

#### **Tender Document**

Supply of Lab Equipment (Chemistry, Zoology, Botany, Environmental Science & Archeology)

University of Baltistan, Skardu Kargil Road, Hussainabad Skardu Phone No. 05181-990069-70

#### **INVITATION TO BID**

No. UOBS-TO-0524/01

May 22, 2024

University of Baltistan Skardu (UoBS) invites sealed tenders from original manufacturer, authorized dealers and registered firms (Sale tax/ income tax) for following item in accordance with PPRA Rules-2004, under "Single Stage-Two Envelopes procedure":

S.No	Description	Tender Cost	Earnest Money
Lot-A	Lab Equipment (Chemistry, Zoology, Botany Environmental Science, Archeology)	Rs. 56 (Million)	5% of the bid value in shape of pay order/demand draft in favor of Treasurer, UOBS.

- The detailed specification of items along-with terms & conditions are mentioned in the tender
  - document which can be downloaded from the university's website **www.uobs.edu.pk** or PPRA website.
- The bidders must submit Pay order CDR or bank draft amounting to Rs.5000 (Non-refundable) drawn in the favour of Treasurer, University of Baltistan Skardu as tender document fee.
- The tender documents can be submitted with 5% of the bid value as earnest money including taxes in shape of pay order/demand draft in favor of Treasurer, UOBS latest by 11:00 am on 10-06-2024. The tenders will be opened at 11:30 am on the same day in the presence of the bidders or their representatives at the office of Treasurer, University of Baltistan Hussainabad Kargil Road, Skardu. UOBS reserves the right to reject all or any bid in accordance with PRA Rule.

Assistant Treasurer Procurement Ghulam.nabi@uobs.edu.pk University of Baltistan, Skardu Phone: 05815-990069

#### Section-II Instructions to Bidder:

Bidders are advised to read the contents of the Instruction to Bidders (ITB) carefully

#### 1. Scope of Bid

University of Baltistan invites sealed bids for supply of Lab Equipment (Chemistry, Zoology, Botany, Environmental Science, Archeology).

#### 2. Source of funds

a) Public Fund

## 3. Eligible Bidder

- a) This Invitation for Bids is open to all original manufacturers/ their authorized agents in case of imported goods their authorized agents/ importers/ suppliers in Pakistan for supply of Goods who must be registered (NTN, GST, on Active Tax Payers List of FBR etc.).
- b) Bidders under a declaration of ineligibility for corrupt and fraudulent practices issued by any Government (Federal, Provincial or Local) or a public sector organization are NOT ELIGIBLE. Bidders blacklisted by any Government (Federal, Provincial or Local) or a public sector organization are also NOT ELIGIBLE.

#### 4. Corruption and Fraud

- a) The Government of Pakistan defines Corrupt and Fraudulent Practices as "corrupt and fraudulent practices" which includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty".
- b) Indulgence in corrupt and fraudulent practices is liable to result in rejection of bids, cancellation of contracts, debarring and blacklisting of the bidder, for a stated or indefinite period of time.

#### 5. Eligible Goods and Services

a) All goods and related services to be supplied under the contract shall conform to the policies of the Government of Pakistan in vogue. All expenditures made under the contract shall be limited to such goods and services. b) For purposes of this clause, (a) the term "Goods" includes any goods that are the subject of this Invitation for Bids and (b) the term "Services" includes related ancillary services such as transportation, insurance, installation, after sale service /support and trainings etc.

#### 6. Cost of Bidding

a) The Bidder shall bear all the costs associated with the preparation and submission of its bid, and the Procuring Agency shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

## **The Bidding Procedure**

#### 7. Applicable Bidding Procedure

- a) The bidding procedure is governed by Public Procurement Rule 36 "Procedures of Open Competitive Bidding" sub-rule (a) "Single stage Two Envelop procedure".
- b) The bidding procedure prescribed in the Invitation for Bids is explained herein below:

#### Single Stage: Two Envelope Procedure

- (i) The bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the financial proposal and the technical proposal;
- (ii) The envelopes shall be marked as "FINANCIAL PROPOSAL" and "TECHNICAL PROPOSAL" in bold and legible letters to avoid confusion;
- (iii) Initially, only the envelope marked "TECHNICAL PROPOSAL" shall be opened;
- (iv) The envelope marked as "FINANCIAL PROPOSAL" shall be retained in the custody of the procuring agency without being opened;
- (v) The procuring agency shall evaluate the technical proposal in a manner prescribed in advance, without reference to the price and reject any proposal which does not conform to the specified requirements;
- (vi) During the technical evaluation no amendments in the technical proposal shall be permitted;
- (vii) The financial proposals of bids shall be opened publicly at a time, date and venue announced and communicated to the bidders in advance:

- (viii) After the evaluation and approval of the technical proposal the procuring agency, shall at a time within the bid validity period, publicly open the financial proposals of the technically accepted bids only. The financial proposal of bids found technically nonresponsive shall be returned un-opened to the respective bidders; and
- (ix) The bid found to be the \*most advantageous bid shall be accepted.

## **The Bidding Documents**

## 8. Contents of the Bidding Documents

- a) The goods required, applicable bidding procedures, and Contract Terms are prescribed in this Bidding Documents. In addition to the Invitation for Bids, this Bidding Documents include:
  - Instructions to Bidders (ITB)
  - Schedule of Requirements
  - Technical Specifications
  - Evaluation Criteria
  - Bid Forms
  - Draft Standard Contract including Special Conditions of Contract (with Annexures) and General Conditions of the Contract.
- b) The "Invitation for Bids" (IFB) Notice is not a formal part of the Bidding Documents and is included as a reference only.
- c) The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or to submit a bid not substantially responsive to the Bidding Documents in every respect shall be at the Bidder's risk and may result in the rejection of its bid.

#### 9. Clarification(s) on Bidding Documents.

A prospective Bidder requiring any clarification(s) on the Bidding Documents may notify the Procuring Agency in writing at the Procuring Agency's address indicated in the Invitation for Bids. The Procuring Agency shall respond in writing to any request for clarification(s) of the bidding documents, which it receives not later than ten (10) days prior to the deadline for the submission of bids prescribed in the Invitation for Bids. Written copies of the Procuring Agency's response (including

an explanation of the query but without identifying the source of inquiry) shall be sent to all prospective Bidders that have received the Bidding Documents.

## 10. Amendment(s) to the Bidding Documents.

- a) At any time prior to the deadline for submission of bids, the Procuring Agency, for any reason, whether at its own initiative or in response to a clarification(s) requested by a prospective Bidder, may modify the Bidding Documents by amendment(s).
- b) All prospective Bidders that have received the Bidding Documents shall be notified of the amendment(s) in writing through Post, e-mail or fax, and shall be binding on them.
- c) In order to allow prospective Bidders reasonable time for taking the amendment(s) into account in preparing their bids, the Procuring Agency, at its discretion, may extend the deadline for the submission of bids.

## **Preparation of Bids**

## 11. Documents comprising the Bids.

- a. The Bid shall comprise the Bid Forms of this Bidding Document and all those ancillary documentations that are prescribed for the eligibility of the bidders and goods and ancillary services that are found necessary and highlighted in the Bid Forms.
- b. The Bidder shall complete the Bid Forms and an appropriate Price Schedule furnished in the bidding documents, indicating the goods to be supplied, a brief description of the goods, their general and specific characteristics, ancillary services that the bidder is willing or required to provide along with the proposed price.

#### 12. Bid Price

- a) The Bidder shall indicate on the appropriate form prescribed in this Bidding Document the unit prices and total bid price of the goods, he proposes to supply under the Contract.
- b) Form prescribed for quoting of prices, should be typed and printed on the bidder's letterhead. Any alteration/correction must be initialed. Every page of the bid is to be signed and stamped at the bottom.
- c) The Bidder should quote the prices of goods according to the technical specifications as provided in this document. The technical specifications of goods, different from the required specifications, shall straightway be rejected.
- d) The Bidder is required to offer a competitive price. All prices must include all the taxes and duties, where applicable. If there is no mention of taxes, the offered/ quoted price shall be considered as inclusive of all prevailing taxes/ duties. The bidder shall be responsible for all new taxes, if any, levied by the Government until completion of the contract.

- e) The benefit of exemption from or reduction in the taxes and duties shall be passed on to the Procuring Agency.
- f) Prices offered should be for the entire quantity of an item demanded in the Schedule of Requirement; partial quantity offers shall straightaway be rejected. Conditional offer shall also be considered as non-responsive Bid.
- g) While making a price quote, trend/ inflation in the rate of goods and services in the market should be kept in mind. No request for increase in price due to market fluctuation in the cost of goods and services shall be entertained.

#### 13. Bid Currencies

a) Prices shall be quoted in Pak Rupees.

#### 14. Supporting Documents to judge specification

a) The bidder shall provide the leaflets/brochures/catalogs of quoted products with the bid.

## 15. Documentation on Eligibility of Bidders

- a) Bidder shall furnish, as part of its bid (along with Bid Form & Price Schedule) the documentary evidence mentioned in the eligibility criteria for the Bidder's eligibility and its qualifications to perform the Contract if his bid is accepted: -
  - Minimum three (05) years of experience in supplying of quoted items,
  - Duly authorized by the Manufacturer/ Principal of Leading Brands.
  - Registered with Income & Sales Tax Departments and on the Active Tax Payers List of FBR (where applicable).
  - Affidavit duly attested by the Oath Commissioner/ Notary Public to the effect that the respective bidder is not black listed by any Government (Federal, Provincial or Local) or a public sector organization.
  - Manufacturer's warranty (One year).
  - Bank statements of last of six months.
  - In case of JVs proper

Details are covered in the **Section IV** containing Eligibility criteria.

## 16. Bid Security

a) Bidder shall furnish, as part of its bid, a Bid Security @ 5% of the total Quoted Bid Value in Pak Rupees. in the shape of pay order/demand draft/ call deposit in the name of University of Baltistan, Skardu. Unsuccessful bidder's Bid Security shall be discharged or returned soon after announcement of the successful bids.

- b) The successful Bidder's Bid Security shall be discharged upon signing of contract, successful delivery of goods, furnishing of the performance/bank guarantee and confirmation of the performance/bank guarantee by University of Baltistan, Skardu with the Bank of the successful bidder.
- c) The bid Security may be forfeited:

if a Bidder withdraws its bid during the period of bid validity;

Or

In the case of a successful Bidder, if the Bidder fails to sign the Contract or fails to provide a performance security.

D). Attached Original CDR with technical documents.

#### 17. Bid Validity

- a) Bids shall remain valid for 90 days after the date of opening of bid prescribed by the Procuring Agency. A bid having validity for a shorter period shall be rejected by the Procuring Agency as non-responsive.
- b) The Procuring Agency shall ordinarily be under an obligation to process and evaluate the bid within the stipulated bid validity period. However, under exceptional circumstances and for reason to be recorded in writing, if an extension is considered necessary, all those who have submitted their bids shall be asked to extend their respective bid validity period. Such extension shall be for not more than the period equal to the period of the original bid validity.
- c) Bidders who;
  - I. agree to the Procuring Agency's request for extension of bid validity period shall not be permitted to change the substance of their bids; and
  - II. Do not agree to an extension of the bid validity period shall be allowed to withdraw their bids without forfeiture of their bid securities.

#### **Submission of Bids**

## 18. Sealing and Marking of Bids

- a) The envelopes shall be marked in bold and legible letters to avoid confusion.
- b) The inner and outer envelope shall:
  - I. be addressed to the Procuring Agency at the address given in the Invitation for Bids; and
  - II. Bid Reference No. indicated in the Invitation for Bids, and a statement: "DO NOT OPEN BEFORE," the time and the date specified in the Invitation for Bids for opening of Bids.

c) The bids must be delivered by hand or by courier so as to reach the office of Assistant Treasure (P), University of Baltistan, Skardu on the date and time prefixed in the Invitation for Bids (IFB). Bids submitted through telegraph, telex, fax or email shall not be entertained.

#### 19. Deadline for Submission of Bids

- a. Date. Time and Venue mention in the Invitation to Bid.
- b. The Procuring Agency may, in its discretion, extend the prescribed deadline for the submission of bids by amending the bidding documents in accordance with ITB in which case all rights and obligations of the Procuring Agency and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

#### 20. Late Bids

Any bid received by the Procuring Agency after the deadline for submission of bids prescribed by the Procuring Agency pursuant shall be rejected and returned unopened to the Bidder.

#### 21. Withdrawal of Bids

- a) The Bidder may withdraw its bid after the bid's submission and prior to the deadline/closing time & date prescribed for submission of bids.
- b) No bid may be withdrawn in the period between deadline for submission of bids and the expiration of the period of bid validity. Withdrawal of a bid during this period may result in forfeiture of the Bid Security submitted by the Bidder.

## 22. Opening & Evaluation of Bid.

- a) The bids received shall be opened by the Procuring Agency publically in the presence of the Bidders or their representatives who may choose to be present University of Baltistan, Skardu.
- b) All Bidders in attendance shall sign an attendance sheet.
- c) Prior to the detailed evaluation, the Procuring Agency shall determine the substantial responsiveness of bid to the bidding documents. For purposes of this clause, a substantially responsive bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from, or objections or reservations to critical provisions, such as those concerning Applicable Laws, delivery schedule, taxes & duties etc. shall be deemed to be a material deviation. The Procuring Agency's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.
- d) The Procuring Agency shall open one Bid at a time and read out aloud its contents which may include name of the Bidder, items bided for and unit prices and total

amount of the Bid. The Procuring Agency may choose to announce any other details which it deems appropriate if not in conflict with the Public Procurement Rules-2004, specifically Rule 28 (Opening of Bids).

- e) In the Financial Bids the arithmetical errors shall be rectified on the following basis:
  - If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected.
  - If the Bidder does not accept the correction of the errors, its bid shall be rejected, and its Bid Security may be forfeited.
  - If there is a discrepancy between words and figures, the amount in words shall prevail.

#### 23. Rejection of Bids

- a) The Procuring Agency may reject any or all bids at any time prior to the acceptance of a bid under Public Procurement Rules (PPR) 2004. The Procuring Agency may upon request communicate to any Bidder who submitted a bid, the grounds for its rejection of any or all bids, but is not required to justify those grounds.
- b) Conditional or incomplete bid/bids shall be rejected.
- c) The bid/bids received with over-writing, cutting and doubtful figure shall be rejected.
- d) The Procuring Agency incurs no liability, solely by virtue of its invoking Rule 33.1 of PPR 2004, towards Bidders who have submitted bids.
- e) Notice of the rejection of any or all bids shall be given promptly to the concerned Bidders that submitted bids.

#### 24. Re-Bidding

- a) If the Procuring Agency rejected all bids, it may call for a re-bidding.
- b) The Procuring Agency before invitation for re-bidding shall assess the reasons for rejection and may revise specifications, evaluation criteria or any other condition for Bidders, as it may deem necessary.

#### 25. Announcement of Evaluation Report

Announcement of Evaluation Report will be as per PPR, 2004.

## 26. Contacting the Procuring Agency

a) No Bidder shall contact the Procuring Agency on any matter relating to its bid, from the time of the bid opening to the time of announcement of Evaluation Report. If a

- Bidder wishes to bring additional information to the notice of the Procuring Agency, it should do so in writing.
- b) Any effort by a Bidder to influence the Procuring Agency in its decisions on bid evaluation, bid comparison, or Contract award may result in the rejection of the Bidder's bid. Canvassing by any Bidder at any stage of the bid evaluation is strictly prohibited. Any infringement shall lead to disqualification.

#### **Award of Contract**

## 27. Acceptance of Bid and Award Criteria

a. The Bidder whose bid is found to be most closely conforming to the Evaluation Criteria prescribed and having the Most advantageous bid, if not in conflict with any other law, rules, regulations or policy of the Government of Pakistan, shall be awarded the Contract, within the original or extended period of bid validity.

## 28. Procuring Agency's Right to vary quantities at the time of Award

a. The Procuring Agency reserves the right at/after the time of award of Contract to increase or decrease, the quantity of goods up to 15% as originally specified in the Schedule of Requirements without any change in unit price or other terms and conditions.

#### 29. Notification of Award

- a) Prior to the expiration of the period of bid validity, the Procuring Agency shall notify to the successful Bidder in writing that his bid has been accepted.
- b) The notification of award shall constitute the formation of the Contract between the Procuring Agency and the successful Bidder.
- c) The enforcement of the Contract shall be governed by Rule 44 of the PPR-2004.

#### **SECTION III**

# SCHEDULE OF REQUIREMENTS & TECHNICAL SPECIFICATIONS

#### **Schedule of Requirements:**

The **Lab Equipment** (Chemistry, Zoology, Botany Environmental Science, Archeology) shall be delivered and installed in accordance with the following schedule of requirements: -

_	monto.		
	S. No	Milestone	Time Period
	1 (a)	Supply of Lab Equipment (Chemistry, Zoology, Botany Environmental Science, Archeology)	Within two weeks from date of issuance of Supply order

**Penalties for Late deliveries of supplies:** The supplies shall be delivered in accordance with the Supply Orders to be issued by University of Baltistan, Skardu. In case of late deliveries, penalties at the following rates will be applied:

Mode of Penalty	100% Quantity as per Purchase Order	Total delivery period
Without penalty		14 days
With penalty @ 1% per day after 07 days of issuance of Supply Order upto maximum of 10% of the total contract value	10 days	14 days

## **Technical & Financial Bid Specifications**

Specifications of Lab Equipment (Chemistry, Zoology, Botany, Environmental Science & Archeology)

S.N o	Name of Items	Specifications	Qty	Unit Rate;(Unit Price (Inclusive of all applicable taxes)	Total Cost. (Total Cost Inclusive of all applicable taxes)
1	Deep	External Size(W*D*H) mm 505*520*1165	1	•	
	freezer	Internal Size(W'D·H)mmn 266*261*400			
		Capacity 28L			
		Type Vertical			
		Temp.Rang -40°C~-86°C			
		Temp.Accuracy 0.1°C			
		Control System Microprocessor control,LED Digital Display Alarm Method Sound beeps and lights flash			
		Refrigeration type R404A and R23			
		Construction Foam Layer Thickness			
		100mm			
		Internal Material 304 stainless steel			
		External Material Sprayed steel plate			
		Chamber with Inner Door 1			
		Shelf 1pc			
		Consumption 390w			
		Power Supply AC110V/220V±10%,50/60Hz			
		Package size (W*D*H) mm 580*600*1325			
		Gross Weight 85kg			
		Made: Turkey,EU,USA,German,Japan or Equivlent			
2	Deioniz er	Water Inlet Tap water: TDS<200 ppm (Extra pretreatment filter is recommended, if TDS>200 ppm)	1		
		Temperature 5-45°C			

		Pressure 1.0-4.0 Kgf/cm <sup>2</sup>		
		Flow Procedure** PF+AC+RO+DI+UV+TF		
		Ion rejection rate 96%-99% (New RO membrane)		
		Organic rejection rate >99%,when MW>200 Dalton		
		Particles and bacteria rejection rate >99%		
		Bacteria <0.1 cfu/ml		
		Output(25°C)**** 30 L/hrs		
		Pure water outlet RO and deionized water		
		Water Quality Monitor Portable TDS/conductivity test pen + on-line resistivity monitor		
		Dimension LxWxH 410x220x420 mm		
		Weight 20 kg		
		Standard configuration Main body (Including 1 set of cartridges)+15 liters tank+ TDS pen +accessory bag		
		Power Consumption (W) 72 W		
		Made: Turkey,EU,USA,German,Japan or		
		Equivlent Power Supply AC110-220 V, 50/60 Hz		
3	PH	Meter Type Benchtop	3	
3	meter	Display type Backlit custom LCD	3	
		Connections BNC		
		Min pH (pH)-2		
		Max pH (pH)19.999		
		pH Resolution 0.001, 0.01, 0.1		
		pH Accuracy ±0.003		
		Buffer Recognition DIN, NIST, JIS, and		
		custom		
		Calibration User selectable 1, 2 or 3 point		
		Min mV (mV) - 1999.9		
		Max mV (mV )1999.9		
		mV Resolution 0.1, 1		
		mV Accuracy ±0.2		
		Min Temperature (° C)-10		
		Max Temperature (° C)105		
		Temperature Resolution 1°F (0.1°C)		

		Temperature Accuracy ±1°F (±0.5°C) Temperature compensation Automatic or manual from 32 to 212°F (0 to 100°C)  Memory Size 32 Power (VAC) 230 Length cm 25 Width cm 21 Height cm 5.5 Width (in) 8 ¼ Length (in) 9 7/8 Height (in) 2 3/16 Probe Included pH electrode and ATC probe Description Standard Digital pH Meter Kit; 230 Made: Turkey,EU,USA,German,Japan, UKor Equivlent		
4	Digital Balanc e (0.01- 1000gm )	Max capacity 2000g  Readability 0.01g  Repeatability 0.01g  Linearity ±0.03g  Pan size 128 x 128 mm  Working temperature +15° - +30°C  Power supply 230V / 11V AC or 120V / 11V AC, & 6 AA NiMH accumulator  IP rating IP 43  Display LCD (backlit)  Net / Gross weight 1.3/2kg  Packaging size 330×220×140mm  Made: Turkey,EU,USA,German,Japan, UKor Equivlent	2	
5	Fermen ter with culture vessel (6 lit) and	Liquid Loading Coefficient 65-80%, 70% is optimal  Dimension of Control Cabinet (L*W*H) 400*300*600mm  Weight of Control Cabinet 25kg  Stirring Speed 0-1000rpm (set arbitrarily)	1	

	digital	Internal Dimension of Tank(Φ*H) 160*300		
	display	Nominal Volume 5 L		
		Weight of Tank 17 kg		
		Gross Weight 60 kg		
		Control System: Industrial-grade control system using Siemens PLC controller, 64-bit true color touch screen operation interface, complete functions and stable operation.		
		Sterilization Method: Off-site or on-site sterilization		
		Structure : Desktop fermenter, compact structure ,easy to operate		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
6	Flaked	Ice Making Capacity(kg/24h) 100	1	
	Ice .	Ice Storage Capacity(kg) 40		
	maker	input Current(w) 520		
		Way of Condensation Air cooling		
		Ambient Temperature 10~35°C		
		Water Temperature 2~15°C		
		Tank Shell Stainless steel		
		Compressor Panasonic Wanbao		
		Refrigerant R290		
		Net Weight(kg) 58		
		Gross Weight(kg) 82		
		External Size(W"D*H)mm 500*611*940		
		Package Size(W'D*H)mm 720*620*1160		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
7	Liquid	Capacity- Liquid (Gross)- 50 Liters	1	
	N2 cylinde	Performance- NER per day- 8.0%		
	r	Dimensions-		
	•	Height- 40.5 in/ 1035.1 mm		
		Outside Diameter- 16 in/ 406 mm		
		Empty Weight- 98.5lb / 47.7kg		
		Full Weight- 188.5lb / 85.5kg		
		Primary Relief Valve Setting- 22 psig/ 1.52 barg		

		Made: Turkey,EU,USA,German,Japan or Equivlent		
8	UV	Outer dimension: 280 x 340 x 80mm	1	
	transill uminat	Viewing surface: 210 x 260mm	_	
		Wavelength: 302 & 365nm	_	
	or	Uv tubes: 11 x 8w		
		Pow Iter sizes 21 x 21cm, 21 x 26cm		
		Light source: 8w x 6 tubes		
		Uv resistant plastic cover: 33x25cm(wxd)		
		Unit dimensions (wxlxh) 34 x 29.5 x 10cmer: 100-240v, 50-60hz		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
9	Vortex	speed Fixed 2500 rpm	2	
	mixer			
		Orbit diameter 4.2 mm		
		Included 1 rubber cup & plastic adapter		
		Dimensions (w.v. dv. h) 425 v 245 v 70 mm	-	
		Dimensions (w x dx h) 135 x 215 x 78 mm	-	
		Net weight 3.2 kg	-	
		Electrical Supply 120-230 V, 50-60 Hz, 50 W	1	
		Made: Turkey, EU, USA, German, Japan or		
		Equivlent		
10	Microw	Type Grill	1	
	ave	Oven Capacity 31 L		
	oven	Power Source 240 V / 50 Hz		
		Power Supply Inverter		
		Power Microwave 1000 W		
		Grill Heater / Type 1100 W / Quartz x 2 pcs		
		Combination Yes (Simultaneous)		
		Door Side Open		
		Door Open Push	4	
		Control Panel Design Membrane		
		Control Panel Number Key 10-1 key	-	
		Display Type LCD ( 4 Digit + Icon )	-	
		Sensor Yes (Steam)		

		MW Power Level 6 (High1000W, Med-High800W, Med600W, Med-Low440W, Def300W, Low100W)  Grill Power Level3 (High, Med, Low)  Combination Level Combi1: Grill1+440W / Combi2:Grill1+300W / Combi3: Grill3+440W  Kitchen Timer Yes (99 min 50 min)  Standing Time Yes (99 min 50 min)  Delay Start Yes (99 min 50 min)  Clock 12 H  Stage Cooking 3 Stage  Outside Dimensions (H x W x D) 310 x 525 x		
		414 mm  Oven Dimensions (H x W x D) 247 x 359 x 362 mm		
		Net Weight 13.2 kg		
		Turbo Defrost Yes (0.1-3.0 kg)		
		Add Time Yes		
		Quick 30 Yes (up to 5 min)		
		Serving / Weight Yes		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
11	Paristali c pump	Speed: 1 to 300 rpm, reversible Speed resolution: 1 rpm Running direction: cw/ccw Display: 3-digit LED displays current speed	1	
		Made: Turkey,EU,USA,German,Japan or Equivlent		
12	Bumb Calorim eter digital	Main Testing Period takes maximum of 15-20 minutes / test. Oxygen Filling: Through a high pressure Schrader Valve Testing Temp. Range: Operating range from 5°C to 40°C Temperature Resolution: Temperature Scanning Resolution of 0.01°C, Made: Turkey,EU,USA,German,Japan or Equivlent	1	

13 Molecul ar Device Multi-Mode Spectro photom eter	Multi Mode Reader USA/EUROPE/JAPAN OR EQUIVELENT Multi mode reader with luminescence, top/bottom fluorescence, and UV-Vis absorbance General Detection Modes Fluorescence, time-resolved fluorescence (secondary mode), luminescence, UV-Visible absorbance, and Alpha Read Methods End point, kinetic, spectral scanning, well-area scanning Microplate Types 6- to 384-well plates Other Labware Supported PCR plates, Petri and cell culture dishes, microvolume plates Temperature Control 4-Zone Incubation to 50 °C; ± 0.2 °C at 37 °C Shaking Linear, orbital Automation Compatible with microplate stacker and third-party automation Absorbance Light Source Xenon flash lamp Detector Photodiode Wavelength Selection Monochromator Wavelength Range 200–999 nm, in 1 nm increments Monochromator Bandwidth 2.4 nm Dynamic Range 0–4.0 OD Resolution 0.0001 OD Pathlength Correction Yes Monochromator Wavelength Accuracy ± 2 nm Monochromator Wavelength Repeatability ± 0.2 nm OD Linearity < 1% from 0 to 3.0 OD OD Repeatability < 0.5% at 2.0 OD Fluorescence Intensity Sensitivity Top and bottom: Fluorescein 5 pM (1 fmol/well, 96-well plate) Light Source Tungsten halogen Xenon flash (option) Wavelength Range 300–700 nm (200–850 nm option) Dynamic Range > 6 decades	1			
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**Detector PMT** Luminescence Sensitivity 10 amol ATP (flash)—luminescence and absorbance/ luminescence configurations 30 amol ATP (flash)—multimode configurations Wavelength Range 300-700 nm Dynamic Range > 6 decades **Detection System Low-noise PMT** Alpha Detection Light Source Tungsten halogen Sensitivity 300 amol of biotinylated LCK-P peptide Read speed 2 minutes (96-well plate) Power 100-240 Volts AC. 50/60 Hz Dimensions 15" D x 16" W x 10" H (38 x 40.6 x 25.4 cm) Connectivity 1 USB, 1 RS232 for external PC control With Data Analysis Software for microplate readers provides an intuitive interface for both new and experienced users. It provides full control of multimode and absorbance readers for plate reading in a broad range of microplates, for both end-point and kinetic assays. Reading parameters, plate layout, and data analysis definition is an easy, step-by-step process for quantitative and qualitative assays. Well data and analysis results can be exported automatically or fully customized to suit data-reporting requirements. Set up assay, analyze results, and export data in minutes With Gen6, users can set up their plate, read, and analyze results in minutes. Prebuilt experiment templates Prebuilt experiment templates allow new users to quickly and easily get started with common assays and applications with software. Advanced read functionality—multimode kinetics software contains advanced functionality for

		kinetic assays. Users can easily set up time- course experiments and visualize data in real time as the microplate reader collects it. Raw and calculated data can easily be exported with one click into Microsoft Excel. Advanced read functionality—area scans Advanced reading modes, such as area scans, allow users to measure discrete points across a well for heterogeneous samples. Automated data optimization tools The built-in data optimization tools in software make it simple to ensure the data you are gathering is being optimally acquired. Functions such as the fluorescence spectrum viewer and probe Z-height optimization provide users with certainty that they are getting the best sensitivity for their assays. Advanced graphing options Built-in graphing functionality enables a range of data analyses, including standard curve generation, doseresponse curves, parallel line analysis.		
14	Abbe Refrecto meter	For temperature controlled measurement of active index & Brix in Solid /Liquid (Lasany International LI-R501 Digital Abbe Refractometer or equvalent)  Made: Turkey,EU,USA,German,Japan or Equivlent	1	
15	Centrifu ge matchin e with centrifu ge tube	Microcentrifuge (ventilated model), with speeds up to 15,800 rpm(23444×g)  Made: Turkey,EU,USA,German,Japan or Equivlent	1	

16	Conduct ivity meter Digital	Measurement Resolution Range -2.00 – 20.00mS/cm  Made: Turkey,EU,USA,German,Japan or Equivlent	2	
17	Rotary shakar	Size of platform  (a) 30 x 30 cm  (b) 45 x 45 cm  (c) 65 x 65 cm  16 flasks of 250 ml  (d) 45 x 45 cm  16 flasks of 250 ml  (e) 65 x 65 cm  16 flasks of 250 ml  (flasks of 250 ml  (graph of 250 ml)  (h) 45 x 45 cm  16 flasks of 250 ml  (graph of 250 ml)  (grap	1	
18	Analtical Balance Digital	Readability with 0.0001 gm and weighing range of up to gm Made: Turkey,EU,USA,German,Japan or Equivlent	2	
19	Chiller	Complete intrageted system for all distillation applications.Made: Turkey,EU,USA,German,Japan or Equivlent	1	
20	Steam distilatio n Solvent + Water	Solvent distilation assembly with the flask (Pyrix) at least 5 litter capacity Made: Turkey,EU,USA,German,Japan or Equivlent	1+1	
21	Desicca tor	1. 3.3 Borosilicate Glass 2. Steam Sterilization at 121° C is recommended for .Made: Turkey,EU,USA,German,Japan or Equivlent autoclaving	1	
22	Filtratio n Assemb ly with vacuum Pump	Filtration assembly of s.s filter holder with filter support for 47 mm dia and borosilicate glass filtration flask, Capacity: 1 ltr vacuum pipe, oil free vacuum pump. 1. Oil free vacuum pump 25 litr, 2.ss holder 47 mm, 3 glass flask 1000m Made: Turkey,EU,USA,German,Japan or Equivlent	2	

23	Fume Hood	(Phenolic or equvalent quality) Internal Size More than 1200x700x2000mm External Size (More than 1200x500x2000mm Control System Microprocessor Controller Exhaust floor and water sink. Made: Turkey,EU,USA,German,Japan or Equivlent	2	
24	Hot Plate Digital with magneti c stirrer	Function Heating and Stirring Plate Construction Ceramic Plate Size 6 in x 6 in (160 mm x 160 mm) Temp. Range Ambient +5°C – 2800°C Control System: Both stiring and temperature must be show in figures on front screen.Made: Turkey,EU,USA,German,Japan or Equivlent	2	
25	Chemist ry Hot air oven large size	Capacity: 100 to 120 litter Temperature Range: Room temperature + 10°C to 250°C .Made: Turkey,EU,USA,German,Japan or Equivlent	2	
26	Refrigra tor	(Laboratory freezer -20oC storage with sensative chemicals, Extra Large, double door with glass shape doors (Dowlance or equvalent) Made: Turkey,EU,USA,German,Japan or Equivlent.	1	
27	Soxhlet Extracto r	A schematic representation of a Soxhlet extractor: Stirrer bar Still pot (the still pot should not be overfilled and the volume of solvent in the still pot should be 3 to 4 times the volume of the Soxhlet chamber) Distillation path Thimble Solid Siphon top Siphon exit Expansion adapter Condenser Cooling water out Cooling water inMade: Turkey,EU,USA,German,Japan or Equivlent	2	

28	Rotary Evopora tor	Rotation Speed :20-280 rpm Large 5L water-oil heating bath with heating temperature range of RT to 180°C. Evaporating flask with an ejector, convenient to remove. Available with timer function to precise control processing	1	
29	Lab Glass Washar	Medium Size atleast (18x24 inche). Analytical pure reprocessing and pure of lab glassware .Made: Turkey,EU,USA,German,Japan or Equivlent	2	
30	UV Lump	Spectronics ENF-280C Handheld UV Lamp 365nm/254nm 8W Tubes and Filter 120V.Made: Turkey,EU,USA,German,Japan or Equivlent	2	
31	Manual Polarim eter Machine POL-4	POL-4 Photometry range -180°~+180° Reading value of dial nonius 0.05° Zoom multiple of magnifier 4×Made: Turkey,EU,USA,German,Japan or Equivlent	1	
32	Water Testinf Kit :Wagtec h TM Potalab + PTW10 010 or Equival ent	Palintest Wagtech Potalab+ Advanced portable water quality laboratory PTW-10010  Brand: Palintest/Wagtech Product SKU: PTW-10010 Country: UK or Equivalent  Technical Specifications  2 Wagtech Incubators, Digital Arsenic Test System, Lumiso Expert, Turbimeter Plus, Micro 800 pH/Temperature Meter and Micro 800 Conductivity/TDS meter.  High capacity microbiological analysis  Dual incubators with independent temperature control for simultaneous determination of up to 40 samples for thermotolerant or faecal coliforms and total coliforms.	1	
		Advanced physico-chemical analysis		

		A combination of instruments and reagents allows users to analyse a wide range of physical and chemical parameters to ensure drinking water quality and assess risks against short-term and chronic health effects.		
		O and the late are a second		
		Complete data management		
		Download incubator data and add colony counts for a complete microbiological report. For full traceability of results transfer data from your Lumiso Expert via Palintest Connect.		
		Tests		
		Chemical tests for ammonia, arsenic, free chlorine, total chlorine, fluoride, nitrate and nitrite		
		<ul> <li>Physical tests for turbidity, pH, conductivity, TDS and temperature</li> </ul>		
		Microbiological tests for thermotolerant or faecal coliforms and total coliforms		
		The Wagtech water testing kit has been designed for long term water quality monitoring, water supply system networks & fixed laboratory system		
		Parameters		
		A. Microbiological Quality		
		Thermotolerant/ Fecal Coliform count (E. coli as indicator pathogen) & Total ColiformsMade:     Turkey,EU,USA,German,Japan or Equivlent		
33	Multipar ameter	Multiparameter Benchtop Meter for pH/Cond/Oxi inoLab® Multi 9630 IDS	1	
	probe	Wireless ready		
		Simultaneous measurement with three independent measuring channels		
		Fatigue proof reading on brilliant color display		
		Technical Specifications		

	Parameter pH, mV, ISE, saturation, salinity, concentration,			
	partial pressure, conductivity, spec. resistance, TDS, temperature			
	Universal measuring channels 3			
	Measuring range depends on the IDS sensor used			
	Display LCD color graphic			
	CMC/QSC Yes/Yes			
	Data memory manual 500/10000 automatic			
	Analog pH/ORP/ISE sensors ADA 94 pH/IDS DIN or ADA 94 pH/IDS BNC			
	Logger manual/timer-controlled			
	Interface USB A/Mini USB-B			
	Complete as above			
	With IDS sensors: digital IDS pH electrode SenTix® 940			
	with pH Range: 0.000 14.000 ± 0.004, Temperature 0-80°C			
	Calibration buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity			
	cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard,			
	Model inoLab® Multi 9630 WTW Made: Turkey,EU,USA,German,Japan or Equivlent			
Microsc	Binocular Microscope	1		
ope, binocula	Body: Aluminum die-cast metal frame, protective plastic covering			
r	Optical System: Infinity optical system			
	Illumination System: Built-in transmitted illumination system			
	LED power consumption: 0.5 W (nominal value)			
	Focusing: Stage height movement			
	Coarse movement stroke: 15 mm			
	Coarse adjustment limit stopper			
	Torque adjustment for coarse adjustment knob			
	Fine focus knob (minimum adjustment gradations: 2.5 µm)			
_	ope,	partial pressure, conductivity, spec. resistance, TDS, temperature  Universal measuring channels 3  Measuring range depends on the IDS sensor used  Display LCD color graphic  CMC/QSC Yes/Yes  Data memory manual 500/10000 automatic  Analog pH/ORP/ISE sensors ADA 94 pH/IDS DIN or ADA 94 pH/IDS BNC  Logger manual/timer-controlled  Interface USB A/Mini USB-B  Complete as above  With IDS sensors: digital IDS pH electrode SenTix® 940  with pH Range: 0.000 14.000 ± 0.004, Temperature 0-80°C  Calibration buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity  cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard, Model inoLab® Multi 9630 WTW Made: Turkey,EU,USA,German,Japan or Equivlent  Microsc ope, binocular  Microscope  Body: Aluminum die-cast metal frame, protective plastic covering  Optical System: Infinity optical system  Illumination system: Built-in transmitted illumination system  LED power consumption: 0.5 W (nominal value)  Focusing: Stage height movement  Coarse movement stroke: 15 mm  Coarse adjustment limit stopper  Torque adjustment limit stopper  Torque adjustment for coarse adjustment knob  Fine focus knob (minimum adjustment	partial pressure, conductivity, spec. resistance, TDS, temperature  Universal measuring channels 3  Measuring range depends on the IDS sensor used  Display LCD color graphic  CMC/QSC Yes/Yes  Data memory manual 500/10000 automatic  Analog pH/ORP/ISE sensors ADA 94 pH/IDS DIN or ADA 94 pH/IDS BNC  Logger manual/timer-controlled Interface USB A/Mini USB-B  Complete as above  With IDS sensors: digital IDS pH electrode SenTix® 940  with pH Range: 0.000 14.000 ± 0.004, Temperature 0-80°C  Calibration buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity  cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard, Model inoLab® Multi 9630 WTW Made: Turkey,EU,USA,German,Japan or Equivlent  Microsc ope, binocular  Microscope  Body: Aluminum die-cast metal frame, protective plastic covering  Optical System: Infinity optical system  Illumination System: Built-in transmitted illumination system  LED power consumption: 0.5 W (nominal value)  Focusing: Stage height movement Coarse movement stroke: 15 mm Coarse adjustment limit stopper Torque adjustment for coarse adjustment knob Fine focus knob (minimum adjustment	partial pressure, conductivity, spec. resistance, TDS, temperature  Universal measuring channels 3  Measuring range depends on the IDS sensor used  Display LCD color graphic  CMC/QSC Yes/Yes  Data memory manual 500/10000 automatic  Analog pH/ORP/ISE sensors ADA 94 pH/IDS DIN or ADA 94 pH/IDS BNC  Logger manual/timer-controlled  Interface USB A/Mini USB-B  Complete as above  With IDS sensors: digital IDS pH electrode SenTix® 940  with pH Range: 0.000 14.000 ± 0.004, Temperature 0-80°C  Calibration buffer 4, 7 and 10.01, 3 mol/l KCl, digital IDS conductivity  cell TetraCon® 925, 0.01 mol/l KCl, conductivity standard, Model inoLab® Multi 9630 WTW Made: Turkey,EU,USA,German,Japan or Equivlent  Microsc Ope, Binocular Microscope Body: Aluminum die-cast metal frame, protective plastic covering  Optical System: Built-in transmitted illumination system  LED power consumption: 0.5 W (nominal value)  Focusing: Stage height movement Coarse adjustment stroke: 15 mm Coarse adjustment for coarse adjustment knob Fine focus knob (minimum adjustment

		Revolving Nosepiece: Fixed quadruple nosepiece with inward tilt Stage: Wire movement mechanical fixed stage  Size (W × D): 174 mm × 89 mm  Traveling range (X × Y): 76 mm × 30 mm  Specimen holder *Specimen position scale  Observation Tube: Type: Binocular, anti-fungal  Eyepiece (Anti0Fungal): 10X Field Number 20  Tube Inclination: 30°  Light Path Selector: None  Interpupillary distance adjusting range: 48-75mm  Eye Point Adjustment: 370.0 – 432.9 mm  Condenser: Abbe condenser NA 1.25 with oil immersion  Built-in aperture iris diaphragm  Objectives: Plan Achromat, anti-fungal  4X NA 0.1 W.D. 27.8 mm  10X NA 0.25 W.D. 8.0 mm  40X NA 0.65 W.D. 0.6 mm  100XOil NA 1.25 W.D. 0.13 mm  Technical Specs:		
		CX23LEDRF Microscope frame for transmitted microscopy with LED illuminator, binocular tube, a pair of eyepiece 10X (F.N.20), quadruple revolving nosepiece, right-handle mechanical stage, abbe condenser and plan objectives (4X, 10X, 40X, 100X), including AC adapter, fixing belt for transportation		
		UYCP-12 Power Cord		
		(Manufactured in Olympus Factory in China)		
		Model: CX23LED (Binocular) Olympus Made: Turkey,EU,USA,German,Japan or Equivlent		
35	Incubat	Incubator Memmert Precision	1	
	or	Adaptive multifunctional Digital PID-		
		Microprocessor Controller with High-Definition TFT-Color		
		Display		

		Made: Turkey,EU,USA,German,Japan or Equivlent		
		Temperature range 10°C above ambient up to +80°C		
		Resolution of display for set point values 0.1°C		
		Double doors (interior glass, exterior stainless steel)		
		Adjustment of pre-heated fresh air admixture		
		by air flap control in 10% steps,		
		digital timer adjustable from 1 minute to 99 days, 23 hours		
		adjustable electronic over temperature monitor and mechanical		
		temperature limiter, protection class 1		
		Double Over Temperature Protection		
		Interior & Housing made of Stainless Steel		
		Set point WAIT function - the process time does not start		
		until the set temperature is reached		
		Programme Stored in Case of Power Failure		
		Operated on 220volts, IN Series		
		Capacity 32 Liter 400 x 320 x 250mm		
		With One stainless steel trays,		
		Model IN-30 or Equivlent		
		Memmert, Made in Germany.		
36	GPS	GPS hand held/Garmin-Etrex30 Made: Turkey,EU,USA,German,Japan or Equivlent	1	
37	UT351/ 352 Sound Level Meter or	Digital Sound Level Meter Audio Noise 30~130 Decibel Measure Device Data Loggingg LCD Backlight Overload Promp.Made: Turkey,EU,USA,German,Japan or Equivlent	1	
	Equivel ent			
38	Temtop	CO2	1	
	M2000 2nd	Sensor: Non-Dispersive Infrared(NDIR) CO2 sensor		

CO2	Measuring Range: 0-5000 ppm (Resolution 1
Monitor	ppm)
Portabl e Air	Accuracy: ±50 ppm + 5% reading
Quality	DMO 5
Sensor	PM2.5
of	Sensor: Laser PM Sensor
Carbon Dioxide	Measuring Range: 0-999 μg/m³ (Resolution 0.1 μg/m³)
PM2.5 PM10 Formal	Accuracy: ±10 μg/m³(0-100 μg/m³), ±10%(>100 μg/m³)
dehyde	PM10
	Sensor: Laser PM Sensor
	Measuring Range: 0-999 μg/m³ (Resolution 0.1 μg/m³)
	Accuracy: ±15 μg/m³(0-100 μg/m³), ±15%(>100 μg/m³)
	HCHO (formaldohydo)
	HCHO (formaldehyde)
	Measuring Range: 0-2 mg/m³ (Resolution 0.001 mg/m³)
	Accuracy: ±0.03 mg/m³(0-0.3 mg/m³), ±10%(>0.3 mg/m³)
	Temperature and Humidity
	Temperature range: 0-50 °C
	Humidity range: 0-90% RH
	Product Details
	Model: M2000 2nd Generation
	Warranty: 1 year
	Dimensions: 8.8 x 2.8 x 1.4in
	Battery Capacity: 3000mAH
	Battery Last: 6-8h with a full charge
	Input: DC 5V; 1A

		Operation Environment: 0-50°C (32-122°F), 0-90%RH  Made: Turkey,EU,USA,German,Japan or Equivlent			
39	testo 317-3 - CO Monitor	Measuring range: 0 to +1999 ppm  Accuracy: ±10 % (+30 to +1999 ppm)  ±3 ppm (0 to +29 ppm)  Resolution: 1 ppm  Operating temperature: -5 to +45 °C  Battery type: 2 AAA micro batteries  Battery life: 150 h (with beeper switched off)  Storage temperature: -20 to +45 °C-Made: Turkey,EU,USA,German,Japan or Equivlent	1		
40	HOBO Temper ature/R elative Humidit y/2 Externa I Channe I Data	Measurement Range Temperature: -20° to 70°C (-4° to 158°F) RH: 5% to 95% RH Analog channels: 0 to 2.5 Vdc (w/ CABLE-2.5-STEREO); 0 to 5 Vdc (w/ CABLE-ADAP5); 0 to 10 Vdc (w/ CABLE-ADAP10); 4-20 mA (w/ CABLE-4-20MA)  Accuracy Temperature: ±0.35°C from 0° to 50°C	1	1	
	Logger	(±0.63°F from 32° to 122°F)  RH: ±2.5% from 10% to 90% RH (typical), to a maximum of ±3.5%, see Plot B in manual  External input channel (see sensor manual): ± 2 mV ± 2.5% of absolute reading  Resolution  Temperature: 0.03°C at 25°C (0.05°F at 77°F), see Plot A in manual  RH: 0.05% RH  Sample rate: 1 second to 18 hours, user selectable  Drift  Temperature: 0.1°C/year (0.2°F/year)			

		RH: <1% per year typical; RH hysteresis 1%		
		Time accuracy: ± 1 minute per month at 25°C (77°F), see Plot C in manual		
		Response time in airflow of 1 m/s (2.2 mph)		
		Temperature: 6 minutes, typical to 90%		
		RH: 1 minute, typical to 90%		
		Operating temperature		
		Logging: -20° to 70°C (-4° to 158°F); 0 to 95% RH (non-condensing)		
		Launch/readout: 0° to 50°C (32° to 122°F), per USB specification		
		Battery life: 1 year typical use		
		Memory: 64K bytes (43,000 12-bit measurements)		
		Weight: 46 g (1.6 oz)		
		Dimensions: 58 x 74 x 22 mm (2.3 x 2.9 x 0.9 inches)		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
41	Aquacu	Sku: HI83303-01	1	
	Itue			
	Photom eter -	Light Source: 5 LEDs with 420 nm, 466 nm,		
	HI83303	525 nm, 575 nm, and 610 nm narrow band interference filters		
		Spectral bandwidth: 8 nm		
		Input Channels: 1 pH electrode input and 5 photometer wavelengths		
		pH Electrode: digital pH electrode (not included)		
		Logging Type: log on demand with user name and sample ID optional input		
		Logging Memory: 1000 readings		
		Connectivity: USB-A host for flash drive; micro-USB-B for power and computer connectivity		
		GLP: calibration data for connected pH electrode		
		Display: 128 x 64 pixel LCD with backlight		

		Battery Type / Life: 3.7 VDC Li-polymer rechargeable battery / >500 photometric measurements or 50 hours of continuous pH measurement		
		Power Supply: 5 VDC USB 2.0 power adapter with USB-A to micro-USB-B cable (included)	İ	
		Environment: 0 to 50.0 oC (32 to 122.0 oF); 0 to 95% RH, non-condensing		
		Dimensions: 206 x 177 x 97 mm (8.1 x 7.0 x 3.8")		
		Weight: 1.0 kg (2.2 lbs.)		
		Photometer/Colorimeter Light Detector: silicon photodetector		
		Cuvette Type: round, 24.6 mm		
		Number of Methods: 128 max.		
		Ordering Information: Supplied with sample cuvettes and caps (4 ea.), cloth for wiping cuvettes, USB to micro USB cable connector, power adapter and instruction manual.		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
		Warranty: 2 years		
42	High	Column Capacity 4	1	
	perform ance	Column ID Reader Option No		
	liquid	Depth \462 mm		
	chromat	Flow Range 1 – 50 mL/min		
	ograph	Injection Range 0.1 – 5000 μL		
	(HPLC)	Intelligent System Emulation Technology No		
		Line Voltage 100-240 VAC		
		Maximum Number of Fractions 215		
		Maximum Number of Solvents 2		
		Pump Type Binary		
		Special Features Delay Sensor		
		Automated Delay Volume Calibration		
		System Pressure Operating Range 20-420 bar		
		Width 941 mmMade: Turkey,EU,USA,German,Japan or Equivlent		
43		Depth Outside 69.1 cm	1	

		Capacity 50 L		l Í	
		Diameter Chamber 36.4 cm			
		Temperature 105°C to 135°C			
		Weight 62 kg			
		Wattage 3.8 w			
	A (l.	Width Exterior 45.5 cm			
	Autocla ve	For Use With Steam sterilization			
	VG	Height Exterior 89 cm			
		Temperature 221°F to 275°F			
		Height Chamber 48.2 cm			
		Operating Pressure 2.5 psi			
		Made: Turkey,EU,USA,German,Japan or Equivlent			
44	Thermo	Block formats 96-well 0.2	1		
	cycler	mL			
		Temperature optimization 3-zone Veri Flex Block on			
		96-well systems			
		User interface 8.0-inch			
		touch screen			
		Max sample throughput 96			
		reactions			
		Max block ramp rate			
		4.0°C/sec Made: Turkey,EU,USA,German,Japan or Equivlent			
45	Doon		1		
45	Deep freezer	External Size(W*D*H) mm 505*520*1165 Internal Size(W'D·H)mmn 266*261*400	ı		
		Capacity 28L			
		Type Vertical			
		Temp.Rang -40°C~-86°C Temp.Accuracy 0.1°C			
		Control System Microprocessor			
		control,LED Digital Display			
		Alarm Method Sound beeps and			
		lights flash			
		Refrigeration type R404A and R23			
		Construction Foam			
		Layer Thickness			

Í	I	I	]	1	į i
		100mm			
		Internal Material 304			
		stainless steel			
		External Material Sprayed			
		steel plate			
		Chamber with Inner Door 1			
		Shelf 1pc			
		Consumption 390w			
		Power Supply			
		AC110V/220V±10%,50/60Hz			
		Package size (W*D*H) mm 580*600*1325			
		Gross Weight 85kg-Made:			
		Turkey,EU,USA,German,Japan or Equivlent			
46	Hot	Work plate dimension 35mm (5 inch)	1		
	plate with	Work plate material stainless steel cover with			
	magneti	ceramic Davide as DO mater			
	c stirrer	Motor type Brushless DC motor			
		Motor input power 18W  Motor output power 10W			
		Power 530W			
		Heating output 500W			
		Voltage 100-120/200-240V			
		50/60Hz			
		Stirring positions 1			
		Max. stirring quantity [H2O] 20L			
		Max. magnetic bar[length] 80mm			
		Speed range 50-1500rpm,			
		resolution±1rpm Speed display Scale			
		Temperature display Scale			
		Heating temperature range Room Temp			
		340°C			
		Over temperature protection ±0.5°C			
		Temperature display accuracy IP42			
		Protection Class IP42			
		Dimension [WxDxH] 160×280×85mm			
		Weight 2.8kg			

47	Swedish increme nt borer	12 inch, 24 inch, 36 inch, Made: Turkey, EU, USA, German, Japan or Equivlent Lengths from 100 mm/4" up to 1000 mm/39". The hole of borer may be	3	
		4,3 mm/0.169", 5,15 mm/0.20", 10 mm/0.39" Length Borers are available from 100 mm or 4" up to 1000 mm or 39".		
		For optimal penetration depth, the borer bit should be approximately one half to three quarters of the tree's diameter.  Core Diameter		
		Standard core diameters are 4.3 mm or 5.15 mm (0.169" and 0.200").		
		10 and 12 mm diameter borers are available in assorted lengths and are mainly used for quantitative analyses where large samples are necessary.		
		Threading Borers are available as either 2 or 3-threaed borer bit. 2-threaded borers are recommended for hardwood. 3-threaded borers are the most		
		popular, since they will be easier to work with and engage faster in the wood.  Borer tip		
		The borer tip with thread has an unique convex arc-shape to easily penetrate and cut the tree fibre.		
		Coating The increment borer bits are treated and protected with PTFE-coating which reduces		
		friction and protects against corrosion.  Extractor  The extractors are made of stainless steel and designed to extra easily pull out wooden cores.		
		Complete increment borer A complete increment borer includes the handle, a borer bit and an extractor in selected		
		length and model. Borer bits and extractors can be purchased separately		

48	Borer drill machine	Max Capacity In Metal 10mm No-load RPM 0-400 RPM 0-1500 , RPM Battery Capacity 1.5Ah Model 8018 Battery Chemistry Lithium Battery Voltage 18V Max Torque 30N.M Chuck Size 10mm Max Capacity In Wood 20mm Weight 1.3kg Max Capacity in Masonary 10mm Chuck Design Keyless Includes Two 1.5Ah/18V batteries, 1 fast charger	2	
49	Borer socket	Dendro Socket TM 1/2 or 3/8 inches	1	
50	Chain saw machine	Specifications of 58cc chainsaw: Made: Turkey,EU,USA,German,Japan or Equivlent Product Type: Chainsaw Fuel Tank Capacity: 550ml Fuel Used: Petrol Oil ratio: 25:1 Displacement: 580CC Engine Power: 6hp, 4.4 kW Bar Length: 20 Inch Engine Type: 2 Stroke Guide Size: 20 Inch Weight: 8 Kg	1	

51	Microsc ope Setup for tree ring analysis	Tree ring system component .Made: Turkey,EU,USA,German,Japan or Equivlent 1- Work station computer 2- XY positioning Table 2a -X Drive 2b- Y Drive	1	
		<ul> <li>3- Microscope with sliding stage</li> <li>4- Digital Carmera</li> <li>5- Sample Mounting stage and sample</li> <li>6- XY Positioning table controller</li> <li>7- Focus controller</li> <li>8- Light power Supply</li> <li>9- Volmex Machine</li> <li>10- Major J2X</li> <li>11- Software COFFECHA and ARSTAN</li> </ul>		

52	Sanding machine		1	
53	Top balance (0.001g to 1000g) portable	<ul> <li>Capacity 1000g</li> <li>Capacity 1(kg)</li> <li>Capacity 2.2(lbs)</li> <li>Readability 0.01(g)</li> <li>Repeatability 0.03(g)</li> <li>Linearity 0.03(g)</li> <li>Weighing Units g, ct, lb</li> <li>Calibration Type External</li> <li>Output Bidirectional</li> <li>Battery Built-in rechargeable lead acid</li> <li>Power 100 to 240(VAC)</li> <li>Height (in) 3 3/16</li> <li>Width (in) 8 1/8</li> <li>Depth (in) 13 1/8</li> <li>Platform Length (in) 7 11/16</li> </ul>	1	

		Platform Width (in) 7 11/16		
		Description High Capacity Portable		
		Top loading Balance, 1000g x		
		0.01g, External Calibration		
		Warranty 5 Years- Made: Turkey,EU,USA,German,Japan or Equivlent		
54	Baromet er/	Temperature Range -10 to 60°C (14 to 140°F)	1	
	Altimete	Temp Resolution 0.1°C or 0.1°F		
	r	Temp Accuracy ±1.5°C		
		Barometric Press. Range 8.85 to 32.45 inHg; 300 to 1100 mbar		
		Barometric Press. RES 8.85 to 32.45 inHg; 300 to 1100 mbar		
		Barometric Press. Accuracy ±0.2363 inHg; ±8 mbar		
		Altitude Range		
		Altitude Resolution 0.1 from -500 to 999.9, 1		
		Timing Capacity Stopwatch and Countdown: 1 sec to 23 hrs, 59 min, 59 sec		
		Timing Resolution .1°		
		Dimensions 2-3/4"x3/4"x3-3/4"		
		Weight 3-1/2 ounces		
		A/C Plug (Y/N) N		
		Traceable Y		
		Supplied With batteries-Made: Turkey,EU,USA,German,Japan or Equivlent		
55	Тор	· Capacity 320 g	1	
	balance	Minimum display 0.001 g		
	(0.001g to 350g)	· Repeatability 0.001 g		
	10 0009)	· Linearity ±0.002 g		
		Built-in calibration TW only		
		Menu operation key Included		
		- Easy setting Included		
		<ul> <li>Check weighing Included</li> </ul>		

		· Piece counting Included		
		Formulation mode Included		
		· Operating temperature range 5 to 40°C		
		<ul> <li>Sensitivity stability against temperature range ±3 ppm/°C (10 to 30°C)</li> </ul>		
		Pan size Approx.     Dia. 110 mm		
		Body dimensions W x D x H 206 x 291 x 241 mm		
		· Weight Approx. 3.8 kg		
		Backlight display Included:Made: Turkey,EU,USA,German,Japan or Equivlent		
56	Conduct	Accuracy (TDS) ±0.5%±2 digits	1	
	ivity	Outputs Analogue and RS232		
	Meter (Bench	Range (TDS) 0 to 1999g/L		
	Conduct ivity/TD S/tempe rature	For Use With (Application) broad range of applications where greater accuracy is required with automatic conductivity standard recognition and endpoint detection		
	Meter)	Log Function Type 32 readings		
		Resolution (TDS) 0.01mg/L to 1g/L		
		Temperature Resolution 0.1°C		
		Width (Metric) 250 mm		
		Electrical Requirements 9VAC ±10% at 50/60Hz		
		Frequency 50/60Hz		
		Display Type LCD (Backlit 1/8 VGA)		
		Range (Conductivity) 0 to 19.99 S		
		Temperature Range 0 to 100 deg.C ATC/manual		
		Includes 6 autoselected range settings for conductivity and TDS, glass conductivity probe with ATC (K=1), electrode holder and UK power supply		
		Probe Type Conductivity		
		Resolution (Conductivity) 0.01uS to 0.01S		
		Temperature Accuracy ±0.5°C		
		Length 210 mm		
		Height 55 mm		

	-	Voltage 9V-Made:		1 1
		Turkey,EU,USA,German,Japan or Equivlent		
57	Dissolve	Display Backlit LCD	1	
	d	Data Logger Manual Logger: 1000 data sets		
	Oxygen	(single value by keystroke). Auto. Logger:		
	Meter	10000 data sets (cyclic, time interval: 1 - 3600		
		s) Power Supply 2 AAA batteries		
		Micro-USB		
		Portability Portable		
		Protection Class IP 67		
		Compliance CE		
		Languages User Interface German, English, French, Spanish, Italian, Portuguese, Dutch,		
		Chinese		
		Dimensions 98 x 37 x 164 mm		
		Weight 287 g		
		Range		
		Oxygen 0 - 70 mg/L O2		
		Oxygen 0 - 600 %		
		Temperature 0 - 50 ° C24/05/2024Made: Turkey,EU,USA,German,Japan or Equivlent		
58	Hygroth	Chart Type Drum	2	
	ermogra ph	Chart Speed 24 hour; 7 day, and 32 days (user selectable)		
		Chart Width (In) 6.625		
		Chart Length (in) 11.5		
		Max Temperature (° F) 122		
		Min Temperature (° F) 14		
		Max Temperature (° C) 50		
		Min Temperature (° C)-10		
		Temperature Accuracy ±1.8°F (±1.0°C)		
		Max Humidity (RH%) 95		
		Min Humidity (RH%)5		
		Humidity Accuracy±3% from 10 to 90%; ±5%		
		from 5 to 9%		
		Width (in)13 1/4		
		Height (in)11 1/2		

		Depth (in)5 37/64		1	l I
		Width (cm)33.7			
		Height (cm)29.2			
		Depth (cm)14.2			
		Made: Turkey,EU,USA,German,Japan or			
		Equivlent			
59	Microto	Slice thickness range : 0.5μm∼	1		
	me	100μm(3~5um is the best slicing effect)"			
		Specimen retraction: 10∼150µm(Can be			
		closed), in 1µm increments			
		"Section thickness setting : 0.5∼5µm, in 0.5µm increment			
		5~20µm			
		, in 1µm increments			
		20~			
		60μm,in 5μm increments			
		60~			
		100μm, in 10μm increments"			
		"Trimming thickness: 1∼600µm			
		Trimming thickness setting : 1~10µm, in			
		1μm increment ;			
		10~20μm,			
		in 2μm increments ;			
		20~50μm, in 5μm increments			
		50~			
		100μm, in 10μm increments;			
		100~			
		600μm, in 50μm increments"			
		Specimen vertical stroke : 60mm			
		Specimen horizontally stroke :			
		25mm			
		"Max specimen size with cassette clamp (H×W): 40mm×28mm			
		Max specimen size with C clamp (H×W) :			
		55mm×45mm"- Made:			
		Turkey,EU,USA,German,Japan or Equivlent			
60		Meter Type Benchtop	1		

PH meter	Display type Backlit custom LCD  Connections BNC  Min pH (pH)-2  Max pH (pH)19.999  pH Resolution 0.001, 0.01, 0.1  pH Accuracy ±0.003  Buffer Recognition DIN, NIST, JIS, and custom  Calibration User selectable 1, 2 or 3 point  Min mV (mV) -1999.9  Max mV (mV )1999.9  mV Resolution 0.1, 1  mV Accuracy ±0.2  Min Temperature (° C)-10  Max Temperature (° C)105  Temperature Resolution 1°F (0.1°C)  Temperature Accuracy ±1°F (±0.5°C)  Temperature compensation Automatic or manual from 32 to 212°F (0 to 100°C)  Memory Size 32  Power (VAC) 230  Length cm 25  Width cm 21  Height cm 5.5  Width (in) 8 1/4  Length (in)9 7/8  Height (in)2 3/16  Probe Included pH electrode and ATC probe  Description Standard Digital pH Meter Kit; 230  VAC/UK  Made: Turkey,EU,USA,German,Japan or Equivlent		
61 Pipette controll		1	
r	<ul><li>Dispense Speed 8 leverls Gravity</li><li>Dispense</li></ul>		

	(Motoriz	Battery Lithium-lon			
	ed	Battery Working Time 8 hours of intermittence			
	pipette	use			
	fill)	Charging Time Approx 2 hours			
		Pipette Types Glass or Plastic Pipette (0.1-100ml), Pasteur Pipettes			
		Filter 0.45 µm			
		Hydrophobic:Made:			
62	Pocket	Turkey,EU,USA,German,Japan or Equivlent Air velocity range: 80 to 5910 ft/min	1		
02	hygroth	Light range 0 to 20,000 lux			
	ermoan	±3% velocity accuracy			
	amomet	Ergonomic pocket-sized housing			
	er	10 to 95% RH with fast response			
		32 to 122°F using thermistor			
		-148 to 2372°F using Type K TC			
		Large LCD			
		Includes built-in humidity sensor, vane wheel,			
		wrist strap and 9V battery			
		Made: Turkey,EU,USA,German,Japan or			
		Equivlent			
63	Specific gravity	Specific Gravity Range 1.000 to 1.050	10		
	hydrom	ASTM No. 111H			
	eter	Subdivisions 0.0005			
		Length 13 in. (330 mm)-Made:			
		Turkey,EU,USA,German,Japan or Equivlent			
64	Turbidit	Type Infrared Lab Turbidity Meter	1		
	y meter	Display Type Color Graphic Display			
		Sample Size 12 mL			
		Accuracy ±2%, ±5%			
		Turbidity 0.01 to 1100 NTU			
		Length 10.45 in.			
		Width 7.6 in.			
		Height 2.76 in.			
		Battery Type NiCd rechargeable			
		Frequency 50/60 Hz			
		Certifications/Compliance CE, ISO			
		Temperature (Metric) Operating 5°C to 40°C			

		Weight (Metric) 1 kg		
		Light Source Infrared LED		
		Method Nephelometric		
		For Use With (Application) For quick and easy turbidity measurement in the laboratory		
		Resolution 0.01, 0.1, 1 NTU		
		Dimensions (L x W x H) 10.45 x 7.6 x 2.76 in. (26.5 x 19.3 x 7 cm)		
		Length 26.5 cm		
		Width 19.3 cm		
		Height 7 cm		
		Electrical Requirements 100/230 V 50/60 Hz		
		Voltage 100/230 V		
		Temperature (English) Operating 41°F to 104°F		
		Weight 2.2 lb.		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
65	Water Quality	Optics 6 temperature compensating LED, internal reference channel,	1	
	testing kit	photodiode in protected sample chamber 6 interference filters in one unit,		
	digital	λ 1 = 430  nm IF  Δλ  (nm) = 5,		
		λ 2 = 530  nm IF  Δλ  (nm) = 5,		
		λ 3 = 560  nm IF  Δλ  (nm) = 5,		
		λ 4 = 580  nm IF  Δλ  (nm) = 5,		
		λ 5 = 610  nm IF  Δλ  (nm) = 6,		
		λ 6 = 660 nm IF Δλ (nm) = 5		
		IF = interference filter		
		Display Graphic-display		
		Interfaces RS 232		
		Operation Acid and solvent resistant, touch-sensitive keypad		
		with audible feedback		

		Auto – OFF		
		Yes		
		Auto-Check By		
		pressing ON/OFF-key		
		Updates Software		
		and methods update by means of the internet		
		Internal Storage approx.		
		1000 data sets with date, time and registration number		
		Power Supply 7		
		NiMH-battery pack (AA/Mignon)		
		Portability		
		Benchtop		
		Environmental Conditions up to		
		max. 90 % humidity (non condensing) approx.		
		F 40.0C		
		5 - 40 °C		
		Compliance CE		
		Dimensions		
		265 x 70 x 195 mm-Made:		
		Turkey,EU,USA,German,Japan or Equivlent		
66	Silde	Terminals   HDMI	1	
	projecto	1/2 IN		
	Γ	HDMI 19-pin x 2 (Compatible with HDCP 1.4, Deep Color), Audio		
		signal: Linear PCM (Sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)		
		Terminals		
		Computer 1 In D-sub HD 15-pin (female) x 1 [RGB/YPBPR/YC]		
		Terminals		
		Computer 2 In/1 Out D-sub HD 15-pin (female)		
		x 1 [RGB/YPBPR] (Input/output switching)		
		Terminals   Video In Pin jack x 1		
		Terminals   Audio In		
		1		
		M3 (L,R) x 1		
		Terminals   Audio In		

		2		
		Pin jack x 2 (L,R)		
		Terminals   Audio		
		Out M3 (L,R) x 1 (Variable)		
		Terminals   LAN RJ-45 x 1 for network connection, 10Base-T/100Base-TX, PJLink™		
		(Class 2) compatible		
		Terminals   Serial In D-sub 9-pin (female) x 1 for external control (RS-232C compatible		
		Terminals   USB A USB Type-A (for Memory Viewer/Wireless Module [ET-WML100/AJ WM50 series*4]/Power supply [DC 5 V/2 A])		
		Terminals   USB B -		
		Power Supply AC 100–240 V, 50/60 Hz		
		Power Consumption 300 W		
		Built in Speaker 10 W monaural		
		Operation Noise*2 Normal: 38 dB, Eco: 35 dB, Quiet: 30 dB		
		Cabinet Materials Molded plastic		
		Dimensions (W x H x		
		D) 335 x 96*5 x 252 mm (13 3/16" x 3 25/32" *5 x 9 29/32")		
		Weight*6 Approx. 2.9 kg (6.4 lbs-Made: Turkey,EU,USA,German,Japan or Equivlent		
67	Pressur	Maximum operating pressure: 100 bar	1	
	e chambe	Chamber construction: Solid Stock Stainless Steel		
	r	Read-out: Bourdon tube, Gauge bar, PSI scale		
		Size (L x W x H): 1505D: 33 x 28 x 24 cm; 1515D: 56 x 38 x 26 cm		
		Weight: 1505D: 8kg; 1515D: 16kg		
		Accuracy: 1/2 of 1%:Made: Turkey,EU,USA,German,Japan or Equivlent		
68	Ocular	Division 0.1mm	5	
	microm	Shape Cross		
	eter	Material optical glass		
		Diameter 19mm;-Made: Turkey,EU,USA,German,Japan or Equivlent		

69	Stage microm eter	Stage Micrometer 10mm Scale x 0.1mm Divisions ;- Made: Turkey,EU, USA,German,Japan or Equivlent	1	
70	Analytic al Balance	· Capacity 500 grams	2	
		Readability 0.001 grams		
	Dalalice	· Linearity +/-0.002 gram		
		Repeatability +/-0.001 gram		
		Pan size 11.5cm/4.5in		
		• Weighing Units g, oz , ct.%		
		Calibration external :-Made: Turkey,EU,USA,German,Japan or Equivlent		
71	Titan	Titan GER 1000 or Equivalent	1	
	GER 1000	Detects underground remains, caves and artifacts.		
	Multidet ector	Dimensions 68x30x50 cm		
	00101	Surface Search range 2500m		
		Weight: 9kg		
		Search Systems: Five		
		Warranty: 2 years		
		Depth range: 45 meters		
		Made in: Germany/ France/Turkey/EU/UK.		
		Technical Specifications:		
		Frequency: 350 Hz to 500KHz		
		Data processing Speed: 8 to 20 MHz		
		Operating Temp: 0 to 70 Celsius		
72	GPS	Garmin DriveCam <sup>™</sup> 76 or Equivalent	1	
	with camera	Dimension 6.97"Wx4.17"Hx1.38"D		
		(17.7x10.6x3.5 cm)		
		Display size: 15.2x8.9 cm		
		Resolution: 1024x600 pixels		
		Made: Turkey,EU,USA,German,Japan or Equivlent		

73	The Archaeo	Major items and tools for basic surface excavation	2	
	logist Toolkit	Portable Small tool set for field use including Trowel, Brush, Dust Pane, Water Bottle, Shovel and large Pick Wheelbarrow and Zambeili, Bulk Scraper Made: Turkey,EU,USA,German,Japan or		
		Equivlent		
74	Wood borer,	For Dendrochronology samples collection and analysis	1	
	tools chain	Wood <b>borer</b> of 12, 24, 36 inches=3 Nos,		
	saw machine	Chain Saw =1,		
	, Sanding machine	Sanding machine with sand papers .  Made: Turkey,EU,USA,German,Japan or Equivlent		
75	3-D	Reproduce models of rarest artifacts.	1	
	printer small	HALOT-MAGE PRO 8k resolution or		
	size	Equivalent		
		Volume: 228x128x230mm		
		LCD Screen: 10.3" monochrome		
		Printing speed:170mm/h		
		LCD Resolution: 8k		
		XY Resolution: 29.7micro meter		
76	C-12 Portable	Determining age of an artifact using carbon dating tech	1	
	Black	BC 1060/165 / C-12-9800 REV A or		
	Carbon Monitor	Equivalent Wavelength 880 and 370 nm		
	WOTHO	Integrated with CCS+ CMET Cloud modem,		
		GSM module		
		Sampling rate 1 LPM Sensitivity 70 ng/m3 at 1 minute time interval		
		or better		
		Portable fully self contained.		
		Made: Turkey,EU,USA,German,Japan or Equivlent		
77	Survey	Field survey of fossil remains and rocks	1	$\dashv$
	tools kit	Geological survey field kit (Boxed set including		
		geological hammer hardness 9+, chisels, round		

meter rod, Pegger, brushes, magnifying glass of 30+, magnetometer, hardness meter etc.)		
Made: Turkey, EU, USA, German, Japan or Equivalent.		
Total		

FINAL TOTAL PRICE (in words):
Signature:
Designation:
Date:
Official Stamp

# SECTION IV EVALUATION CRITERIA

(A) Technical Evaluation Criteria:

Technical Bids will be evaluated on the basis of following criteria and Financial Bids of only those bidders will be opened who have fulfilled the criteria:

Sr. No.	Description	Allocated Marks
1	Company Profile, Experience & International Certifications if any. (35 Marks)	
i	Company Profile Years of operations (From Registration date of NTN / FBR) Two (02) marks for one (01) year experience will be awarded. Maximum marks will be awarded, if the firm has 05 years or more experience.	10 marks
ii	Relevant Experience Similar assignments / supplies over last 05 years.  1 similar project= 05 marks 2 similar projects= 10 marks 3 similar projects = 15 marks Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded.	15 Marks
iii	Value of Projects Capital Cost of similar projects / Supplies completed over last 05 years If the total value is equal to or more than the value of current project i.e. PKR [10 Million] For one project= 05 marks will be awarded For two or More projects =10 marks will be awarded Purchase orders / supply orders / completion certificates must be attached, otherwise, no marks shall be awarded.	10 marks
2	Financial Position (Total 10 Marks)	
i	Annual Turnover (last 03 years) If the total annual turnover indicated in audit report/tax return of last three years is equal or above PKR: 30 Million, then maximum allocated marks may be awarded. If total turnover during last three years is up to PKR [20 Million] = 05 marks If total turnover during last three years is up to PKR [30 Million] = 10 marks If total turnover during last three years is upto PKR [40 Million] = 15 marks Audit statement/Tax Returns of last three financial years must be attached, otherwise, no marks shall be awarded.	10Marks

3	Specific Criteria (Total 55 Marks)		
i	1.Total HR strength of firm (List of staff and payroll record is mandatory) 05 Marks  2. List of technical staff (Qualification of technical staff)	10Marks	
	<ol> <li>List of technical staff (Qualification of technical staff)</li> <li>Field related projects training certificate also required.</li> <li>Marks</li> </ol>		
ii	Relevant Certificate/s Authorized dealer / distributor	10 Marks	
iii	<ul> <li>a) Mandatory Criteria Compliance to the Technical Specifications. The bidder shall awarded full marks, if bidder quote for the equal or above specifications mentioned in Technical Specifications.</li> <li>Note: Provide the leaflets/brochures/catalogs of quoted products with the technical bid also.</li> </ul>	35 Marks	

The bidder must provide Verifiable documentary proof against all the mandatory requirement along with the Technical Proposal and no document will be received or considered after opening of the Technical Proposal. Demonstration will be held for confirmation of specifications of the quoted item/model. The Qualifying marks are sixty-five (65). Conformance to the required specification of items given in Schedule of Requirement will be evaluated by the Evaluation Committee/Technical Committee. The Evaluation Committee or Technical Evaluation Committee will ask for physical Demonstration or samples of any item given in the Tender Document for confirmation of specifications if needed.

# (B) Financial Evaluation:

Financial bids of eligible and technically qualified firms will be opened before the bidder's representatives who wish to attend the tender opening.

#### **Financial Proposal Evaluation:**

Technically qualified/successful bidder(s)/Tenderer(s) shall be called for opening of the Financial Proposal(s). The Financial Proposals will be opened in the presence of the Bidders at the time and venue indicated by the Purchaser accordingly. The technically Eligible/Successful Bidder(s)/Tenderer(s) or their authorized representatives against shall be allowed to take part in the Financial Proposal(s) opening against their relevant Lot(s) or items. Financial Proposal evaluation will be conducted under item viz.

Financial Proposal evaluation will be conducted under the PPRA Rule. The Price evaluation will include all duties, taxes and expenses etc. In case of any exemption of duties and taxes made by the Government in favor of the Purchaser, the contractor shall be bound to adjust the same in the Financial Proposal.

Financial proposal will be evaluated on the basis of One person One Bid in terms of PPRA Rules. No serial # or item name will be changed in the financial proposal. The bidder will quote per unit rate with GST and Total amount with GST as per given serial number/item name in the bidding documents. The bidder will follow the bidding documents in letter and spirit

Note: The most advantageous bid will be awarded the contract as per PPR,2004.

#### **Section-VI**

# **Special Conditions of Contract**

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of Contract.

#### 1. Definitions

The Purchaser is: University of Baltistan, Skardu.

The Delivery Site is: Hussainabad, Skardu.

# 2. Inspection and Tests

- i. After delivery of goods at the Purchaser's premises, the Purchaser shall inspect the quantity, quality, specifications of goods.
- ii. The Inspection Committee of the Inspection Committee of University of Baltistan, Skardu will carry out detailed physical examination of stocks and can reject, any item if found not according to the approved technical specifications etc. Moreover, the Supplier will also be responsible to replace the same without any further charges.

#### 3. Packing

Packing & accessories: All the items to be provided in proper company packing with brochures.

#### 4. Transportation and delivery requirements

- i. The bidder shall deliver the supplies at the destination in scratch-less condition with all the manufacturer supplied accessories.
- ii. The Supplier shall arrange such transportation of the Goods as is required to prevent their damage or deterioration during transit to their final destination and in

accordance with the terms and manner prescribed in the Schedule of Requirement.

iii. All costs associated with the transportation including loading/unloading and road taxes shall be borne by the Supplier.

## 5. Payments

Payment to the successful bidder/Supplier will be made subject to:

- Satisfactory delivery, inspection, testing and configuration of items.
- Upon submission of required documents.
- On submission of invoice for payment to treasurer office UOBS, after fulfilling codal formalities.
- 100% payments will be made after successful testing and commission through cross cheque by UOBS Skardu.

#### 6. Prices

Prices shall be: Fixed.

# 7. Liquidated Damages

Applicable rate: Penalties for delayed delivery of **Lab Equipment** (Chemistry, Zoology, Botany Environmental Science, Archeology) shall be as under:

Mode of Penalty	100% Quantity as Per Purchase Order	Total delivery period
Without penalty	07 days	14 days
With penalty @ 1% per day after 07 days from date of issuance of Purchase Order up-to maximum of 10% of the total Contract Price	07 days	14 days

# 8. Resolution of Disputes

The dispute resolution mechanism to be applied shall be as follows:

In the case of any dispute concerning the interpretation and/or application of this contract shall be settled through arbitration. The Treasurer, UOBS or his nominee shall act as sole

arbitrator. The decisions taken and/or award made by the sole arbitrator shall be final and binding on the parties.

- **9. Guarantee Certificate:** The manufacturer/Supplier shall submit a certificate at the time of delivery that the supplied are brand new, of approved/demanded model, absolutely free from material and manufacturing defects and are in accordance with the specifications given in the bidding documents. The contractor shall supply two copies of service manual.
- **10.** Whereas required; the manufacturer/Supplier shall furnish an undertaking to provide the after sale service for the comprehensive warranty period as per mentioned in the specifications / bid data sheet from the date of installation/commissioning etc.
- **11.** The contractor may be required by University of Baltistan to get the sample of one or all the tender items approved prior to final purchase order.
- **12.** Equipment/machinery/Items shall be supplied on "Turn Key" basis meaning thereby that all the pre-requisites for the efficient working of the machinery/equipment/items to be supplied and installed by the contractor are fulfilled.
- 13. Payment will be made in Pak Rupees.
- **14.** If any firm competes for any tender / lot then it will be assumed that firm has accepted all terms & conditions issued by University of Baltistan in the bidding document.

# **General Conditions of Contract (GCC)**

#### 1. Definitions

In this Contract, the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the Purchaser (University of Baltistan, Skardu.) and Supplier, as recorded in the Agreement/ Contract signed by the Parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its Contractual obligations.
- (c) "The Supplies" means all those furniture and/or other material which the Supplier is required to supply to the Purchaser under the Contract.
- (d) "The Services" means those services ancillary to the supply of the goods, such as transportation of goods upto the desired destinations, insurance and any other incidental

services such as installation, commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Contract.

- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means Special Conditions of the Contract.
- (g) "The Purchaser" means the organization purchasing the Goods, as named in the SCC.
- (h) "The Supplier" means the individual or firm supplying the Goods and Services under this Contract.

## 2. Application

These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.

#### 3. Standards

The Goods supplied under this Contract against the "Purchase Order", shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods' country of origin. Such standards shall be the latest issued by the concerned institution.

# 4. Packing

The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as shall be indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified in SCC, and in any subsequent instructions ordered by the Purchaser

# 5. Payment

- I. The method and conditions of payment to be made to the Supplier under this Contract shall be specified in SCC.
- II. The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed and upon fulfillment of other obligations stipulated in the Contract.
- III. Payments shall be made promptly by the Purchaser, but in no case later than thirty (30) days after submission of an invoice or claim by the Supplier.

IV. The currency of payment is Pak. Rupees.

#### 6. Prices

Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any price adjustments authorized in SCC or in the Purchaser's request for bid validity extension, as the case may be.

#### 7. Contract Amendments

No variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

## 8. Assignment

The Supplier shall not assign, in whole or in part, its obligations to perform under this Contract.

#### 9. Termination for Default

- I. The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate this Contract in whole or in part:
- (a) if the Supplier fails to deliver any or all of the Goods within the period(s) specified in the respective "Supply Order" which shall be issued from to time to time under this Contract; or
- (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- (c) if the Supplier, in the judgment of the Purchaser has engaged in corrupt and fraudulent practices in competing for or in executing the Contract.

For the purpose of this clause:

"corrupt and fraudulent practices" includes the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official or the supplier or contractor in the procurement process or in contract execution to the detriment of the procuring agencies; or misrepresentation of facts in order to influence a procurement process or the execution of a contract, collusive practices among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the procuring agencies of the benefits of free and open competition and any request for, or solicitation of anything of value by any public official in the course of the exercise of his duty.

II. In the event the Purchaser terminates the Contract in whole or in part, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Purchaser for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

## 10. Force Majeure

- I. Notwithstanding the provisions of GCC Clauses, the Supplier shall not be liable for forfeiture of its bid security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- II. For purposes of this clause, "Force Majeure" means an event beyond the control of the Supplier and not involving the Supplier's fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- III. If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

# 11. Resolution of Disputes

The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

# 12. Applicable Law

The Contract shall be interpreted in accordance with the laws of the country.

#### 13. Notices

- I. Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or by cable, telex, or facsimile and confirmed in writing to the other party's address specified in SCC.
- II. A notice shall be effective when delivered or on the notice's effective date, whichever is later.

#### 14. Taxes and Duties

Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.

**15.** 10% of quoted bid as performance security will be retained for one year.

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