

Rs. 1500/-

TENDER DOCUMENTS**FOR**

PURCHASE OF LABS PURCHASE/SUPPLY OF LAB EQUIPMENT/INSTRUMENTS/CONSUMABLES/CHEMICALS /EXPENDABLES FOR THE FOLLOWING DEPARTMENT.

S. No.	Department
1.	Agronomy
2.	Food sciences & Technology
3.	Horticulture
4.	Entomology

SINGAL STAGE, SINGLE ENVELOPE PROCEDURE**Bid submission Date 12/04/2021 Time: 10:00 AM****Tender Opening Date: 12/04/2021 Time: 11:00**

Check list		
S.No	Attach Documents	✓ / x
1	Tender document are enclosed in the bid	
2	Tender document are signed and stamped.	
3	Non-black listed certificate has been enclosed in the bid.	
4	CDR has been enclosed.	
5	NTN certificate has been enclosed in the bid	

**PURCHASE OF LAB EQUIPMENTS/INSTRUMENTS/CONSUMBLES/CHEMICALS/EXENADBLES
(Single-Stage, Single Envelope Procedure)**

1. General

- a. Any bid without 2% earnest money will not be accepted.
- b. Conditional/incomplete bid will not be accepted.
- c. Any addition/deletion/modification of any clause of these conditions/bidding documents is not acceptable and lead to rejection of the bid.
- d. By submitting the bid, the bidder/vendor/firm declares to abide by and bound by the conditions laid down in the advertisement together with those mentioned in this bidding document.
- e. Any bidder interested in bidding for one or more items separately is allowed to do so. However, preference will be given to bidder offering several items together.
- f. The prices quoted must be valid for at least 180 days from the date of tender opening.
- g. Telephonic/telexed/faxed/telegraphic quotations will not be entertained.
- h. Bid received after closing date/time will not be entertained.
- i. In case of closed/forced holidays, tender opening time/date will be considered as the next working day.
- j. Advance payment is not allowed at any stage and shall not ask for.
- k. The firm/vendor will be liable to provide Tax Invoice in case of imported Goods, if/when Abdul Wali Khan University Mardan demanded to provide.
- l. The University Purchase Committee reserves the right to call demonstration at any stage. (if required)

The bid must accompany the following. Failing which leads to disqualification.

- m. Tender number, tender title, date and time of its opening shall be clearly written at the face of envelop
- n. Quality of quoted items/material/equipment must be according to prescribed specifications.
- o. Firm/Bidder registration certificate with the Federal/Provincial Government.
- p. The firm bidder shall clearly provide the proof of Registration for GST and NTN on their printed letter heads.
- q. Valid NTN/STRN Certificates.
- r. Certificate to the effect that the Firm/Bidder never been blacklisted by any Government/Semi Government Organization/Agency/autonomous body/private sector organization anywhere in Pakistan (submission of undertaking on legal stamp paper).
- s. The tender documents shall serve as the essence of this contract.

2. Scope of Supply

- a. Abdul Wali Khan University, Mardan (hereinafter referred to as AWKUM) invites requests/proposals to purchase LAB EQUIPMENTS/INSTRUMENTS/CONSUMBLES/CHEMICALS/EXPENDBLES (*specification stated on last page*)
- b. The successful bidder shall supply the items as per prescribed specification approved by University Purchase Committee (hereinafter referred to as UPC)
- c. The items shall be delivered at Store Purchase Section, AWKUM.

3. Bid Price

The bidder shall specify, required items as per specification, their unit price, and total bid price in his offer. The quoted prices shall be:

- a. Best/final/fixed and valid until completion of all obligation under the contract i.e. not subject to variation/escalation etc.
- b. In Pak Rupees
- c. Inclusive of all taxes, duties, levies, insurance, freight, etc.
- d. Include all charges transportation, loading-unloading up to the delivery point at Abdul Wali Khan University, Mardan or as specified by AWKUM in supply order/at the time of delivery.
- e. Where no prices are entered against any item(s), the price of that item shall be deemed be free of cost, and no separate payment shall be made for that item(s).
- f. In case of locally produced goods and services, the price shall include sales and all other taxes (whichever applicable).
- g. In case of contract of imported goods and services, import duties, sales and other taxes (whichever applicable), already paid shall be shown separately (if required by AWKUM).
- h. Taxes levied by the Government (if any), shall be deducted from the bidder as per rules.

4. Earnest Money/Bid Security

The bidder firm/vendor shall furnish the bid security (Earnest Money) as under:

- a. 02% (Two Percent) of the total bid price.
- b. No bid will be accepted without earnest money.
- c. Denominated in Pakistani Rupees.
- d. Must be attached with financial proposal, failing which will cause rejection of bid.
- e. In the form of Call Deposit Receipt (CDR) in the name of "Treasurer Abdul Wali Khan University Mardan".
- f. The earnest money will be released to successful bidders after inspection/satisfactory report of the Inspection Committee.
- g. The Earnest Money will be returned on written request to the unsuccessful bidders.

The bid security shall be forfeited by AWKUM, on the occurrence of any/all of following conditions.

- a. If the bidding firm/vendor withdraws the bid during the period of tender/bid validity.
- b. If the bidding firm/vendor does not accept the corrections of his total tender/bidding price.

- c. If the bidding firm/vendor, having been notified of the acceptance of the tender by AWKUM during the period of bid/tender validity, fails or refuses to furnish the Performance Guarantee (if Required), in accordance with the tender document.
- d. If the vendor fails to supply the total awarded items within stipulated time period.

5. Bid/Tender Validity

The bid shall have a minimum validity period of One Hundred and Eighty (180) days from the date of opening of bids. The AWKUM may solicit the bidding firm/vendor's consent to an extension of the validity period of the bid. The request and the response thereto shall be made in writing. If the bidding firm/vendor agrees to permit extension for validity period of the tender, the validity period of the bid security shall also be suitable extended. The bidding firm/vendor may refuse extension of validity period of the bid validity, without forfeiting the bid security.

6. Signing of Bids

The bidding firm/vendor must sign and stamp all pages of the tender documents.

7. Rejection/Acceptance of the Bids

The AWKUM shall have the right to reject all bids or proposals at any time prior to the acceptance of a bid or proposal. The authority shall upon request communicate to any bidder, the grounds for its rejection of all bids or proposals, but shall not be required to justify those grounds.

The tender/bids shall be rejected if:

- a. The offered items/services do not meet the technical specification of required items/services.
- b. The bidder submits incomplete/partial/conditional/alternative/late documents.
- c. Bid is not submitted completely for all the items required to be purchased.
- d. Bid security/Earnest Money is not submitted.
- e. It is subjected to interlineations/cuttings/corrections/erasures/overwriting.
- f. The bidding firm/vendor refuses to accept corrected Total Tender Price.
- g. The bidding firm/vendor tries to influence the tender evaluation/contract award by unsolicited advice/clarifications and any personal approach at any stage of the tender.
- h. The bidding firm/vendor engages in corrupt or fraudulent practices in competing for the contract award.
- i. The bidding firm/vendor fails to meet all the requirement of tender eligibility/qualification criteria.
- j. The bidding firm/vendor has been blacklisted by any public or private sector organization.
- k. The bidding firm/vendor has been served any legal notices or displeasure letters by any public sector organization on serious failures to provide satisfactory services.
- l. The bidding firm/vendor has mentioned any financial implications in the financial proposal that is in contradiction to this document and Government rules and regulations.
- m. There is any discrepancy between bidding documents and bidder's proposal i.e. any non-conformity or inconsistency or informality or irregularity in the submitted bid.

- n. The bidding firm/vendor submit any financial conditions as part of its bid which are not in conformity with tender document.
- o. Non-submission of verifiable proofs against the mandatory as well as general documentary, qualification and eligibility related requirements.
- p. If the rates quoted by vendor are not workable or on higher side etc.
- q. Not providing Sample (if required/mentioned in tender documents).
- r. Not performing demonstration (if required/mentioned in tender documents).

8. Award Criteria

- a. Technically qualified and successful bidding firm/vendor will be evaluated in the light of all pre-conditions, necessary requisites and shall be selected on lowest cost quoted as per rules and fulfilling all codal formalities.

9. Variation in scope of Work

AWKUM shall have the right, at his exclusive discretion, to drop/increase/decrease the quantity/quality/form of any or all item(s) without any change in unit prices or other terms and conditions, at the time of order placement. AWKUM reserves the right to remove any item or service executed which is not accordance with the tender/item specification or order contractor to provide items/services according to tender/item specification. In case of non-compliance by the contractor, AWKUM shall remove such items/services from the awarded supply order and will executed through other arrangements at the sole risk, cost, and responsibility of the contractor.

10. Delivery of Goods/items

The contractor shall make delivery of the items within 90 days from the date of issuance of supply order. A penalty of 0.5% of total cost of order can be imposed per day up to 10 days for delay on the part of contractor. A penalty of 1.0% of total cost will be imposed for delay beyond 10 days. The delivery of items shall be made at store purchase section, procurement office, AWKUM or as specified by AWKUM at the time of delivery. No separate payment shall be made in this regard.

11. Guarantee/Warranty

- a. The contractor shall warrant to AWKUM that the goods supplied, under the contract are genuine, brand new, non-refurbished, un-altered in any way, of the most recent or current model, imported through proper channel, and incorporate all recent improvements in design and materials, unless provided otherwise in the contract.
- b. The contractor shall further warrant that the goods/services supplied, under the contract shall have no defect, arising from design, materials, and workmanship or from any act or omission of the bidder that may develop under normal use of the supplied goods/services.
- c. The contractor shall provide manufacturer's warranty (as per manufacturer's policy) or as described with item specification after the issue of taking-over certificate.

- d. The contractor shall provide warranty for free/on site repair/replacement of defective/damaged parts, after intimation by AWKUM.
- e. The contractor shall clearly mention Terms and Conditions of service agreement for the goods supplied. In case of international warranties, the local authorized dealers shall mention their service and warranty setup.
- f. The warranty period shall start from the date of installation/configuration/delivery of the good at AWKUM.
- g. The AWKUM shall, by written notice served on the contractor, indicate any claim(s) arising under the warranty.
- h. The contractor shall, within the prescribed time period, after receipt of such notice, repair or replace the defective/damaged goods or parts on site, without any cost to the purchaser.

12. Taxes

- a. The contractor shall be entirely responsible for all taxes, duties and other such levies imposed make inquiries on income tax/sales tax to the concerned authorities of income tax and sales tax department, Government of Pakistan.
- b. All government taxes shall be deducted at source (if applicable) according to the relevant rules.

13. Inspection and Testing

- a. The AWKUM shall inspect and test the goods supplied, the services provided under the contract, to verify their conformity to the technical specifications.
- b. The inspection and tests shall be conducted at the premises of the contractor or at the AWKUM/at the final destination. In case of conducted at the premises of the contractor, the contractor shall provide all-reasonable facilities and assistance, including production data and online verification from official web site of the manufacturer, to the inspectors, at no charge to the AWKUM.
- c. The AWKUM may reject the goods/services if the committee/inspector/investigator fails to confirm to the technical specification, in any test(s) or inspection(s) and the contractor shall either replace the rejected goods/services or make all alterations necessary to meet the technical specifications, within prescribed time/duration, free of cost to the AWKUM.
- d. The AWKUM's post-delivery right to inspect, test and, where necessary, reject the goods shall in no way be limited or waived by reason of pre-delivery inspection, testing or passing of the goods.
- e. Nothing contained in this document shall, in any way, release the contractor from any warranty or other obligations under the contract.

14. Responsibility Against Damages/Ownership of Goods

- a. The contractor shall be responsible for whole/any damage caused to the item(s)/goods by accident/improper handling/loading un-loading, before handed over to/taking charge by AWKUM. The contractor shall replace the same.
- b. The contractor shall, by written notice served to AWKUM, apply for Taking-over certificate.

- c. The AWKUM shall, after the receipt of contractor's application, either issue the Taking-over Certificate to the contractor or reject the application giving the reasons and specifying the work required to be done by the contractor to enable the Taking-Over Certificate to be issued.
- d. Nothing contained in this document shall, in any way, release the contractor from any warranty or other obligations under the contract.

15. Payment

- a. Payment shall not be made in advance and against partial deliveries.
- b. The contractor shall provide all necessary and supporting documents along with invoice.
- c. The contractor shall submit an application for payment, to the AWKUM. The application for payment shall be: accompanied by such invoices, receipts or other documentary evidence as the AWKUM may require; state the amount claimed; and set forth in detail, in the order of price schedule, particulars of the goods supplied/services provided up to the date of application for payment.
- d. The AWKUM shall get verified the details of goods/services delivered. Payment shall be made on complete delivery of goods/services after issuance of satisfactory certificate by concerned technical committee/Head of Department/Project Investigator.
- e. The AWKUM shall pay the ninety percent (90%) amount verified and ten percent (10%) amount of the total contract will be kept as performance guarantee for one year.
- f. AWKUM shall make payment for the goods supplied and services provided to the contractor as per Government policy, in Pak Rupees through crossed cheque.
- g. All payments shall be subject to any and all taxes, duties and levies applicable under the laws of Pakistan for the whole period starting from issuance of Supply Order till delivery of the goods/services.

16. Supply Period

- a. The AWKUM shall purchase the items or shall avail the services within valid period of the tender.
- b. The successful bidding firm/vendor shall be responsible to deliver goods/services within due time as given in Supply Order/Tender Document.

17. Dispute resolution

The Purchaser and the Contractor shall make every effort to amicably resolve, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the Contract. The contractor shall in writing report to the competent authority who shall refer it to Tender Redressed Grievance Committee (TRGC) for further process as per AWKUM financial rules.

18. Force Majeure

"Force Majeure" means an event which is beyond the reasonable control of a party and which makes a party's performance of its obligations under the Purchase Order/ Work Order/ Contract impossible or so impractical as to be considered impossible under the circumstances, and includes, but is not limited to, War, Riots, Storm, Flood or other industrial actions (except where such strikes, lockouts or other industrial issues are within the power of the

party invoking Force Majeure), confiscation or any other action by Government agencies. In all disputes between the parties as to matters arising pursuant to this Purchase Order/ Work Order/ Contract, the dispute will be dealt as per section 35 of the KPPRA Act 2012.

19. Agreement Deed

After receiving work order/supply order the firm has to sign a formal agreement deed on a stamp paper of appropriate value as per attached sample (annex-1)

AGREEMENT DEED SAMPLE (ANNEX-1)

Agreement Deed

The parties to this agreement deed i.e. Abdul Wali Khan University Mardan (Party –I) and Firm Name M/S ----- (Party – II) hereby agreed as under:

1. Party II shall supply the items against supply Order No _____ dated _____ as per quoted specifications within _____.
2. Party II shall be responsible for guarantee /warrantee/Expiry of supplied items/Chemicals up to -----
3. In case of defect in any item the supplier shall repair/replace it free of cost within four weeks; otherwise the supplier shall return the entire paid amount to Abdul Wali khan University Mardan.
4. If any over pricing or low specification is found at any stage, the party – II shall be responsible for recovery/rectification.
5. Party II shall be responsible for transportation charges for supply of items and no separate payment shall be admissible in this regard.
6. No Advance Payment shall be made by party I.
7. 90 % percent payment shall be made to the supplier after inspection of items/Services carried out by Inspection committee constituted by AWKUM while the remaining ten (10%) percent of the total amount shall be kept as performance guarantee for one (01) year that shall start from the date of inspection.
8. All taxes shall be deducted as per University/FBR rules from the claimed bills of Party II.
9. All payments shall be in Pak rupees (through cross cheque) by Party I.
10. No partial payment shall be made by Party I.
11. If the firm failed to complete the supply of items as per awarded Supply order the Call Deposit(CDR) of the firm shall be forfeited.
12. Any grievance shall be resolved as per AWKUM Financial Rules 2020 i.e. Through Tender Grievance Redressal Committee
13. Bidding documents shall serve as essence of contract.

Firm Owner /authorized
Representative Signature & Stamp

Procurement officer
AWKUM

Countersigned by Registrar
Abdul Wali Khan University,
Mardan

CNIC No. -----

Witness 1 (Behalf of Firm)

Witness 2 (Behalf of Firm)

Name -----

Name -----

F/N -----

F/N -----

CNIC -----

CNIC -----

Signature -----

Signature -----

HORTICULTURE**DETAIL ALONG WITH SPECIFICATIONS**

S. No	Equipment name	Quantity
1	<p align="center">Digital Refractometer</p> <p>Specifications: Small sensor area allows measurement of minute samples, Measures Brix from 0 to 53.0% (Accuracy \pm 0.2%), Automatic temperature compensation, Large digital display of Brix and temperature, Operates on two AAA batteries</p>	1
2	<p align="center">Digital weighing balance</p> <p>Specifications: Power Supply: 220V, Display Type: digital display, Balance USE: laboratory, Precision: 0.0001g, Scale Type: Digital, Certification: iso9001, Balance design: customized, analytical balance: Mini 0.1mg (0.0001g) Lab Electronic Analytical Balance</p>	1
3	<p align="center">6 Inch Digital Vernier Caliper</p> <p>Specifications: Range; 0-6 inches/150mm, Accuracy; +0.001"/0.02mm, Resolution; 0.01mm, Size; 23.58*7.5*0.5, automatic off, zero settings in any position</p>	1
4	<p>Eppendorf Research Plus Pipettes for Lab Research</p> <p>Specifications: Vol; 0.5-10 μL, 10-100 μL, 0.5-10 μL, 200 μL, 500 μL</p>	(Each vol. 2) 10
5	<p align="center">Digital bottle top burette</p> <p>Specifications: Titrate quickly and reliably with highest precision, even in close quarters, with no power hookup needed.</p> <ul style="list-style-type: none"> • Precision titrations within the error limits of Class A • Large, easy-grip hand wheels for sensitive, drop-wise titration • Titrating tube can be adjusted horizontally and vertically - providing flexibility when positioning the instrument • No switching needed when changing between filling and titration • Calibration scheduler saves a date for the next calibration, Auto-Power-Off, Change decimal place settings • Easy cleaning, maintenance and part replacement 	2
6	<p align="center">Spirit lamp</p> <p>Specifications: Material: Stainless Steel, Reusable or Disposable: Reusable, Sterile or Non-Sterile: Non-Sterile, Latex-Free: Yes, Ultrasonic Cleaned: Yes, Mirror-Polished: Yes, Lubricate: No, Usage: Left Hand or Right Hand</p>	2

7	Forceps for Laboratories Specifications: Temperature-resistant Stainless Steel Forceps, Sharp Tip contain a bent round tip.	8
8	Scissors Specifications: Temperature-resistant universal scissors	4
9	Stainless steel Blades Specifications: Razor-sharp cutting edge for superior cutting and clean incisions, Sterile; 5-year shelf life	4
10	Scalpel Handles: Specifications: A variety of scalpel handles and razor blade holders are available here.	4
11	Petri dishes Specifications: Use for standard microbiology or general laboratory use, Stackable lid design for increased stability, Two sizes: 60mm x 15mm and 100mm x 15mm	100
12	Digital chlorophyll meter Specifications: Optical Density Difference at two wavelengths: 650 nm and 940 nm, Measurement Area: 2 mm x 3 mm (Approximately 3/32 in x 1/8 in), Light Source: 2 LEDs, Receptor: Silicon Photodiode, Power Source: 2 AA alkaline batteries (1.5V), Repeatability: Within ± 0.3 SPAD unit SPAD Value: Index of relative chlorophyll content; -9.9 to 199.9	1
13	Portable Juicer/blinder Specifications: 1000 watt motor has the power to crush through whole fruits, vegetables and ice in seconds	1
14	Fruit Hardness Tester Meter Specifications: Range;0.01 Kg/cm ² , Pressure head diameter; 1# 11.1mm ,Display: Digital LCD, Insertion depth of pressure head 10mm	1
15	Plants propagation kit Specifications: Scissor, Knives, Blades, Hoe, Secateurs, Gardening Gloves, Fork etc	2
16	Wash bottles Specification: Vol; 500 ml, with extended emitter	4

17	Germination/Seedling trays Specifications: 50, 100 pits per tray	10
18	4 In 1 Digital Ph Moisture Soil Meters Specifications: Soil moisture (5 levels), soil pH (12 levels) and temperature (°C & °F), Simply insert the meter into the soil, switch to the setting you want to measure and read the scale, Fast and precise measurements, Ideal and necessary tool for gardeners, vegetable and fruit growers, and all those who plant trees and grass. You can take good care of your plants, Auto shut power off	2
19	Microwave oven Specifications: Dimensions: 458(w) × 360(d) x 291(h),Speed Defrost, Digital, Numeric LED Display	1
20	Tripod to support flasks and beakers, made up of stainless steel	10

FOOD SCIENCES & TECHNOLOGY**DETAIL ALONG WITH SPECIFICATIONS**

S.No.	Name of Equipment	Specification	Quantity
1	ABBE Refractometer	<p>Measurement ranges</p> <ul style="list-style-type: none"> - Refractive index 1,300 ... 1,700 nD - Sugar content 0 ... 95 % <p>Resolution</p> <ul style="list-style-type: none"> - Refractive index 0.0002 nD - Sugar content 0,25 % <p>Accuracy</p> <ul style="list-style-type: none"> - Refractive index 0.0002 nD - Sugar content 0,25 % <p>Indicator</p> <p>divided scale (upper part % Brix / lower part: refractive index nD)</p> <p>Weight 3 kg</p>	1
2	Ezycolor Colorimeter	<p>1 ml</p> <p>Detector Selenium Photocell/Photo Detector</p> <p>Dimension 225x210x110 mm</p> <p>Light Source 6.8 V, 0.3Amp, Tungsten Lamp</p> <p>Range 400-700 nm</p> <p>Power 230V + 10%, 50 Hz. AC</p> <p>Warm Up Time 5 minutes</p>	1
3	Penetrometer	<p>Hand-held, analog meter</p> <p>Light-weight, portable, includes protective carrying case</p> <p>On-site measurement of fruit firmness indicates maturity or ripeness</p> <p>Easy to read scale - trailing pointer indicates highest resistance point</p> <p>Plunger tip marked for accurate penetration depth</p>	1

		Determine fruit quality during harvest, shipping, receiving, processing, storage	
4	Flame Photometer	<p>The Sherwood Model 410 Classic Flame Photometer directly measures Sodium (Na), Potassium (K) and Calcium (Ca) as standard, by means of a low temperature flame using Propane, Butane, Mixed LPG or Natural Gas (Propane preferred). Optional filters for determination of Lithium (Li), Caesium (Cs), Barium (Ba), Rubidium (Rb) and Strontium (Sr) are available.</p> <p>With sensitivity and stability second to none, the Model 410 is also very easy to use with a large up-front working area and easily interchangeable filters for all the above elements</p> <p>The Model 410 Classic is also the safest Flame Photometer with features such as:</p> <ul style="list-style-type: none"> • Optical Detection of flame and fail safe operation • Air pressure switch to extinguish flame in absence of air • Auto ignition. 	1
5	Bench Centrifuge	<p>Speed 4,000 rpm (25,132.7 rad.min⁻¹) Cooling 4 °C</p>	1
6	Micro pipettes	<p>10 µL 20 µL 50 µL 100 µL 200 µL 500 µL 1000 µL 5000 µL</p>	2 sets
7	Water activity analyser	<p>RANGE OF APPLICATION -10...60 °C (14...140 °F) / 0...1 Aw / 0...100 %RH POWER CONSUMPTION 8...16 VDC (+ AC adapter) CALCULATIONS All psychrometric calculations available or user defined calculations CURRENT CONSUMPTION Max. 120 mA (12 VDC, backlight ON, 4 probes connected, Ethernet)</p>	1

		<p>LCD 3-line alphanumeric with trend indicators</p> <p>MEASUREMENT INTERVAL 1 s</p> <p>PARAMETERS SHOWN Aw, % RH, °C, °F</p> <p>PROBE CONNECTIONS 4 x HC2 station probe or HC2 insertion probe</p> <p>START-UP TIME 3 s</p> <p>CLOCK Real time clock provides a time stamp for every measurement</p> <p>MEMORY SIZE 4 x 500 Aw values (2,000 Aw values)</p> <p>HW4 COMPATIBLE V3.1 and higher</p> <p>PROBE ADJUSTMENT Single or multiple point for relative humidity & temperature.</p> <p>One or two point temperature</p> <p>AW QUICK FUNCTION Integrated and via HW4 software HW4-P-QUICK-Vx</p> <p>COMMUNICATION INTERFACES Ethernet / USB</p> <p>IP PROTECTION RATING IP21</p> <p>MATERIAL Aluminum, ABS-757</p> <p>FDA / GAMP FDA 21 CFR part 11 / GAMP5</p> <p>CE / EMC CONFORM EMC 2008/108/EG</p> <p>DIMENSIONS 225 x 170 x 70 mm</p> <p>WEIGHT 1100 g</p>	
8	Viscometer	<p>Digital Leveling</p> <p>Start-up Wizard</p> <p>Gel-Timer Functionality</p> <p>Optional Magnetic Coupling Attachment (replaces EZ-lock)</p> <p>Optional Bar Code Scanner</p> <p>Compliant Version</p> <p>Hand-held Scanner for Bar Code Detection</p> <p>Accessory Detection with Bar Code Detection</p> <p>Magnetic Coupling Attachment (replaces EZ-Lock)</p> <p>Compliance to 21CFR Part 11 in Stand-alone and GAMP Compliant</p> <p>Ethernet Connectivity</p> <p>LIMS Connectivity</p> <p>Printing to non-editable PDF</p>	1
9	Lactometer	<p>-Glass Body with Test Tube & Meter Bulb</p> <p>- Used for measuring the amount of water in the milk you drink</p>	1

		- Light Weight & Easy To use - Show purity of milk within a minute	
10	Analytical balance	Units g,ct,oz,dwt,ozt,gsm,tar,t,kg,tm Display LCD or LED Power supply Rechargeable battery 6V/1.3Ah Or AC/DC adaptor. Packing 4pcs/carton 580*370*685mm G.W/N.W:16kg/15kg	1
11	Top loader	Capacity:60 g up to 8.200 g Minimum Display:0.1 mg up to 1 g Linearity:0.06 up to 600 mg (typical value) Calibration Type:Automatic internal, isoCAL	1

AGRONOMYDETAIL ALONG WITH SPECIFICATIONS

	Equipment	Specifications	Quantity								
01	Centrifuge machine:	Low-speed laboratory benchtop centrifuge with swing-out rotor for 12 tubes. Max speed 3600 RPM. Max RCF 2410 G. For standard type of tubes up to 18x110 mm. Designed for use in medical, chemical and other types of labs. CE-certified	01								
02	Hand Refractometer:	Refractometer 30PX Range 0- 85 brix. Having self temperaure adjustment system	01								
03	Seed counter	<table border="1"> <tr> <td>Origin of place</td> <td>China</td> </tr> <tr> <td>Model</td> <td>MSC-A/MSC-B/MSC-C</td> </tr> <tr> <td>Supplier</td> <td>Hangzhou Mindfull Technology Co.,Ltd</td> </tr> <tr> <td>Hits</td> <td>1666</td> </tr> </table>	Origin of place	China	Model	MSC-A/MSC-B/MSC-C	Supplier	Hangzhou Mindfull Technology Co.,Ltd	Hits	1666	01
Origin of place	China										
Model	MSC-A/MSC-B/MSC-C										
Supplier	Hangzhou Mindfull Technology Co.,Ltd										
Hits	1666										
04	Seed Dispensing Maching:	Double Cereal Dispenser Dry Food Container Pasta Kitchen Machine	01								
05	Drying Oven	ISO9001 CE MA Certificates Powder Drying Oven, High Capacity Hot Air Circulating Oven	01								
06	Osmometer 010	SMART SENSOR AR8210 Digital Dissolved Oxygen Meter	01								
07	Gridding Machine:	Alpina SF-2804 Wet and Dry Grinder with Official Warranty									
08	Seed moisture Tester:	GRAIN: Paddy, Rice, Corn, Wheat. Display: 4 digits, 10mm LCD. Range: Moisture Content: 8~20%, Temp.: -10~65oC. Accuracy: Moisture: +1%, Temp.: +0.8. Resolution: 0.1. Operating Temperature: 0~50oC or 32~122oF. Operating Humidity: < 0.8 Battery: 4x1.5AA (um-3). Size: 178 x 68 x	01								

ENTOMOLOGY**DETAIL ALONG WITH SPECIFICATIONS****1. Trinocular microscope with digital camera and software****Trinocular 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 gradations: 2.5 µm)		
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: Trinocular, anti-fungal Eyepiece (AntiFungal): 10X Field Number 20 Tube Inclination: 30° Light Path Selector: None Interpupillary distance adjusting range: 48- 75mm		
Condenser:	Eye Point Adjustment: 370.0 – 432.9 mm 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:

CX23RTFS2 Microscope frame for transmitted microscopy with LED illumination, trinocular tube, a pair of eyepiece 10X with Helicoid adjustment (F.N.20), quadruple revolving nosepiece, right-handle double-plate stage, abbe condenser and plan objectives (4X, 10X, 40X), including field stop adapter, AC adapter, fixing belt for transportation

CXPL100XO Plan achromat objective 100X/1.25, WD 0.13 (spring, oil)

UYCP-12 Power Cord

COVER-015 Dust Cover

(Manufactured in Olympus Factory in China)

Model: CX23LED (Trinocular) Olympus Japan

WITH Microscope Digital Camera

Model: HD1500T

HDMI C-mount camera

6MP Still resolution 3264x1836

2MP Live video 1920x1080 60 fps (frames per second) via HDMI

2MP Live video 1920x1080 30 fps (frames per second) via USB2.0

Video record: 1080p 30fps (frames per second) on SD card or PC

Output: HDMI, USB 2.0, SD Card

1/3" CMOS chip (use .3x C-mount adapter)

Button (1) controls: Exposure, White balance, Gamma, Gain,

Sharpness, Saturation, Contrast

Button (2) controls: Cross line, Image Compare, Image Freeze

OS support: Windows XP and later

Software: IS Capture full parameter control

C-mount Adapter (0.3X) Meiji

2. Thermal Cycler

Specifications: Conventional Thermal cycler, preferably gradient Processing 40 samples or more, Bio-Rad or Eppendorf made.

3. Water bath:

Specifications: Temp: 5°C- to 100°C, Variable speed, capacity: 20L, digital display.

4. Magnetic stirrer with hot plate

Specifications: Ceramic work surface, LCD display

5. Vacuum desiccator

Specifications: Porcelain plate, ground glass flanges, Compatible with any common desiccant. Desiccant included

6. Electric homogenizer

Specifications: Volumes: upto 50 mL, speed up to 30,000 rpm

7. Vortex mixer

Specifications: digital and touch mode. 200-3000 rpm
