan size 90mm, VGA graphic display, are not Quoted	Not Quoted	Model:15399032 Fisher Brand Technically qualified	Not Quoted	Modal ATX-324 SHIMADZU JAPAN Technically Qualified	Not Quoted	EX324 OHAUS, USA Technically Qualified
11	DNA Isolation Kit: Concentration: 5 units/µl, Recombinant enzyme: Yes, Substrate analogs: dNTP, ddNTP, dUTP, biotin-11-dUTP, DIG-11 dUTP, fluorescent-dNTP/ddNTP, Extensionrate: 2-4kb/min at 72°C Half-life: 10 min at 97°C; 60 min at 94°C, Amplification efficiency: ≥10 ⁵ fold, 5'→3' exonuclease activity: Yes, Contaminating nucleases: No, Contaminating RNases: No, Contaminating proteases: No, Self-priming activity: No. USA, Japan, Germany, UK or equivalent	10	Not Quoted	Wizbio Korea Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
12	DO Meter: Measurement Units DO (Dissolved Oxygen) in mg/L units. Temperature in °C/°F units Datalogger Sampling Rate AUTO LOGGING: From 1 second to 8 hours 59 minutes and 59 seconds. Memory Card: SD Cards 1G to 16GB Display update rate Approx. 1 second. Data Output RS-232 / USB PC computer interface Operating Temperature 0 to 50°C (32 to 122°F) Operating Humidity 85% R.H. max. Power Supply Six (6) 1.5 VDC batteries (optional 9V AC adaptor) With backlight OFF and datalogging ON: approx. 37mAdc With backlight ON add approx. 12mAdc Weight 362g (0.79 lbs.) meter only Cable Length 4m (13.1ft) Dimensions Main instrument: 182 x 73 x 47.5mm (7.1 x 2.9 x 1.9") Probe: 190 x 28 mm (7.5 x 1.1") diameter. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Model HI2004, Hanna USA, Technically disqualified, Authorization letter not attached	Model S-612, Peak Instruments. USA Technically qualified;	Not Quoted	Model 11681469 Fisher Brand Technically qualified	Model HI-2004, HB EDGE Hanna Instrument USA Technically Dis Qualified NO Direct authorization letter attached .disobey condition 5 of tender document	Model MULTI 3510 IDS SET 4 WTW, Xylem brand GERMANY Technically Qualified	Not Quoted	STARTER 300T Ohaus USA Technically Qualified
13	EC Meter: 4-pole linear electrode, Automatic temperature compensation, Conductivity range 0.0 µS/cm to 199.9 mS/cm, TDS range 0.1 mg/l to 199.9 g/l, Salinity range 0.00 to 19.99psu, Temperature range 0°C to 100°C, Resolution Automatic range: 0.1°C, Error Limits ± 0.5 % Measured Value. ± 0.3°C, 1 point. 3 predefined standards for calibration, White backlight liquid crystal, Temperature Compensation Linear: 0.00 %/°C. 10.00 %/°C, Standard Solution 50ml USA, Germany, Japan or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Model Ad3000, Adwa, hungry, Technically disqualified, Authorization letter is expired and indirectly authorized	Model S-611L PEAK Instrumental Inc. USA Technically Qualified	Not Quoted	Model :11661469 Fisher Brand Technically qualified	Model HI-2300, Hanna Instrument USA Technically Dis Qualified NO Direct authorization letter attached .disobey condition 5 of tender document	INOLAB COND 7110 /SET WTW, Xylem brand GERMANY Technically Qualified	Not Quoted	STARTER 3100C OHAUS USA Technically Qualified

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14	Egg incubator : (small lab incubator), capacity 500 eggs. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	SHF 40ADS-MAXI, FIEM ITALY Technically Qualified
15	Electric oven : Capacity: 105 Lit. Dimension (W x D x H) Interior (mm): 485 x 415 x 535. Dimension (W x D x H) Exterior (mm): 653 x 712 x 882. Heater Power: 1.4 kW. Temp. Range: Ambient Temperature +5°C to 250°C.Temp. Fluctuation: +0.3°C at 100°C, +0.5°C at 150°C. Temp. Variation: +1°C at 100°C, +1.8°C at 150°C .Temp. Sensor: PT 100.Control Resolution: +0.1°C.Heat-up Time: 25 min. to 100°C, 45 min. to 50°C. Recovery Time (Door open 30sec): 6 min. to 100°C, 6 min. to 150°C. Controller: Digital Fuzzy Control by Advanced Microprocessor Jog-Dial with Push Button. RS232 Port: Available to connect with PC.Display: Digital LCD with Back Light.Timer: 99hr 59 min (delay/continuous function). Glass Wool. shelves: 2ea of Stainless steel. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	XUE-112 ETUVES France Technically disqualified indirect authorization latter attached .disobey condition 5 of tender document	Model :ThermoStable OF-105 DAIHAN Scientific Co.Ltd KOREA Technically qualified	Not Quoted	Model :15825911 Fisher Brand Technically qualified	Not Quoted	Model UN-110 Memmert Germany Technically Qualified	FN500P, Nuve, Turkey Technically Qualified	SLM-115 STD - IMOX-G POLEKO, POLAND Technically Qualified
16	Fish Measuring boards : Wooden board with attached 1 meter scale. Dimension: 40x55x1.6 cm (15.7x21.7x0.6 ic.). Weight each segment 3.82 kg. USA, Japan, Germany, UK or equivalent.	10	Not Quoted	Local Technically qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
17	Fishing nets : Gill nets (mesh size: 0.5 to 1inch), scooped nets, hand line. USA, Japan, Germany, UK or equivalent.	3	Not Quoted	Local Technically qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
18	Gel Electrophoresis Vertical : vertical system (A) + 2 sets of glass plates with bonded 1 mm thick spacers + 2 combs, 1 mm thick, 24 samples + cooling pack + dummy plate. Power supply for electrophoresis. EV243 Mini power supply, 400 V / 300 mA / 50 W. Electrophoresis Unit. Gel Caster Unit. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	ME-1010-7-10 Major Science USA Technically disqualified latter of authorization is not attached	MV-10DSYS MAJOR SCIENCE . USA Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Model TV100-Scie- Plas England Techniqually Dis qualified Valid authorization latter attached. No	Model Azure Quad Mini-Cell Azure Biosystem Technically qualified	Not Quoted
19	Glass ware drying cabinet : capacity 125 L, 3 adjustable shelves, Max temp: ambient +50. USA, Japan, Germany, UK or equivalent.	1	Not Quoted	XAS-320 ETUVES France, Technically disqualified indirect authorization latter attached. disobey condition 5 of tender document	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	2000381 JP SELECTA SPAIN Technically disqualified, authorization letter is expired
20	Glucometer : Weight; 0.2 lbs (75 g). Dimensions: 3.6 in x 2.3 in x 0.9 in (91 mm x 58 mm x 23 mm). Sample Volume Required ; 1.2uL. Time to Glucose Results ; 6 seconds. Data Transfer ; Nova Microsoft-Excel based data transfer Software.Battery Information; Type ; 3V Li Button Battery; Features; Replaceable. USA, Japan, Germany, UK or equivalent	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Best Check Taiwan Technically Qualified	Not Quoted	Not Quoted	Not Quoted

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21	Heating Block: Temperature range °C ambient + 10 to 400, Stability (DIN 58966)°C ± 0.5 (up to 300°C) Uniformity °C 1%, Display LED, Display resolution °C 1, Timer mins 1 to 9999, Alarms, high/low, Heat up time ambient to maximum, mins, 100, Heating block, l/w/d, mm, 190 x 140 x 75, Capacity, BT5D-16 38 x Ø 16 x d60 mm tube, BT5D-26, 22 x Ø 26 x d60 mm tube, Safety, overtemperature protection adjustable cut-out, Electrical power 230 V 50/60 Hz W, 750, 120 V 50/60 Hz W, 750. USA, Japan, Germany, UK or equivalent.	1	Not Quoted	BTD-5 GRANT Instrument UK Technically disqualified Indirect authorization latter attached .disobey condition 5 of tender document	Model BT5D-16 GRANT Instruments, UK, authorization letter not attached Technically Disqualified	Not Quoted	Not Quoted	Not Quoted	Technically disqualified; Specifications like tempature range 10 to 400 Demand: 30-200 quoted, stability 0.5 demand: 1 quoted, uniformity, timer mins 1-9999 demand: 1-999 quoted	Not Quoted	Not Quoted
22	High performance electric vacuum pump: electric vacuum pump 1/4HP-1 HP /1.5CFM-12CFM/110V-220V. USA, Japan, Germany, UK or equivalent.	2	Not Quoted	Rocker 300 Rocker USA Technically Qualified	Model ROCKER 400 ROCKER SCIENTIFIC/TODAY USA Technically Qualified	Not Quoted	Not Quoted	Model AS20 China Technically Qualified	RE2.5 VACUUBRAND GERMANY Technically Qualified	Not Quoted	Not Quoted
23	Homogenizer: Particle reduction down to 1 µm. Operating range up to 2.5 liters. Maximum speed 24000 rev/min. Overall 75 x 60 x 250 mm. For 230 V, 50/60 Hz. Single Phase Supplier. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	D500 SCILGEX USA Technically Disqualified Indirect authorization latter. disobey condition 5 of tender document	Model HG-15D DAIHAN Sxientific Co.Ltd KOREA Technically Qualified	Not Quoted	Model:15505819 Fisher Brand Technically qualified	Model :D160 DLAB USA Techniqually Dis Qualified NO Direct authorization latter attached .disobey condition 5 of tender document	Not Quoted	Not Quoted	D-160 D LAB USA Technically Qualified

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24	Hot plate with stirrer: Material Body Powder Coated Aluminum. Material Plate: Solid Ceramic Glass Plate, 200 x 200mm. Stirring Capacity (H2O): Max. 20 Lit. Speed & Control Resolution: 80 ~ 1,500 rpm, 5 rpm. Temp. Range & Accuracy: Max. 500°C, ±0.3°C at Set Temperature. Temp. Resolution: 0.1°C - Display, 0.5°C - Control. Heating Power / Consumption: 850W. Timer & Alarm: 99hr 59min (with Continuous run.), Error status & Timer-end Display: Digital LCD with Back-Light Function Controller: Digital Feedback Controller with Jog Dial (Turn+Push) and Touch button. Stirring Bar: 3cm bar-included, Usable : up to 5cm bar. Safety Circuit: Over Temp. Protection, Hot Top Indicator LED Lamp. Permissible Temp. & RH %: Ambient +5 ~ 50°C, 85% RH. Dimension & Weight: 205 x 345 x h135mm, 3.3kg. Power Supply & Cord/Plug: AC 230 V, 50 / 60 Hz, with Cord/Plug. Including: External/Direct Contact Temperature Probe. USA, Japan, Germany, UK or equivalent.	2	Not Quoted	MS7-H550-PRO SCIOGEX USA Technically Dis Qualified, Indirect authorization latter attached ..disobey condition 5 of tender document	Model :MaXtir MSH 500 DAIHAN Scientific Co.Ltd KOREA Technically Qualified	Not Quoted	Model:SLR Wiggins Germany Technically Qualified	Modal MS7-H550-S onilab,USA Technically Dis Qualified NO Direct authorization latter attached .disobey condition 5 of tender document	Model ARECX with PT1000 Probe Velp Italy Technically qualified	Model MSH300 Biosan Latvia Technically Qualified	Model e-G51HS07C Ohaus USA Technically Qualified
25	Ice Flake Machine: compact body size to fit to under counter.Wide door design for easy to take ice out of bin. Smart protections: Protection from unusual electrical condition. Ice production capacity: 120kg/day with ice storage bin 60kg, air cooled type complete unit. Operated on: 220V, 50 Hz. Western Europe, USA, Japan or equivalent. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	COM - 150 5020106 JP SLECTA SPAIN Technically disqualified Indirect authorization latter attached. disobey condition 5 of tender document	Model :SFLQ1010 LABOQUEST INC. USA Technically Qualified	Not Quoted	Model SIM-200F Stalwart USA Technically Qualified	Technically disqualified, Ice production capacity 120kg/day demand: 45kg/day quoted, stroage bin capacity 60 kg demand: 3 kg quoted and direct letter of authorization is not attached	Model FIM140 Evermed Italy Technically Qualified	Not Quoted	SPR120 SIMAG ITALY Technically Qualified
26	Inverted Microscope: with in-built camera connectivity in eyepiece. Objective 0.56X – 4.5X eyepiece WF 10 X. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	OX.2003-PL Euromax Holland Technically Disqualified Authorization letter not attached	Model:TCM400 LABOMED USA Technically Qualified	Not Quoted	Model STM-2093B Stalwart, USA Technically qualified;	IM-3Optica microscope, Italy, Technically disqualified, Indirect authorization latter attached. disobey condition 5 of tender document	Model CKX53LED OLYMPUS JAPAN Technically Qualified	Not Quoted	Technically disqualified; Objective 0.56X – 4.5X eyepiece not quoted

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27	Kemmerer's water sampler: Glass bottle having capacity of 1.2L. The body of the sampler can be made of clear acrylic, lexan, or P.V.C., and the metal parts are machined from stainless steel. The bottle is closed by means of amessenger and the sample is brought to the surface in a strictly unmodified condition. Samples can be drawn off by means of a drain in the lower stopper. USA, Japan, Germany, UK or equivalent	4	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
28	Killing jars: For killing insects. China or equivalent	30	Not Quoted	China, Technically qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
29	Maximum/Minimum Thermometer: Measuring range: -30 to +50. USA, Japan, Germany, UK or equivalent	10	Not Quoted	ZEAL UK, Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	P5135 PECK TECH GERMANY Techniqually qualified
30	Micropipette Multi Channel: Precise pipetting control, - 0.1µl-100µl . Filling and delivery are easily controlled with a small sensitive lever, Autoclavable silicone pipette holder. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	5	Not Quoted	LAVO+ SCI LOGEX USA Technically disqualified Indirect authorization latter attached. disobey condition 5 of tender document	Technically disqualified; Demand volumetric range 0.1µl-100µl demanded: 0.5-10µl quoted	Not Quoted	Not Quoted	Not Quoted	Model P8×101 Gilson France Technically qualified	Not Quoted	Not Quoted
31	Portable pH meter : pH Range: -1.00~15.00pH pH Accuracy: ±0.01pH. Resolution: 0.01pH. mV Range: -1000~1000mV. Resolution: 1mV. Temperature Range: 0~105°C, 32~221°F. Resolution: 0.1°C. Calibration Points: 1~3 points. Power Requirements: DC9V, using AC adapters, 220VAC/50Hz. Dimensions: 210(L) x 205(W) x 75(H)mm. Weight: 1.5kg. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	5	Not Quoted	AD111 ADWA HUNGARY Technically Disqualified, Indirect authorization latter attached. disobey condition 5 of tender document	Model P5-10 PEAK Instrument USA Technically Qualified	Not Quoted	Model 11611449 Fisher Brand, Technically qualified	HI-8424 Hanna Instrument USA Techniqually Dis Qualified NO Direct authorization latter attached .disobey condition 5 of tender document	Model PH3110 SET 2 WTW, xylem brand, GERMANY Techniqually Qualified	Not Quoted	STARTER 31 OHAUS USA Technically Qualified
32	Secchi Disc Kit: Includes detachable 24 oz. zinc sounding weight. Silk screened black and white quadrants 20cm diameter polycarbonate disc. USA, Japan, Germany, UK or equivalent	2	Not Quoted	Local, Technically qualified;	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted
33	Stage micrometer: 59-1403 stage micrometer. calibrated glass slides with 1mm scale length divided into 100 parts (1 division = 0.01mm). USA, Japan, Germany, UK or equivalent		Not Quoted	ERMA Technically qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted

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34	Stereo microscope with digital camera : Ground plate with filter magazine. Daylight filter, 32mm. Tube Optic P 1x/1.6X+Bertrandl.+Quarzpl.Basic Docu Tube POL BDTP 25.Tube adapter incl. 1 docu. Port No : 11505161.Eyepiece HC PLAN s 10x/25 Br.M +reticule. Pol-Stage w. 45°-click stop to o-11551077. Advanced Object guide for Pol-Stages. Condenser BF. Condenser head P 0.90 S1. Analyzer360°, 30x5 without grey filter.Whole-wave plate f. compensator slot. Halogen lamp 12V 100W. Lamp housing 106, 12V 100W, 2-lens,0.55m 1 536.80 536.80. Cube P to Smith, Polarizer R/P, L 29x11.5 .Halogen lamp 12V 100W. Lamp housing 106, 12V 100W, 2-lens,0.55m .Digital Camera & SW Kit. C-Mount HC 0.55x. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	10	Not Quoted	Model ZM-160A DigsystemTaiwan Technically Dis qualified Indirect authorization latter attached. disobey condition 5 of tender document	Model LUXEO6Z LABOMED USA Technically Qualified	Not Quoted	Model:STM-3040T Stalwart USA Technically Qualified	Not Quoted	Model SZX7 OLYMPUS JAPAN Techniqually Qualified	Not Quoted	5D.1903 EURO MAX NETHERLAND Technically disqualified, authorization letter is expired
35	UV Transilluminator: Transilluminator allows selection of 8-watt long wave, midrange or shortwave in one compact unit. View gels using long wave UV for extended periods of time reducing photo nicking damage, Compact size, High Performance, Stainless steel filter assembly, Single Intensity 254/302/365nm UV, Filter Size 20 x 20cm. USA, Western EEC, Japan, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	CSLUVTSDUO Cleaver Scientific Uk Technically Disqualified Authorization letter not attached	Model MUV21-254/365 MAJOR SCIENCE USA Technically Qualified	Not Quoted	BT903, BT Lab, Technically qualified.	Not Quoted	Model MD-20 Wealtec USA Technically Qualified	Not Quoted	PUL 100 JEL COMPANY USA,Technically Disqualified indirect authorization latter attached .disobey condition 5 of tender document
36	Vacuum drying oven: Capacity: 30 Lit. Vacuum Range: 10 ~ 750 mmHg. Temp. Range / Sensor: Ambient +5°C to 200°C. Accuracy/Uniformity: + 0.5°C at 100°C / +2.0°C at 100°C. Heating Power/Consumption: 300W x 2ea. Heat-up Time: 50 min. to 100°C, 90 min. to 150°C. Display: Digital LCD with Back Light. Digital Fuzzy Controller with Jog-Dial Switch (Turn & Push).Resolution: Control: +1.0°C , Display: +1.0°C. Shelves: Included 2ea Aluminum Shelves. Safety Circuit: Over Temp. and Over Current Protector. Material: Internal: Stainless steel (#304), External: Powder Coated steel, dimension (W x D x H) Interior (mm): 300 x 330 x 300;Dimension (W x D x H) Exterior (mm): 507 x 483 x 577; Vacuum Inlet Valve Size: od. 10 mm; Net Weight: 56 kg, Power Consumption: 600 W. Power Supply & Cord Plug: AC 230V, 50 / 60Hz; With Vacuum Pump, Max. power: 220 W; Max. current: 0.9 A; Max. vacuum: -670 mmHg; Max. flow rate: 80 l/min; Motor rotation: 1450 RPM; Horse power: 1/3 HP; Noise level: 68.0 dB; Port thread: 3/8 inch (8 mm); Net weight: 7.6 kg; Dimension (LxWxH): 34.5x17.5x20 cm; Power Supply: 220V/50Hz. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	Technically Disqualified Demanded Specifications like Capacity not Quoted	Model THERMO STABLE OV-30 DAIHAN SCIENTIFIC Co.Ltd KOREA Technically Qualified	Not Quoted	Not Quoted	LVO-2030, Daihan Labtech, Korea, Techniqually disqualified , Indirect authorization latter attached .disobey condition 5 of tender document	Model VO29 MEMMERT GERMANY Technically Qualified	Not Quoted	Technically disqualified; chamber capacity 30ltr demanded.16 ltr quoted,

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37	Vortex: Speed Range: 0 ~ 3,300 rpm. Shaking Motion: Orbital. Control: Analog Phase Controller. Material: Aluminum Die-casting with Powder Coating. Dimensions (W x D x H) (mm): 160 x 128 x h145 mm. Weight: 3 kg Power Consumption: 30 W. Power Supply & Cord Plug: AC 230V, 50 / 60Hz. USA, Japan, Germany, UK or equivalent Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	VM10 DAIHAN Korea technically Disqualified Authorization letter not attached	Model VM2 DAIHAN KOREA Technically Qualified	Not Quoted	Model BT903, BTLab, Technically qualified	FTVM-501 Sci FineTech Korea Technically disqualified, Indirect authorization latter attached. disobey condition 5 of tender document	Model ZX3 VELD ITALY Technically Qualified	Technically disqualified, Speed Range: 0 ~ 3,300 rpm required: 500-3000rpm quoted, weight 3kg required: 0.8 kg quoted	Technically disqualified, Speed Range: 0 ~ 3,300 rpm demanded: 0-2500 quoted
38	Water Distillation & deionization system: Capacity (Liters/hr) 4, Output Quality of distilled Water pH 5.0 ~ 6.5, Conductivity $\mu\text{S}/\text{cm}$ <2.5 (depend on water), Resistivity mega ohm-cm 0.4, Temperature <35°C, Heater / Wattage Silica / 2 x 1.5kw. Feed water pressure 1 to 6 bar, Manganese and iron content <0.05 mg/l, Free chlorine content < 1 mg/l, Silt density index (SDI) max. 3, Type I ultrapure water, Particle and bacteria content < 1 CFU/ml, Type II pure water, Pure water conductivity 15-10 M Ω x cm \pm 0.067-0.1 $\mu\text{S}/\text{cm}$, Pure water performance at 15°C 12 l/h, With tap water input Spare cartridges 3 sets. Germany, USA, Japan or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	IM-50 IRMECO Germany technically Disqualified Authorization letter not attached	Model MICROMADI C DI WASSERLAB SPAIN Technically Qualified	Not Quoted	Not Quoted	FAVORIT -W4L PLT- SCIENTIFIC Malasiya Technically Qualified	Model Omnia Tap 6 Stakpure Germany Technically qualified	Not Quoted	Model: WSB/4+HALIOS6, Neptec, Germany Technically Qualified
39	Autoclave Digital Microprocessor controlled: Capacity: 60 Lit., Temp. Range & Accuracy: Ambient +5°C to 132°C, +0.5°C at 121°C. Pressure & Gauge: 1.2 kgf/cm ² at 121°C / 2.0 kgf/cm ² at 132°C, 0 ~ 3 kgf/cm ² . Sterilization mode: Solid- or Liquid-mode, Heating Power/Consumption: 3 kW. Timer & Alarm: 60 min, Error status & Timer-end, Display: Digital LCD with Back-Light. Digital Fuzzy-Control System. Door & Closing System: Lever-type Sliding Door. Electronic Door Closing System, Safety Circuit: Material: Stainless steel (#304)-Pressure Vessel, Powder Coated steel-External, Basket: 2ea of Stainless steel Wire Baskets are Included Basket Dimension (mm): Dia. 320 x h240, Power Supply: AC 230V, 50/60Hz. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	HV-85 Hirayama Japan technically Disqualified Authorization letter not attached	Model MAXTERILE 60 DAIHAN SCIENTIFIC Co.Ltd KOREA Technically Qualified	Not Quoted	Model: CL-40S, ALP, Japan. Technically Disqualified, Authorization letter not attached	LAC-50605 DAIHAN Lab Tech Kora Technically Disqualified NO Direct authorization latter attached. disobey condition 5 of tender document	Model HVA-85 Hirayama Japan Technically Qualified	Not Quoted	Model: RTA60 Robus Technology Ltd. UAE. Technically disqualified, direct authorization letter is not attached. Disobey condition 5 of tender document
40	Cold Cabinet: Max. flow 225L/h @ 0 head Max. rec. head 35m Tank capacity 11L Sound level@1m 60dB(A) Power supply 230 VAC, 0.38A, 50/60Hz. Max. water temp 40°C / 104°F Inlet/outlet 50mm in, 10mm out IP Protection IP21 Safety switch 3.0A Normally closed. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	2	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Not Quoted

Item Description (Zoology Lab Equipment)	Qty	Gharsa Laboratory Supplies	Wahid Scientific Store	Scientific Technical Cooperation	Key Scientific Corporation	New Chemical Centre	Hale marketing International	Rays Technologies	AGBL	SU Interprises
41 Compact Digestion System Kjhalhdhal: Microprocessor built-in the case All programs can have up to 18 steps for temperature/incubation Sample size: Solids: 5 gr. (macro), 1 gr. (micro) Liquids: 15 mL. (macro),3 mL. (micro). H x W x D in mm: 740 x 355 x 565.Temp. °C: 450. Power W: 2000. USA, Japan, Germany, UK or equivalent Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	IBU-6 Begger Slobeniva Europe technically Disqualified Indirect Authorization letter attached. Disobey condition 5 of tender document	Model MBCM-24 RAYPA SPAIN Technically Qualified	Not Quoted	Not Quoted	Not Quoted	18 steps for temperature/incubation. Sample size: Solids: 5 gr. (macro), 1 gr. (micro) Liquids: 15 mL. (macro),3 mL. (micro) Temp. °C: 450 not quoted. Technically disqualified	Not Quoted	Technically disqualified; Specifications like programs steps for temperature, incubation18 demanded: 10 quoted
42 Cryotome with all accessories: Temperature Range: Cryochamber: -35 to 0 °C (-31 to 32 °F) Temperature Range, Cryobar: -55°C (-67 °F) to chamber temperature. Specimen Head (14011-026 only): -40 to 0 °C (-40 to 32 °F) (Within ±10 °C of chamber temperature). Temperature Range: Electrical: 115 V, 60 Hz USA, Japan, Germany, UK or equivalent	1	Not Quoted	Not Quoted	Model MEV SLEE MEDICAL Gmbh GERMANY Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Temperature Range: Cryochamber: -35 to 0 °C (-31 to 32 °F) Temperature Range, Cryobar: -55°C (-67 °F) to chamber temperature. Specimen Head (14011-026 only): -40 to 0 °C (-40 to 32 °F) (Within ±10 °C of chamber temperature) not quoted. Techniqually disqualified	Not Quoted	ASU 500 SEMI AUTOMATIC CRYOSTATE AMOS AUSTRALIA Technically Qualified
43 Elisa Reader: Latest LED technology and high quality data. 21 CFR part 11, and EC/98/79 IVD-D compliant LT-com PC control, data analysis software. Fast and accurate results- 8 channel (+1 reference) Proven reliability - Tested reliability of >100,000 plates. Shaking - Linear shaking with four modes. 405 nm - PNPP ELISA substrate. 450 nm - TMB ELISA substrate 492 nm - OPD ELISA substrate. 620 nm - ELISA reference filter Wavelength range 400 - 750 nm. Measurement range 0 - 4 OD. Resolution 0.0001 OD. Washer: Residual Volume < 1 µl, Wash Volume 10 - 3,000 µl, Wash Cycles Up to 99, Soak Time 0 - 24 hours, Shake Time 0 - 24 hours, Plate Types 96 well flat, round and v-bottom, Bottle Capacity 2 l, Supplied Bottles 3 x wash and 1 x rinse, Memory 100 user-defined wash protocols, 10 plate types, Display 5" LCD. Pure sine wave UPS backup for 2 hours with dry batteries. USA, Germany, Japan, UK, Australia or equivalent Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	EL x808 BioTek Instruments INC USA technically Disqualified Authorization letter not attached	Model A00TS Biotek INSTRUMENT S INC.USA Technically Qualified	Not Quoted	Not Quoted	Not Quoted	EZ Read 400, Biochrom England Technically qualified	Not Quoted	MARTREADER96 , ACCuris instruments, USA Technically Disqualified; Authorization letter not attached
44 Laminar Flow hood: 5 ft, HEPA filter, UV light, Horizontal/ Vertical. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	LHS-58 5170585 ESCO Singapore technically Disqualified Authorization letter not attached	Model HC-V150 TopAir Systems Inc USA Technically Disqualified .Authorization letter not attached	Not Quoted	Not Quoted	Not Quoted	Technically disqualified; Specifications like height 5 ft, demanded: 40cm quoted.UV light not quoted	Model LN 090 NUVE Turkey Technically Qualified	RTVL1312, Robus Technology Ltd, UAE. Technically disqualified, direct authorization letter is not attached. Disobey condition 5 of tender document

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45 Liquid Nitrogen cylinder: Tank Capacity: 3000lits. with liquid electronic display. size.80Cuft. USA, Japan, Germany, UK or equivalent	1	Not Quoted	Not Quoted	Not Quoted	Not Quoted	Model.STC-3A Stalwart USA Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Not Quoted
46 Microtome Machine: Nominal supply voltage: 100 – 240 V AC +/- 10%; Nominal frequency: 50 / 60 Hz ; Power draw: 20 VA (CUT 5062). Protective class: (1) I ; Power fuses: 2x T 1,6 A ; Pollution degree (1) 2; Maximum heat emission: 20 J/s (CUT 5062); Operating temperature range: +10 °C to +35 °C ; Temperature range during storage: +5 °C to +55 °C ; Relative humidity: max. 80% non condensing ; Humidity during storage: < 8% ; Section thickness setting range: 0.5 – 100 µm ; Section thickness selection: 0 - 2 µm in 0.5-µm steps, 2 - 20 µm in 1-µm steps, 20 - 50 µm in 2-µm steps, 50 – 100 µm in 5-µm steps;Trimming thickness: 0 – 300 µm .Specimen feed: 28 mm (step motor) ; Specimen feed speed SLOW: 75 / 150 / 300 / 600 µm/s ; Specimen feed speed: 3000 µm/s ; Specimen feed memory: 2 positions programmable ; Vertical specimen stroke: 60 mm ; Maximum specimen size: 50 x 50 mm ; Knife holder - north-south axis: 24 mm ; Specimen retraction: 0 - 200 µm, selectable; Specimen orientation, horizontal: 8° Specimen orientation, vertical: 8° ; Specimen orientation, z-axis: 360°; Dimensions [W x D x H]: 480 mm x 610 mm x 350 mm. Weight: 33 kg ; Standard Accessories: Blade holder, base assembly, 3-component-blade holder applicable for low and high profile. disposable blades, High-Profile Back-Plate, Universal-Cassette-Clamp , orientable 10 pkt of 50 disposable blades. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	Not Quoted	Model CUT-5062 SLEE MEDICAL GmbH GERMANY Technically Qualified	Not Quoted	Not Quoted	MR2258 HISTO LINE Italy Technically Dis Qualified NO Direct authorization letter attached .disobey condition 5 of tender document	Technically disqualified, section thickness range 0 - 2 µm in 0.5-µm steps demanded: 1-60µm quoted. 10 pkt of 50 disposable blades not quoted	Not Quoted	m240 myr spain Technically Qualified
47 Protein-Nitrogen Distiller : Performance Measurement range: de 0,1 a 200 mg de N; Nitrogen recovery: 99,5 %; Reproducibility: ± 1 %; Distillation time: 4 minutes for 100 mL; Cooling water consume: 1,2 L/min.; Electric power: 2000 W (100%). Number of Programs: 20 user programs; Programmable parameters and values ; Water for dilution: 0-200 mL;NaOH solution: 0-200 mL;H3BO3 solution: 0-200 mL;Reaction time (delay): 0-30 minutes;Distillation time: 0-30 minutes or indefinite;Steam power regulation: 30-100%; Supplied with the following Accessories: 2 containers of 10 litres for H2O, NaOH and 1 container of 5 litres for H3BO3; water Container: 10L;NaOH Container: 10L;H3BO3: 5L;H x W x D mm: 740 x 380 x 340; Power W: 2000. USA, Japan, Germany, UK or equivalent.	2	Not Quoted	ADU-400 VEGER SOLVENIA EUROPE Technically Qualified	Model:DNP-2000 MP RAYPA SAPIN Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Model UDK 129 VELP ITALY Technically Qualified	Not Quoted	52 Behr -labour germany Technically Qualified

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48 Sonicator: Time unit H62-920, normal operating frequency 23 KHz., titanium prob end diameter 19 mm. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	Technically Disqualified Specifications like Time unit H62-920, normal operating frequency 23 KHz. are not according to demand and authorization letter is not attached.	Model: VCX 130-220 SONICS AND MATERIALS, INC USA Technically Disqualified. Authorization letter not attached	Not Quoted	Not Quoted	Not Quoted	Model VCX 500 SONICS USA Technically Qualified	Not Quoted	vex 500 sonics USA Technically Qualified
49 System for Karyotyping and FISH: Microscope with attached camera, LCD monitor, Karyotyping and FISH software licence, Filter blocks and system compatible computers. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	Not Quoted	MATASYSTE M GmbH Germany Technically Qualified	Not Quoted	Not Quoted	Not Quoted	BX43LED, Olympus, Japan, Technically qualified	Not Quoted	Not Quoted
50 Spectrophotometer UV Visible: Monochromator, 190-900nm, spectra bandpass 0.1, 0.5, 1, 2, 4 & 5nm (6 steps), stray light 0.0025%, wavelength accuracy +0.1nm, wavelength setting repeatability +0.05nm, photometric mode Abs, %T, %R, E(S), E(R), photometric range Abs +5.5 & 0 to 300%T, photometric accuracy. +0.002Abs (0 to 0.5Abs), +0.003 Abs (0.5 to 1.0Abs), +0.006Abs (1 to 2Abs), +0.3%T, photometric repeatability +0.001Abs (0 to 0.5Abs), +0.0015 Abs (0.5 to 1.0Abs), +0.003Abs (1 to 2Abs), +0.1%T, baseline flatness +0.0004 Abs, baseline stability within 0.0002 Abs/Hr, wavelength scan speed 1.5, 3, 15, 30, 60, 120, 300, 600, 1200, 2400nm/min, light source adjustment free D2, adjustment free tungsten iodine, photomultiplier, double beam, LCD display. USA, Germany, UK, Japan or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	T80+ PG Instrument UK Technically Disqualified Indirect authorization letter attached. disobey condition 5 of tender document	Model E-1000UV PEAK Instruments Inc.USA Technically Qualified	Not Quoted	Not Quoted	UVS-2800 LABOMED INC USA Technically Disqualified indirect authorization letter attached. disobey condition 5 of tender document	Technically disqualified; Specifications like spectra bandpass 0.1, 0.5, 1, 2, 4 & 5nm (6 steps) demanded: 0.1, 1, 2, 4 nm quoted	Not Quoted	UH5322 HITACHI JAPAN Technically Disqualified indirect authorization letter attached. disobey condition 5 of tender document
51 CO2 incubator: Microprocessor controlled with LED/ CO2 level. Direct heat/ water Jacketed temperature controlled system. Integrated sterilization cycle at +160, temp range: +20-+45, Uniformity ±0.2°C at 37°C, accuracy ±0.1°C. CO2 Range: 0-20%, Capacity: 150 L, plus CO2 gas cylinder. USA, Japan, Germany, UK or equivalent. Authorization letter required from direct manufacturer/Principal.	1	Not Quoted	4002628 JP-SELECTA SPAIN Technically disqualified indirect authorization letter attached. disobey condition 5 of tender document	Model CB 170 BINDER GmbH Germany Technically Qualified	Model MCO-170AC-PE PHCbi Japan Technically Qualified	Not Quoted	Not Quoted	Not Quoted	Model.EC160 NUVE Turkey Technically Qualified	ZOCR-11502 LAB WIT AUSTRALIA Technically Qualified

Technical Evaluation and Inspection Committee for Zoology Lab Items:

Sr#	Item Description (Zoology Lab Equipment)	Qty	Gharsa Laboratory Supplies	Wahid Scientific Store	Scientific Technical Corporation	Key Scientific Corporation	New Chemical Centre	Hale marketing International	Rays Technologies	AGBL	SU Interprises
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Secretary

Member

Convener

JW
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 duly metted
 and verified