



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

Bidding Documents

(This Bidding Documents is in conformance with the Sixth Edition of the Philippine Bidding Documents for the Procurement of Goods)

For the Project

Supply and Delivery of Laboratory Equipment for the Center of Food Technology and Research (APP 2024), Rebid

**With an Approved Budget for the Contract (ABC) of
Twenty Four Million Six Hundred Eighty Thousand Nine
Hundred Ninety Eight and 56/100 Pesos (₱ 24,680,998.56)**

**Invitation to Bid No. Goods 2024-042a
PhilGEPS Reference No.: 11757254**

**July 2020
6th Edition**

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

GFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



Republic of the Philippine
TARLAC STATE UNIVERSITY
Romulo Blvd., San Vicente, Tarlac City
Tel. No.: (045) 982 4630
Website: www.tsu.edu.ph

INVITATION TO BID

For the Project

Supply and Delivery of Laboratory Equipment for the Center for Food Technology and Research (APP 2024), Rebid

Invitation to Bid No. Goods 2024-042a

1. The Tarlac State University, through Special Budget (SB) intends to apply the sum of **One Million Pesos (₱ 24,680,998.56)** to payments under the contracts for the project: **Supply and Delivery of Laboratory Equipment for the Center for Food Technology and Research (APP 2024), Rebid.**

Bids received in excess of the ABC for shall be automatically rejected at bid opening.

Lot No.	Description	ABC, ₱
1.	Production Tools and Equipment	7,453,698.56
2.	Laboratory Tools and Equipment	17,227,300.00
Total ABC:		24,680,998.56

2. The Tarlac State University now invites bids for the project **Supply and Delivery of Laboratory Equipment for the Center for Food Technology and Research (APP 2024), Rebid.** Delivery of the Goods is required within **sixty (60)** calendar days from the receipt of the Notice to Proceed. Bidders must have completed, within the last five (5) years prior to the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

4. Interested bidders may obtain further information from **Tarlac State University** and inspect the Bidding Documents at the address given below during Tuesday to Friday from 7:00 A.M. to 6:00 P.M:

BAC Secretariat
Motorpool and Administration Building

Tarlac State University
 Romulo Blvd., San Vicente, Tarlac City
 Tel. No. (045) 606-8142 / 0998 846 0206
 Email: bacsec@tsu.edu.ph

5. A complete set of Bidding Documents may be acquired by interested Bidders from **February 13, 2025, 2024, to March 5, 2025**, from the aforementioned address upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of:

Lot No.	Bidding Documents Fee, ₱
1.	7,000.00
2.	15,000.00

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Tarlac State University will hold a Pre-Bid Conference on **February 21, 2025 (3:00 P.M.)** at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City, which shall be open to prospective bidders.
7. Three (3) copies of the bid proposals (one original, and additional copy 1 and 2) must be submitted to the BAC which must be duly received by the BAC Secretariat through manual submission at the office address indicated in the bidding documents, on **March 5, 2025 at 2:30 P.M.** Failure of bidders to comply with the said request of additional copies shall not be a ground for disqualification.

Late submission shall not be accepted.

BAC Secretariat
 Motorpool and Administration Building
 Tarlac State University
 Romulo Blvd., San Vicente, Tarlac City
 Tel. No. (045) 606-8142 / 0998 846 0206
 Email: bacsec@tsu.edu.ph

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **March 5, 2025, at 3:00 P.M.**, at the Bids and Awards Committee Conference Room, 3rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below.
10. The Summary of the procurement activities is as follows:

Activities	Date and Time	Venue
Posting to PhilGEPS	February 13, 2025	N/A
Pre-Bid Conference	February 21, 2025 (3:00 PM)	BAC Conference Room, 3 rd Floor, Motorpool and Administration Building, Tarlac State University, Romulo Blvd., San Vicente, Tarlac City
Deadline of Submission of Bids	March 5, 2025 (2:30 PM)	
Opening of Bids	March 5, 2025 (3:00 PM)	

11. The Tarlac State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 Revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

Ms. Jhenna Micah A. Manankil
BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8142 / 0998 846 0206
Email: bacsec@tsu.edu.ph

(SGD) ATTY. WILMARK J. RAMOS, DBA
BAC Chairperson – Goods and Services

Section II. Instructions to Bidders

1. Scope of Bid

1.1. The Tarlac State University wishes to receive Bids for the project: **Supply and Delivery of Laboratory Equipment for the Center for Food Technology and Research (APP 2024) Rebid**, with identification number **Invitation to Bid No. Goods 2024-042a**.

1.2. The procurement project (referred to herein as “Project”) is composed of **two (2) lots** the details of which are described in Section VII. Technical Specifications.

2. Funding Information

2.1. The GOP through the source of funding as indicated below for **2025** in the amount of **₱ 24,680,998.56**

2.2. The source of funding is the **Special Budget (SB)**

3. Bidding Requirements

3.1. The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

3.2. Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.

3.3. The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the **BDS**, with a value, adjusted to current prices using the PSA’s CPI, that is **at least equivalent to:**

**fifty percent (50%) of the ABC for Lot No. 1, and
fifty percent (50%) of the ABC for Lot No. 2.**

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that subcontracting is not allowed

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and at the address indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

10.2. The Bidder's **SLCC** as indicated in **ITB** Clause 5.3 should have been completed **within five (5) years** prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII. Checklist of Technical and Financial Documents**.

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

- a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII. Technical Specifications**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until **July 2, 2025**. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

15.1. Each Bidder shall submit one copy of the first and second components of its Bid.

15.2. The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

15.3. If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be

digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

19.3. The descriptions of the lots or items are indicated in **Section VII. Technical Specifications**, and the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

19.4. The Project shall be awarded as one project having two lots that shall be awarded as separate contracts.

19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a **non-extendible period of five (5) calendar days** from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

ITB Clause									
5.3	For this purpose, contracts similar to the Project shall be the supply and delivery of similar goods comprising the Project.								
7.1	No further instructions.								
12	The price of the Goods shall be quoted DDP Tarlac City, Philippines or the applicable International Commercial Terms (INCOTERMS) for this Project.								
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p style="margin-left: 40px;">a. The amount of not less than two percent (2 %) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p style="margin-left: 40px;">b. The amount of not less than five percent (5 %) of ABC if bid security is in Surety Bond.</p>								
19.3	<p>The ABC for the project:</p> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th style="text-align: center;">Lot No.</th> <th style="text-align: center;">ABC, ₱</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td style="text-align: right;">7,453,698.56</td> </tr> <tr> <td style="text-align: center;">2.</td> <td style="text-align: right;">17,227,300.00</td> </tr> <tr> <td style="text-align: center;">Total ABC</td> <td style="text-align: right;">24,680,998.56</td> </tr> </tbody> </table>	Lot No.	ABC, ₱	1.	7,453,698.56	2.	17,227,300.00	Total ABC	24,680,998.56
Lot No.	ABC, ₱								
1.	7,453,698.56								
2.	17,227,300.00								
Total ABC	24,680,998.56								
20.2	No further requirements.								
21.2	No further requirements.								

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC, Section IV. Technical Specifications** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the

defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery terms applicable to this Contract are delivered to Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements.</p>
	<p>Packaging –</p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging 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.</p> <p>The packaging, 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 below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight Any special lifting instructions Any special handling instructions Any relevant HAZCHEM classifications</p> <p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p>
	<p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p>

	<p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p>
	<p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
4	<p>The inspections and tests that will be conducted are: visual and sensory inspection and test.</p>

Section VI. Schedule of Requirements

The delivery date for the Goods covered by the Contract shall be within sixty (60) calendar days upon receipt of the Notice to Proceed.

Section VII. Technical Specifications

Item No.	Description
Lot No. 1 – Production Tools and Equipment	
1.	Commercial Vertical Gas Boiler, Rated Steam Capacity (t/h): 1 Rated steam pressure (Mpa): 0.4/0.7 Rated steam temperature (°C): 151 Fuel consumption (Nm ³ /h): 78, 65 and 28 Weight (Kg): 2561 Size(mm): 2468*φ1358 with 1 year warranty with installation
2.	Commercial Industrial Bubble Fruit and Vegetable Washing Machine, warranty of core components:1 Year Core Components: Motor Model Number: 600-800-1000-1200 Weight: 800 KG Voltage: 220V/380V Power: 3.75 Dimension(L*W*H): 4000*1300*1400mm Washing type: Water Bubble Washing Capacity 200-2000 kg / h Function Air Bubble Water Washing Machine with 1 year warranty with installation
3.	Full Automatic Collagen Drink Fruit Juice Horizontal Filling Machine Premade Bag Doypack Juice Soda Liquid Packing Machine, Function FILLING, Sealing Packaging Type Stand-up Pouch, Bags, Pouch Packaging Material Plastic, Wood Other attributes Production Capacity 25bag/min warranty 2 years Key Selling Points Long Service Life Machinery Test Report Provided Video outgoing-inspection Provided warranty of core components 1 Year Core Components Motor, PLC, Engine Type Multi-Function Packaging Machine Condition New Driven Type Pneumatic Voltage 110V/220V/380V/415V Dimension(L*W*H) 2000*800*1500mm Name Horizontal pouch packing machine Material Stainless Steel 304/316 Main Function Filling, sealing, date printing Bag type Stand-up bag, zipper bag, etc Bag material PE, Laminated film , paper bag Bag sealing type Heat sealing, sewing, glue brushing Speed 25bags/min Bag width 70-280mm

	<p>Bag length 80-440mm with 1 year warranty with installation</p>
4.	<p>Automatic Liquid Packaging Machine Sachet Bag Water Filling Packing Machine, Production Capacity: 20-40bags/min, Weight (KG): 300 warranty: 1 Year, Electric Voltage AC 220V/50HZ 110V/60HZ, Dimension(L*W*H) 730*750*1700mm Packing range: 5-300ml Packing Film Composite material: OPP/OPP,OPP/CE,MST/PE/PET/PE Forming bag dimension L40-200mm W25-150mm (can be customized) Sealing type: Three sides sealing, back sealing Machine material: Stainless steel Measure method: Piston Advantage: Stable working Control system: PLC+touch Screen with installation</p>
5.	<p>High Speed Automatic Bottle Filling Machine, Machine Model: ZS-AFC28, Voltage: 220V/110V 50-60Hz, Power: 3kW, Production Speed: About 40 bottles/min (depending on bottle size and filling materials), Filling Range: 10-1000ml (can be customized), Filling Pump: Peristaltic Pump, Max Flow rate: 6L/min (based on water), Suitable Bottle Size: Can be Customized, Bottle Cap Size: Can Be Customized, Air Pressure: 0.5-0.7 MPa, Machine Size: 2050*1800*1500mm, Packaging Weight: About 725kg (Filling Machine) About 78kg (Vibratory Bowl), Packaging Size: About 2080*1000*1960mm (Filling Machine) About 1020*610*580mm (Vibratory Bowl) with installation</p>
6.	<p>Full-Automatic Planetary Agitator Jacketed Kettle, Model: 2GL200 (200L Capacity), Pot Diameter: 1000mm, Depth: 470mm, Agitation Power: 2.2kw, Hydraulic Power: 1.1kw, Volt/Hz: 380v50hz, Heating: Steam, Gas and Electric. with 1 year warranty with installation</p>
7.	<p>Noodle Maker, stainless steel; 80kg/h High Efficiency Automatic Noodle Macaroni Spaghetti Maker Machine Pasta Extruder Making Machine; can do noodle, small shell, five-pointed star, small screw, fruit and vegetable noodle, crispy rice, pizza roll, hollow pattern, conch noodles, cat ears, etc.; capacity: 60-80kg/h; size: 70*48*90cm; net weight: 100kg; incl. factory calibration certificate</p>
8.	<p>Universal Pin Mill Grinder Stainless Steel Hammer Mill Herb Spice Pulverizer Machine, Output (kg/h) 20 - 1000 kg/h Feeding Size (mm) 6 - 15 mm Output Size (mesh) 12 - 120 mesh Other attributes Application Chemicals Processing, Food Processing, Condition New, Type Grinder Place of Origin China Weight (KG) 600 KG, warranty 1 Year</p>
9.	<p>Table-top Pulverizer, stainless steel; capacity: 5-8kgs/hr; high speed grinding; full copper motor; different size grinding; incl. factory calibration certificate</p>

10.	Fruit and Vegetable Juice Extractor Machine, industrial type; multi-purpose; automatic fruit juice screw press; with food grade pushing rod; detachable stainless steel juicing net inside the machine; heavy duty base; incl. factory calibration certificate with installation
11.	Food Processor, multipurpose/3-in-1; four interchangeable stainless-steel blades for slicing: fine, coarse, shredding, and chopping; bowl & housing material: plastic; blade material: stainless steel; safety locking lid; non-slip feet; two speed setting
12.	Extruder, Interchangeable Plates; Material: Stainless Steel 304; Voltage: 220V; Dimension: 70x47x90cm; Weight 120kg; Power 3000W; With one year warranty; With product training
13.	Can Seamer, semi-auto bench top can seamer; for 12oz,16oz, 330ml, 500ml cans; power: 250W 24V DC;rated speed: 3300 RPM; fast seaming process; incl. calibration certificate; With one year warranty
14.	Microwave, -25L capacity -Easy clean coating (Antibacterial) -Stable turntable -Dimension (LxWxH): 369x476x272mm -Smart Inverter -Power Output 1000W -Required power supply 230V/60Hz -Cooking Modes: Inverter Defrost; Melt; Proof; Soften; Warm -With one year warranty
15.	Electric Kettle, -Fast boiling and auto-off feature -Stainless Steel concealed Heater -360° Rotating Stainless Steel Body -Weight: 0.77kg -Dimensions: L 13.97xW 20.57x 20.06cm -1 Liter Capacity -1 Year warranty on parts and service -Push button lid
16.	Deep Fryer, -The whole machine adopts a detachable design. The lid, basket, handle, tank, heater, and oil residue partition can all be disassembled for easy cleaning; simple installation -Adjustable temperature range: 60 to 200°C (140 to 392°F), Suit for 110v, 60Hz, Power: 2500W each fryer, total: 5000W; oil can be heated quickly -The whole machine is designed with two independent heaters, and the capacity of each fryer is 6L, a total of 12L. Two independent power supplies can work at the same time, or use only one of them, which is convenient to control and save power. Package size:about 22.2*17.9*12.2inch (56.5*45.5*31cm) -Package included: 1x stainless steel frame; 1x manual; 2xPCS electric fryer controller; 2xPCS stainless steel tank; 2xPCS stainless steel basket; 2xPCS handle; 2xPCS stainless steel lid; 2xPCS stainless steel partitions -With one year warranty
17.	Rotary Oven, dimensions: (H*W*D) 2300x1800x1900 mm; weighing 1300 kg; Voltage: 400 Volt; Power: 48 Kw; Large baking capacity: containing baking Frame, baking 32pans each time; Saving the cost: stainless steel tubes and imported electric burner; Extra-thick health insulation material; incl. calibration certificate; with one year warranty

	with installation
Lot No. 2 – Laboratory Tools and Equipment	
18.	<p>Vacuum Oven, Performance Data Temperature Heating-up time to 100 °C [min] 80 Temperature fluctuation [± K] 0.1 Temperature range +10 °C above ambient temperature to [°C] 220; Temperature range +9 °C above ambient temperature to [°C] 220; Temperature variation at 100 °C [± K] 1.2 Vacuum Data; Leak rate [bar/h] 0.01 Electrical data; Nominal power [kW] 1.4; Phase (Nominal voltage)1~ Power frequency [Hz] 50/60 Rated Voltage [V] 200...230 Unit fuse [A] 8 Connections; Compressed air connection for pressure- encapsulation [NW] 5; Measuring access port with small flange [DN mm] 16; Universal connection for air / inert gas with flow limiter; thread (RP") 3/8 Vacuum connection with small flange [DN mm] 16 Doors; Unit doors 1; Housing dimensions not incl. fittings and connections; Depth net [mm] 461; Height net [mm] 815; Width net [mm] 638 Internal Dimensions; Depth [mm] 343; Height [mm] 400; Width [mm] 400 Measures; Interior volume [L] 55; Load per rack [kg] 20; Net weight of the unit (empty) [kg] 95 Permitted load [kg] 60; Viewing window height [mm] 420 Viewing window width [mm] 420; Wall clearance back [mm] 100; Wall clearance sidewise [mm] 70 Environment-specific data Sound-pressure level [dB(A)] 40 Fixtures Number of shelves (std./max.) 1/5 With Vacuum Pump Technical Specifications: Max. temperature of liquid media: 5 – 40 °C Flow Rate 22 L/min Maximum Viscosity < 150 cSt Pump Flow 22 l/min Operating Conditions Maximum Vacuum 100 mbar Operating Current 0.9 A Operating Pressure 1 bar Power Requirements Input Wattage 130 Watts Line Frequency 60 Hz Line Voltage 115 V Power Requirements 115 V - 60 Hz Product Information Type of Pump Vacuum Pump Includes: -AVR 5KVA -With vacuum pump included - With one year warranty - With calibration certificate - With personnel training</p>
19.	<p>Drying Oven Convection, Specifications: Temperature range [°C] 60...230 Heating-up time to 150 °C [min] 36 Recovery time after 30 seconds door open at 150 °C [min] 19 Electrical data Nominal Voltage [V] 230 Power frequency [Hz] 50/60 Nominal power [kW] 0.8 Phase (Nominal voltage) 1~</p>

	<p>Measures</p> <p>Interior volume [cu.ft.] 1</p> <p>Net weight of the unit (empty) [lbs] 49</p> <p>permitted load [lbs] 55</p> <p>Load per rack [lbs] 22</p> <p>Wall clearance back [in] 6.3</p> <p>Wall clearance sidewise [in] 3.94</p> <p>Internal Dimensions</p> <p>Interior width [in] 15.76</p> <p>Interior height [in] 11.03</p> <p>Interior depth [in] 9.85</p> <p>Doors</p> <p>Unit doors 1</p> <p>Housing dimensions not incl. fittings and connections</p> <p>Width net [in] 22.85</p> <p>Height net [in] 15.96</p> <p>Depth net [in] 16.74</p> <p>Fixtures</p> <p>Number of shelves (std./max.) 2/4</p> <p>Benefits:</p> <p>Uniform drying conditions thanks to APT.line™ technology</p> <p>Identical test conditions throughout the chamber interior independent of sample size and quantity</p> <p>Outstanding thermal insulation saves operation costs</p> <p>MAIN FEATURES:</p> <ul style="list-style-type: none"> • Temperature range: 60 °C to 230 °C • Adjustable exhaust air flap • Hydro-mechanical thermostat • Class 1 temperature limitation device (Model E028-230V-T) • Timer 0 – 120 min • 2 chrome-plated racks- With one year warranty - With calibration certificate - With personnel training
20.	<p>Air Oven,</p> <ul style="list-style-type: none"> • Temperature range: +5 °C above ambient temperature to +300 °C • Force convection • Controller with LCD display • Electromechanical control of the exhaust air flap • 2 chrome-plated racks • Stackable • Class 2 integrated independent adjustable temperature safety device <p>(DIN 12880) with visual alarm • Ergonomic handle design • USB port for recording data</p> <ul style="list-style-type: none"> • Best energy efficiency on the market • Excellent temporal and spatial temperature accuracy • USB connection for recording data <p>Technical Specifications</p> <p>Performance Data Temperature; Heating-up time to 150 °C [min]18; Recovery time after 30 seconds door open at 150 °C [min]4; Temperature fluctuation at 150 °C [± K] 0.3; Temperature range +10 °C above ambient temperature to [°C] 300; Temperature variation at 150 °C [± K]1.7; Air change data; Air change (approx.) at 100 °C [x/h]32 Electrical data; Nominal power [kW] 1.3 Phase (Nominal voltage)1~; Power frequency [Hz] 50/60 Rated Voltage [V] 230 Unit fuse [A] 6.3 Doors; Unit doors 1 Housing dimensions not incl. fittings and connections; Depth net [mm] 605; Height net [mm] 735 Width net [mm] 710 Internal Dimensions; Depth [mm] 385; Height [mm] 550 Width [mm] 550 Measures; Interior volume [L] 116 Load per rack [kg] 30; Net weight of the unit (empty) [kg]; Permitted load [kg] 150 Wall clearance back [mm] 160 Wall clearance sidewise [mm] 100 Environment-specific data</p>

	57; Energy consumption at 150 °C [Wh/h]340; Sound-pressure level [dB(A)] 4 Fixtures; Number of shelves (std./max.) 2/5 - With one year warranty - With calibration certificate
21.	Laboratory Metal Trays, Color Metal Silver Material Stainless Steel Product Dimensions 12"L x 9"W x 1"H Is Dishwasher Safe Yes Material Type Free Chemical Free Item Weight 4.69 pounds
22.	Air Compressor, portable cordless; air compressor kit; 2.5 Gallons; 140 PSI; brushless motor with a heavy-duty oil-free pump; with battery & charger; air delivery of 1.0 SCFM at 90 psi; drive up to 970 nails per charge; air flow capacity: 1 cubic feet per minute; maximum pressure: 140; battery type: lithium ion; With one year warranty
23.	Metal Tray, - Material: Stainless Steel 304 - Dimension (LxWxH): 12"x6"x1" - Bottom Inside Length: 11" - Bottom Inside Width: 6" - Seamless
24.	Rubber Tongs, -Material: Silicone -Style: non stick -Dimensions: 13.78x1.77x1.69 inches -Heat resistant -Easy to lock -Set of 2-9 pcs
25.	Kitchen Scissors, -Material: Stainless Steel -Dimension: 8.73"Lx3.62"W -Blade Length: 3.82 inches -Handle Material: Stainless Steel
26.	Kitchen Knife Set, -Set Includes: 1x 8" Chef Knife, 1x 8" Slicing Knife, 1x 8" Bread Knife, 1x 7" Santoku Knife, 1x 5" Santoku Knife, 1x 5" Utility Knife, 1x 3" Paring Knife, 6x 5" Steak Knife, 1x Utility Scissors, 1x Acacia Block -High Carbon Blades: Made with premium 7Cr17 High Carbon Steel that provides a razor-sharp professional quality blade. The steel contains 0.6-0.75 carbon, making it two times tougher than other knives in its class with a Rockwell Hardness of 57-58 -Comfort & Control: The knives are integrated with a soft and comfortable Pakka Wood handle, creating the perfect grip. The ergonomic shape enables the right balance between the handle and the thin blade, ensuring ease of movement -Block: Constructed from robust and durable Acacia Wood, the block features deep slots designed to safeguard the sharp blades, ensuring both protection and secure storage.
27.	Spoon And Fork Set, -Material: 18/10 Stainless -8" Dinner Fork x 8 -6.5" Teaspoon x 8
28.	Stainless Bowl, -Material: Stainless Steel -Dimension: 6" Height, 14" Diameter

29.	<p>Chopping Board, -Material: Polypropylene Plastic -Product Dimension: 14"Lx11"Wx0.5Th -Color: White -Easy to clean</p>
30.	<p>Kitchen Hood, -90cm island hood -Stainless Steel -3 speed push button control -Washable aluminum grease filter -900m³/h max. air capacity -150mm diameter ducting outlet -With one year warranty</p>
31.	<p>Stainless Table, -Material: Stainless steel 304 -Fabricated -Dimension: 60"Wx36"D -With under shelf -With one year warranty</p>
32.	<p>Stainless Table with Sink, -Material: Stainless Steel 304 -Sink Dimension: 12in depth; 16in Length; 20in width -Table Dimension HxLxW: 40.5"x60in"x30" -Includes Faucet -Includes Drainboard -Includes Back Splash -Back Splash Height: 5" -With under shelf</p>
33.	<p>Reusable Ice Packs, -Sturdy -Capacity: 200ml -Re freezable -Sheets is refrigerant made and non toxic materials -Heavy duty washable plastic material -20 pieces per pack</p>
34.	<p>Cooking Kitchen Utensil Set, -14 pcs Heat resistant set (Turner, Tongs, Spatula, Spoon, Brush, Whisk, Wooden Handle Grey gadgets with holder for non stick cookware -Heat resistant, Non melting, Wooden handle -Easy to clean -Food grade silicone, odorless</p>
35.	<p>Dinner Plate, -Material: Ceramic -Color: White -Microwave, Oven and dishwasher safe -Shape: Round -Dimension: 10.5"Lx10.5"Wx1"H -Easy to clean -Includes 12 pieces per pack</p>
36.	<p>Anti Vibration Tables, -Stainless Steel -Balance performance maximised by elimination of vibrations -Custom designed elastomeric isolators built into worktop -Ideal for larger balances thermal analyser and similar instruments</p>

	<ul style="list-style-type: none"> -With one year warranty -Dimension: 30"H; 48"W -Capacity: 25kg
37.	<p>Central Laboratory Table,</p> <ul style="list-style-type: none"> -Dimension (mm): 1200x3600x800 -Material: Top board/Cellon (Phenolic resin composit), Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/ Steel square pipe(melamine baking coating) with legs/ level adjuster with installation
38.	<p>Laboratory Table (Side),</p> <ul style="list-style-type: none"> -Dimension (mm): 750x3600x800 -Material: Top Board: Cellon (Phenolic Resin Composit); Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/Steel square pipe (melamine baking coating) with legs/level adjuster with installation
39.	<p>Jar Lifter,</p> <ul style="list-style-type: none"> -Measures: 8.75" x 3" x 1.5" / 22cm x 7.5cm x 4cm -Vinyl coated grip clamps securely on jar tops -Material: Stainless
40.	<p>Sensory Booths with sink (Modular),</p> <ul style="list-style-type: none"> -1.00mWx1.00mLx2.10mH Sensory Booth fabricated with 3/4"thk. Laminated Marine Plywood - Plain White Finish (Non-glossy) including wood edging; with 0.34mWx0.40mH Counter Opening to be covered with vertical sliding door; Equipped with 1 - Acid resistant polypropylene sink with drainboard and 1-WSF Gooseneck Water Faucet complete with trap, drain fittings; 10pcs (5pcs back-to-back) - 6500 K temperature lighting that can provide colored light sources complete with wirings and switches; and complete accessories with installation
41.	<p>Chest Freezer,</p> <p>HD Inverter Chest Freezer</p> <p>Dual Function Technology (Freezer or Chiller)</p> <p>Solid Top with Glass Cover Inside</p> <p>Digital Temperature control w/ LCD Display</p> <p>Galvanized Interior</p> <p>LED Light</p> <p>Recessed Handle with Key Lock</p> <p>Roller Feet</p> <p>Dimension (HxWxD): 85 x 112 x 70 cm</p> <p>Warranty:</p> <ul style="list-style-type: none"> 1 Year on Service 2 Years on Parts 5 Years on Compressor
42.	<p>Freezer,</p> <p>43 cu. Ft. upright freezer; 8 adjustable shelves; Full Stainless Steel 304 (Body and Door); Digital Temperature Control; Roller Feet with Stopper; LED Lighted Interior; Key lock; Dimension (HxWxD): 200x134x81cm; with one year warranty; with calibration certificate.</p>
43.	<p>Refrigerator,</p> <ul style="list-style-type: none"> -Dimensions: L 63.7 x W 55.5 x H 163.5 (cm) -9.1 cu.ft. Two Door No-Frost Refrigerator -Digital Inverter Compressor -All-Around Cooling System

	<ul style="list-style-type: none"> -EZ Slide-out Shelf -Adaptive Defrost Control -12 Hours Cool Pack -Deodorizing Filter -1 Year Warranty on Parts & Service -10 Years Warranty on Compressor
44.	<p>Induction Cookware Set,</p> <ul style="list-style-type: none"> -Material: Aluminum -Color: Matte Black -Size: 10 Piece -Handle Material: Stainless Steel -Dishwasher Safe: Yes -Compatibility Option: Electric, Glass-Ceramic, Gas, Induction stovetop suitable -Closure Material: Glass - Included Components: 1.5-Quart Saucepan with lid, 3-quart saucepan with lid, 6-quart stockpot with lid, 11.25-inch grill pan, 8.25-inch frying pan, 10-inch frying pan with lid
45.	<p>Gas Range,</p> <ul style="list-style-type: none"> -Dimension(cm)(HxWxL): 88x84x57 -80cm range -4 gas burners with piezo ignition + 1 hotplate with pilot light indicator -Gas Thermostat Oven with Gas Grill -Rotisserie -Tempered Glass Top Cover -#304 Stainless Steel Body -20 amperes -49 Liters Gas Oven -Oven Dimension (mm): 320Hx420Dx370W -1500 watts -Type B -2flat + Ground Plug
46	<p>Induction Stove,</p> <ul style="list-style-type: none"> -Dimension: 67.4 x 43.4 x 9.7 Centimeters -Included Components: 1 double induction cooktop -Easy to clean -Dual Heat sensor -With one year warranty -Total Watts-3200 W (Left Cook Station-2000W+Right Cook Station-1200W)
47.	<p>Utility Cart,</p> <p>Product Dimensions 18.11"D x 30.71"W x 36.23"H</p> <p>Material Stainless Steel</p> <p>Color Stainless Steel</p> <p>Special Feature Stain Resistant Heavy-Duty Sturdy</p> <p>Stainless Steel - Crafted with precision from high-quality stainless steel, this heavy-duty utility cart is the epitome of strength, durability, and functionality. (Note: the handle is made of aluminum.)</p> <p>Impressive Capacity - With a remarkable weight capacity of up to 1100 pounds, our heavy duty stainless steel cart can effortlessly transport heavy items, providing you with reliability.</p> <p>Strengthened Wheel - Equipped with reinforced wheels, this rolling service cart ensures smooth maneuverability even under heavy loads, making it an ideal choice for warehouses, workshops, and more.</p> <p>Convenient Handle - Designed for ease of use, the built-in handle allows for effortless steering and control, reducing strain on your workforce during transport.</p> <p>Safety Fence - A safety fence surrounds the tray, preventing items from accidentally falling off while in transit. This feature enhances workplace safety and protects your</p>

	<p>items.</p> <p>3-Tier Capacity - With 3 spacious tiers, this service cart offers ample storage space for your tools, equipment, or materials, helping you stay organized and efficient.</p> <p>Easy Installation - Assembly is a breeze, thanks to the stainless steel tool cart's straightforward installation process. Spend less time setting up and more time putting it to work.</p> <p>Best Service - We are responsible for the quality of this rolling stainless steel utility cart, please feel free to contact us if there is any quality problem, we will reply within 24 hours.</p>
48.	<p>ATP Luminometer,</p> <ul style="list-style-type: none"> -Detects: EXC Surface Test, ≥ 0.5 femtomole ATP. H2O Test, ≥ 1.0 femtomole ATP. -Number of stored sample plans: 200 -Number of results stored 2000 -Display: LCD Touch Screen -Power Source: Battery Operated -Includes: Power supply, USB cord, Base, Global Power Supply Adapters -With one year warranty -With product training -With calibration certificate
49.	<p>Anaerobic System,</p> <p>-This anaerobic jar is specially formulated for temperature stability and durability. It's unbreakable, lightweight, transparent and, of course, autoclavable. Double screw clamp, coupled with the patented Quad Ring, ensures a more positive seal, superior to conventional O-rings. It also doubles as a handy carrying handle. The 3/8" thick anodized aluminum lid won't warp, and it's guaranteed to resist cracking or breaking for ten years.</p> <ul style="list-style-type: none"> -With one year warranty
50.	<p>Cooled Incubator</p> <p>Technical Specifications:</p> <p>Performance Data</p> <p>Temperature</p> <p>Temperature range °C -10...100</p> <p>Temperature variation at 37 °C [\pm K] 0.2</p> <p>Temperature fluctuation at 37 °C [\pm K] 0.1</p> <p>Recovery time after 30 seconds door open at 37 °C [min] 2</p> <p>Electrical data</p> <p>Rated Voltage [V] 230</p> <p>Power frequency [Hz] 50 /60</p> <p>Nominal power [kW] 0.7</p> <p>Unit fuse [A] 10</p> <p>Phase (Nominal voltage) 1~</p> <p>Interior volume [L] 115</p> <p>Net weight of the unit (empty) [kg] 105</p> <p>Permitted load [kg] 50</p> <p>Load per rack [kg] 20</p> <p>Wall clearance back [mm] 100</p> <p>Wall clearance sidewise [mm] 100</p> <p>Internal Dimensions</p> <p>Width [mm] 600</p> <p>Height [mm] 480</p> <p>Depth [mm] 400</p> <p>Inner doors 1</p> <p>Unit doors 1</p> <p>Housing dimensions not including fittings and connections</p> <p>Width net [mm] 835</p> <p>Height net [mm] 1025</p>

	<p>Depth net [mm] 650 Environment-specific data Energy consumption at 37 °C [Wh/h] 75 Sound-pressure level [dB(A)] 49 Number of shelves (std./max.) 2/5 Features *Temperature range: -10 °C to +100 °C</p> <ul style="list-style-type: none"> • APT.line preheating chamber technology • Up to 30% lower energy consumption compared to the previous model • Cooling with compressor cooling unit • Adjustable fan speed • Controller with time-segment and real-time programming • Inner door made of tempered safety glass • 2 stainless steel racks • Stackable • Class 3.1 independent temperature safety device (DIN 12880) with visual and acoustic alarm • Computer interface: Ethernet <p>-5KVA AVR -With one year warranty -With product training</p>
51.	<p>Sample Homogenizer, Technical Specifications: Motor rating input 800 W Motor rating output 500 W Volume range (H₂O) 0.001 - 2 l Viscosity max. 5000 mPas Speed range 3000 - 25000 rpm Speed deviation 1 % Speed adjustment stepless Speed display LED Noise without element 75 dB(A) Extension arm diameter 13 mm Extension arm length 160 mm Process type batch Permissible ON time 100 % Dimensions (W x H x D) 87 x 271 x 106 mm Weight 2.5 kg Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80% (up to 31°C), decreasing linearly to max. 50 (@40°C) Protection class according to DIN EN 60529 IP 20 Voltage 220 - 240 V Frequency 50/60 Hz Power input 800 W T25 Digital Package contains: 1 * Disperser 1 * Dispersing Element Ø18 mm 1 * Plate stand, H800 mm 1 * Boss head clamp, clamping range Ø6-16 mm</p> <p>-With one year warranty -With calibration certificate -With product training</p>
52.	<p>Pipettors Set with Corresponding Tips and 2 units Linear Stand Single Channel Mechanical Pipettor 0.5 to 10ul – 728020 (1 unit) 10 to 100ul – 728050 (1 unit)</p>

	<p>20 to 200ul – 728060 (1 unit) 100 to 1000ul – 728070 (1 unit) 500 to 5000ul – 728080 (1 unit) 1000 to 10,000ul – 728090 (1 unit) 8 channels Mechanical Pipettor 30-300ul – 728140 (1 unit) Tips: 10 ul tips – 790010 (1 Box) 200 ul tips – 790200 (1 Box) 350 ul tips – 790350 (1 Box) 1000ul tips – 791000 (1 Box) 5000ul tips – LH-780304 (50 tips per rack - 10 racks) 10,000ul tips – LH-780316 (bulks in 250) Accessory: Linear Stand – 725620 (2 units) Descriptions: - Easy volume adjustment with click stop system - Large display for easy reading of volume - For both right- and left-handed users - Color coded for easy matching of fitting tips - Materials have high chemical and UV resistance to secure long life-time of the pipette - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools - Safe-cone filters available for models above 10µl for extra protection when using non-filtered tips - With light tip ejector - Fully autoclavable without the need for disassembly - Superior Ergonomics - designed handle and finger hook - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI) - With click stop as volume locking - Length 239 mm - Weight of 82 grams</p>
53.	<p>Media Bottle, Material Borosilicate Glass Bottle Type Round Color Red Capacity 500 Milliliters Special Feature Airtight Product Dimensions 1.7"W x 6.9"H Product Care Instructions Hand Wash Only Number of Items 8 Reusability Reusable Shape Round Finish Type Translucent Unit Count 8.0 Count Manufacturer Pastein Item Weight 7.09 pounds Size 500ml Finish Translucent Special Features Airtight</p>

54.	<p>Laboratory Sampling Spoon, -Double headed design shapes/combinations to meet different needs. Convenient for transferring materials to different diameter containers, handling powders or granular materials. Resistant to deterioration from contact with boiling water, acids, bases, and most solvents, which make them ideal for use with a wide range of compounds. With these micro spatulas, it is easy to scoop small quantities from deeper bottles and jars with small openings. Lab spatulas feature long handle for taking materials out of deep bottles and cans. Square head spatula with a flat or spoon end are mainly for transferring or handling materials, while the pointed head spoon with a scoop or spoon end are convenient to mix ingredients together in deep containers. Safe, effective and convenient, these tools are used in various sectors including health and wellness, mechanical and tech servicing, beauty and skin care, processional laboratories, taxidermy, etc. Manufactured from AISI 420 surgical grade stainless steel. Provides high degree of flexibility while conducting clinical procedures. Smooth finish for aesthetic and corrosion resistance. Rust prevention procedure. Tools are rust proof and will hold up to repeated use. Product Conforms to ISO 9001, CE-Quality Mark, ISO 13485, FDA and other Quality Standards. -Overall length: 9" -Pack of 6</p>
55.	<p>Babcock Fat Extraction set-up, 5 selectable modes for centrifugation (Gerber test, Röse-Gottlieb, Babcock, Solubility and Free Mode) Free Set-up (Free Mode) of - Speed/RCA** (adjustable from 600 to 1200 rpm, the corresponding RCA is shown simultaneously) **RCA = Relative Centrifugal Acceleration - Temperature (adjustable from amb. temp. to 68°C) - Centrifugation time (adjustable from 1 to 99 minutes) - Centrifugation drum of stainless steel - Security lid locking device - Automatic unbalance switch off - Electrical brake - Connection: 230V/50...60 Hz/1200 VA Weight (empty): 26kg - Full height: 460 mm - Operation height: 370 mm - Speed range: 600...1200 UpM - Temperature range: Amb. temperature to 68°C Includes: Rotor (up to 18 Babcock-bottles) Babcock-bucket – 18 pcs - With one year warranty - With calibration certificate - With training</p>
56.	<p>Circulating Water Pump, Working Temperature Range °F -4° to 275°; Working Temperature Range °C -20° to 135°; Nominal Cooling Capacity @ +20C (W) 200 Reservoir Capacity (gallons) 1.85; Reservoir Capacity (liters) 7; Reservoir/Tank; Material Stainless Steel; Reservoir Cover Included; DuraTop Yes; LidDock Yes; Cleanable Air Filter Yes; Working Access (L x W x D) (inches) 6.18 x 5.59 x 5 in; Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm; Temperature Stability °F±0.13; Temperature Stability °C ±0.07°; Display 3.25" LCD;</p>

	<p>Display Resolution (Set) 0.1; Display Resolution (Read) 0.1; Pump Type Pressure; Pump Speed One; Process Connections 1/2" O.D.; Barbed Tubes Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection; Failsafe Heater Control Yes; Low Liquid Level Protection Yes; Reservoir Drain Yes; Maximum Ambient; Temperature °F 95° Maximum Ambient Temperature °C 35° Overall Dimensions (L x W x H) (inches) 21.3 x 8.7 x 25.4in; Overall Dimensions (L x W x H) (cm) 54.1 x 22.1 x 64.5cm; Refrigerant R134a; Environmental Compliance RoHS, WEEE; Shipping Weight (pounds) 84.0; Shipping Weight (kilograms) 38.1; For 60 Hz Only: Maximum Pressure (psi) 2.3; Maximum Pressure (bar) 0.16</p> <p>Maximum Pressure Flow Rate (gpm) 3.60 Maximum Pressure Flow Rate (l/min) 13.5</p> <p>Cooling Capacity @ -20°C (W) 30 Cooling Capacity @ 0°C (W) 120 Cooling Capacity @ +20°C (W) 200 Cooling Capacity @ +100°C (W) 200</p> <p>Included Hardware Fitting Kit for External Applications Heater Wattage 1100 Electrical Requirements (VAC/Hz/Ph/A) 120/60/1/12 Regulatory Approvals ETL</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With training
57.	<p>Dean And Stark Distillation Apparatus, Features</p> <ol style="list-style-type: none"> 1.The instrument adopts solid state voltage regulator, stepless to change temperature, easy to accommodate temperature. 2.The instrument comprises single element. 3.Voltage regulator outputs without contact, sparkle and noise and it is stable. 4.Voltmeter is used to show the voltage changed by the solid-state voltage regulator, convenient to direct-view. 5.Reasonable structure with beautiful shape and safe operation. <p>Technical Specifications:</p> <ol style="list-style-type: none"> 1.Rated voltage: AC220V±10% 50Hz 2.Heating Power:0~650W (Continuously adjustable) 3.Temperature control mode: Solid-state voltage regulator (stepless) 4.Regulator display: AC Voltage Meter 0~300V 5.Ambient requirement: Temperature: 10~40oC; Humidity≤85% <ul style="list-style-type: none"> - With one year warranty - With calibration certificate
58.	<p>Hydrometers, Descriptions</p> <p>Available in a variety of models measuring Baume of syrups and other liquids heavier than water in various ranges from 0° to 70°, these plain form hydrometers are used in the chemistry, pharmacology, food and beverage, starch industries and more.</p> <ul style="list-style-type: none"> - Lead free ballast and glass - Individually serialized - Temperature standardization: 60 °F (15 °C) - Hand inspected by our U.S. quality team <p>Certifications: Traceable to NIST.Packaging: Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy.</p> <p>Specifications:</p> <p>Range 0 – 70° Accuracy ±1° Length 300 mm</p>

	<ul style="list-style-type: none"> - With one year warranty - With calibration certificate
59.	<p>Infrared Moisture Balance, Specifications: Weighing capacity: 200 g; Repeatability, average: -for initial sample weight approx. > 1 g: $\pm 0.2\%$ -for initial sample weight approx. > 5 g: $\pm 0.05\%$ Readability: 1 mg, 0.01 % Typical sample quantity: 5 – 15 g Result display: Moisture content in %M and g dry weight in %S and g ATRO in %M/S Temperature range and settings: 40°C– 160°C, stand-by temperature selectable from 40–100°C in increments of 1°C Sample heating: Infrared radiation by an AURI heater, 600 W; Heating programs: Standard drying, gentle drying Shutoff parameter Optional:– Fully automatic– Semiautomatic mg (1–50 mg 5–300 sec.)– Semiautomatic % (0.1–5.0 % 5–300 sec.)– Timer settings (02:00–99.59 min.)– Manual; Access to sample chamber: Removable hood with wide opening angle, SoftClose mechanism Operator guidance features:– Intuitive user interface, including touch screen and easy-to-understand menu guidance– Weighing-in help and target value attainment function– Curve display; Methods: 100 methods saved in non- volatile memory; Method development: Assistant software guides users to develop new methods in approx. 3 easy test cycles; Methods management: Method menu with file management option, generation of a method library, up to 100 methods; Data transfer: SD card, method import and export function; Sample forceps: Easy-to-handle sample dish Performance test: Menu function to test the device's repeatability using the ReproEasy pad Memory for data storage: Results are saved for the last 999 measurements Status light: Displays the status “analysis running/ START”, “analysis completed/ STOP” or “analysis error” Sample inspection: LED-illuminated sample chamber, inspection window with grid above the hood; Mini USB – Direct data transfer to Microsoft® Windows programs without any additional software– Programmable data output interval– Data transfer protocols SBI, table format, text format; Frequency: 50/60 Hz</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With product training
60.	<p>Laboratory Blender, Two-speed, push-button operation Base: die-cast, epoxy-coated motor housing 1-liter, stainless steel container with handle and two-piece vinyl and styrene lid 0.5 HP motor Power 230V, 50 Hz Approved CE, RoHS</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate
61.	<p>Spectrophotometer, Wavelength Range: 190 - 1100 nm Monochromator: 4 nm Monochromator: Single beam Littrow type, grating 1200 lines/mm Wavelength Accuracy: ± 0.8 nm Wavelength Repeatability: ± 0.5 nm Wavelength Calibration: automatic at start Light Source: Tungsten Halogen/Deuterium Lamp Detector: Solid Silicon Photodiode Photometric Readout: 1/4 VGA 320X240 pixels backlit LCD Photometric Range: 0 - 200%T -0.3 - 3.0A 0 - 9999C Photometric Accuracy: $\pm 0.5\%$T</p>

	<p>Zero Drift: < 0.002A per hour after warm-up Baseline Flatness: ±0.004A Stability: 0.002A/h at 500 nm Stray Light:< 0.15%T Scanning Speed: Hi, Med., Low. Max. 1000 nm/min Standard Sample Holder: 4-position Cell Holder Analogue/Digital Output: Digital, RS232 Serial, Centronics Parallel Dimensions: 550(L) x 420(W) x 270(H) mm Weight: 20 kg / 44 lbs Shipping Dimensions: 390(H) mm Shipping Weight: Power Requirements: 230V/50Hz, switchable Operating Temperature Room temperature: 22 ±2°C Humidity Range: less than 85% Includes: - AVR 5KVA WITH Laptop Specifications 8-Core CPU 8-Core GPU 8GB Unified Memory 256GB SSD Storage footnote ¹ 16-core Neural Engine 13.6-inch Liquid Retina display with True Tone² 1080p FaceTime HD camera MagSafe 3 charging port Two Thunderbolt / USB 4 ports Support for one external display Magic Keyboard with Touch ID Force Touch trackpad 30W USB-C Power Adapter M2 brings incredible performance and capability so you can blaze through everyday activities, multitask across apps, pursue your creative passions, and play your favorite games Run multiple apps and edit thousands of photos or 4K video Up to 12x faster than fastest Intel-based MacBook Air footnote ³ Supports one external display - With one year warranty - With calibration certificate - With personnel training</p>
62.	<p>Titration Apparatus, Extremely high chemical resistance; Smooth and light to operate with soft touch operating wheels; Media recirculation system that allows unused media to be recovered from the device and returned to the bottle; 360° rotating dispensing head; Universal connector at the back of the unit for drying tubes and filters; Easy to attach aspiration tube with a secure threaded connection; User replaceable valves; Supplied with UV-protected replacement window for light sensitive media protection Long life CR2032 battery; Easy custom adjustment for various liquids; Wide range of accessories; Autoclavable liquid pathway; Wide range of adapters included to fit most common bottle sizes; Weight 844 g (20 mL); Length 260 mm (20 mL); Autoclavability Autoclavable liquid pathway (121 oC, 20 min, 1 bar/100 kPa); Threaded bottle fitting A45; Bottle adapters included A32, A38, S40 Battery CR2032; Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655.; Test temperature: 15 oC to 30 oC +/- 0,5 oC Relative humidity: > 50%; Transportation conditions Temperature: 0 oC to 40 oC; Long-</p>

	<p>term storage conditions Temperature: 0 oC to 40 oC; Chemical resistance Information available on request; Materials Piston: Compound Halar (ECTFE) Cylinder: Borosilicate glass 3.3 Valve block: Halar (ECTFE); Valve mantle: Halar (ECTFE) Valve ball:; Borosilicate glass 3.3 Valve seat: Borosilicate glass 3.3; Valve spring: Hastelloy Tubes: FEP Sealing rings: PTFE; Nominal Volume(ml): 50; Readability(ml): 0.01; Test Volume(ml): 50 Systematic Error* [%]: 0.2 Systematic Error* [mL]: 0.10 Random Error* [%]: 0.1 Random Error* [mL]: 0.05</p> <p>Includes:</p> <ul style="list-style-type: none"> - 1 Liter Amber Bottle - With one year warranty - With calibration certificate - With personnel training
63.	<p>Vortex Mixer,</p> <p>Type of movement orbital</p> <p>Shaking stroke 4.5 mm</p> <p>Permissible shaking weight (incl. attachment) 0.5 kg</p> <p>Motor rating input 10 W</p> <p>Motor rating output 8 W</p> <p>Permissible ON time 100 %</p> <p>Speed min (adjustable) 200 rpm</p> <p>Speed range 0 - 3000 rpm</p> <p>Speed display scale</p> <p>Operating mode continuous operation</p> <p>Touch function yes</p> <p>Working with microtiter plates yes</p> <p>Number of microtiter plates 1</p> <p>Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2.9 kg</p> <p>Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80 %</p> <p>Protection class according to DIN EN 60529 IP 21</p> <p>Voltage 100 - 240 V</p> <p>Frequency 50/60 Hz</p> <p>Power input 20 W</p> <p>DC Voltage 24 V=</p> <p>Current consumption 800 mA</p> <p>Includes:</p> <p>MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate
64.	<p>Differential Scanning Calorimeter,</p> <p>Specifications:</p> <p>This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.</p> <p>Temperature range: –180°C (with appropriate cooling option) up to +600°C</p> <p>Heating and cooling rates: 0,001 up to 300°C/min</p> <p>Temperature accuracy: +/- 0.2K</p> <p>Temperature precision: +/- 0.02K</p> <p>Digital Resolution: 16.8 million points</p> <p>Resolution: 0.03 μW</p> <p>Atmospheres: inert, oxidizing (static, dynamic)</p> <p>Measuring range: +/-2,5 up to +/-250mW</p> <p>Calibration materials: included</p>

	<p>Calibration: recommended 6-month interval Temperature range: –180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 μW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40μl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum crucible (40 μl, for crimping) - Aluminum lid for 40μl and 100μl crucibles for crucibles 30293043 and 30293045, non pierced -Pierced aluminum lid for 40μl and 100μl crucibles for crucibles 30293043 and 30293045 - -L40/3051 manual gas control 1 gas - Liquid Nitrogen Quench-Cooling Option - High sensitivity ceramic sensor for chip DSC, High resolution Sensor for maximum sensitivity (up to +35%). Recommended for polymer applications (e.g. glass transition, melting point and crystallization) Compatible with all Chip- DSC systems and accessories. - State of the Art Desktop-PC incl. Windows© OS Intel Core i3-1300, 8GB, DDR4, >23,8" - Software module for temperature modulation (Cp determination) -Starter Kit - UPS 5KVA - AVR 5KVA - With one year warranty - With calibration certificate - With personnel training</p>
65.	<p>Frequency Generator, Reliable and User Friendly Frequency range: 1HZ-2 kHz. Waveform: sine square and triangular. TTL output: controllable ±13 Volts when auxiliary input of 15 Volts is used, 9 volts if batteries are used. Can use an external power supply or two 9V batteries, not included. Two potentiometers for frequency and amplitude are featured on this generator along with two dials for selection of frequency and waveform. Two outputs - the alternating signal and the TTL signal are also included. - With one year warranty - With calibration certificate</p>
66.	<p>Gas Meter, 4 In 1 High-Quality Electrochemical Gas Sensor 1800mAh with 2 Alarm Types Toxic Level Meter Measuring gas: Carbon monoxide, hydrogen sulfide, combustible gas, oxygen; Response time: < 30s; Display error: Carbon monoxide (≤ 10% (relative error)), hydrogen sulfide (± 5ppm) combustible gas (± 5%FS), oxygen (± 3%FS) Indication mode: LCD indicates real-time data, LED, sound, and vibration alarm. Alert: Sound alarm: 85 dB/30 cm away; Visual alarm: highlight LED; Vibration alarm; LCD display: over the set limit, low battery power Applicable temperature: -10°C ~ 55°C Applicable humidity: < 90% RH no condensation Working voltage: DC 3.7V 1800 mAh lithium battery; Charging specifications: Type-C DC 5V 1A Sensor life: 2 years</p>

	<p>Sensor principle: Electrochemical and catalytic combustion</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate
67.	<p>Water Activity Meter,</p> <ul style="list-style-type: none"> -Working temp. -10°C~50°C; Working humidity 0~95% RH; Display LCS Display; Measuring range temperature -10°C~50°C; Water Activity 0~1.000aw; Measurement accuracy temperature $\pm 0.5^{\circ}\text{C}$ water activity ± 0.012(@23°C$\pm 5^{\circ}\text{C}$); Measurement time 5~40min; Measurement points 1~4; Temperature coefficient $\leq 0.0005/^{\circ}\text{C}$; Activity Repeatability ≤ 0.008 - With one year warranty - With calibration certificate - With personnel training
68.	<p>Hot Plate/Magnetic Stirrer,</p> <ul style="list-style-type: none"> Number of stirring positions 1 Stirring quantity max. per stirring position (H2O) [l] 10 Motor rating output [W] 1.5 Direction of rotation left Speed control scale 0 - 6 Speed range [rpm] 100 - 1500 Stirring bar length max. [mm] 80 Heat output [W] 1000 Heating temperature range [$^{\circ}\text{C}$] 50 - 500 Heat control LED Heating rate heating plate [K/min] 5 Connection for ext. temperature sensor ETS-D5 Fixed safety circuit [$^{\circ}\text{C}$] 550 Set-up plate material ceramic Set-up plate dimensions [mm] 180 x 180 Dimensions (W x H x D) [mm] 220 x 105 x 330 Weight [kg] 5 Permissible ambient temperature [$^{\circ}\text{C}$] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 Voltage [V] 230 / 120 / 100 Frequency [Hz] 50/60 Power input [W] 1020 - With one year warranty - With calibration certificate
69.	<p>F1 1 kg -w/ DAKKS Certification,</p> <p>Specifications:</p> <p>F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas.</p> <ul style="list-style-type: none"> Nominal value – 1 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 1000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates
70.	<p>E2 set of Weight 1g -200g w/ DAKKS Certification,</p> <p>Specifications:</p> <p>Class E2 Standard weights are adjustment, test, official verification and calibration weights for Class I precision scales and are used for quality assurance of scales with a number of steps < 1 000 000 according to. DIN EN ISO 9001ff etc. Nominal value – 1g to 200g</p> <ul style="list-style-type: none"> Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 610 grams Consisting of 11 pcs. Weight Retention – Mahogany Box Certifications – DAKKS Certificates

71.	<p>F1 2 kg -w/ DAKKS Certification, Specifications: F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas. Nominal value – 2 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 2000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates</p>
72.	<p>Water Bath, -Working temperature range 5°C - 100°C -Temperature stability ±0.1°C -Temperature calibration capability 1-point -Working access (LxWxD) 24.1x43.2x15.2cm -Flammability class (DIN 12876-1) I (NFL) -Displays actual and set point temperature simultaneously -Programmable presets for frequently used temperatures -Intergrated timer -Primary and automatic safety thermostats -Also compatible with waterless bath beads -Reservoir Capacity 20 Liters -Reservoir tank material: Stainless Steel -Reservoir cover: Hinged Gable -Over temperature protection/ failsafe heater control: yes -Reservoir drain: Yes -Maximum ambient temperature 40°C -Overall Dimension (LxWxH) 38.4x57.2x38.4cm -Shipping Weight 11.3 kg - With one year warranty - With calibration certificate</p>
73.	<p>Fumehood, External Size (W*D*H) 1247*800*2450mm Internal Size (W*D*H) 987*560*700mm Work Surface Height 820mm Max Opening 740mm Air Velocity 0.3~0.8m/s Noise ≤68dB Illuminating Lamp -LED lamp -30W*1 Blower -Built-in PP centrifugal blower (2 blowers for FH1800(P) only); Speed adjustable Front Window -Resistant to acid and alkali, Manual, 5mm toughened glass, height adjustable. Power Supply AC220V±10%, 50/60Hz; 110V±10%, 60Hz Consumption 360W Material: -Main Body Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion -Work Table Chemical resistant phenolic resin Standard Accessory: -Illuminating Lamp, Water tap, Gas tap, Water Sink, Base cabinet -Waterproof socket*2, PP centrifugal blower, pipe strap*2(4 Pcs for FH1800(P) only)</p>

	<p>-4 meters PVC duct -(2 Pcs of 4 meters PVC dust for FH1800(P) only), Diameter:250mm - PP work table, epoxy resin board or ceramic board, Active carbon filter, Optional Accessory -Outer PVC centrifugal blower (only need to select when the duct more than 4m) Gross Weight 253kg Package Size(W*D*H) -Main Body 1388*938*1612mm -Base Cabinet 1388*888*1000mm Includes: - AVR 5KVA -With one year warranty with installation</p>
74.	<p>Nitrogen Distillation Apparatus, 500ML Nitrogen Kjeldahl Flask 200mm Length Graham Condenser Connecting Distillation Head Joints:24/40 The 500ml distilling apparatus is used for determining nitrogen in organic compounds. This assembly includes a Kjeldahl flask specifically developed for this process and a Graham condenser with 10mm O.D. tubulations. The connectiong distillation head is 24/40 joints. - With one year warranty - With calibration certificate</p>
75.	<p>Dessicator, -Borosilicate Glass Desiccator is common equipment in labs, ideal for drying, preserving, or storing moisture-sensitive substances -Include porcelain plate to separate sample and desiccant -Inner diameter: 9.4 inch; Outer diameter: 12 inch; Height: 13 inch -Borosilicate glass, heavy duty and reusable - with one year warranty</p>

Section VIII. Bid Documents Checklist

This Bid Documents Checklist is provided to guide the Bidder in preparing his/her bid. The checklist may be used by the Bidder to verify if the Bid includes all the prescribed documents.

The Bidder, in submitting the required documents, must use the prescribed forms found in Section X. Bidding Forms. However, should a bidder choose to use a different formatting style for a required document, the bidder must ensure that the substance in the form given in Section X for that particular document is substantially captured in the equivalent document.

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR;

Technical Documents

- (b) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; and
- (c) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and
- (d) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of Notarized Bid Securing Declaration; and
- (e) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; and
- (f) Original duly signed Omnibus Sworn Statement (OSS) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class "B" Documents

- (h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

II. FINANCIAL COMPONENT ENVELOPE

- (i) Original of duly signed and accomplished Financial Bid Form; and
- (j) Original of duly signed and accomplished Price Schedule(s).

Section IX. Bidding Forms

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[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

Statement of Single Largest Completed Contract Similar to the Contract to be Bid

Row 1: Name of Contract Row 2: Location	Contract Price	Row 1: Procuring Entity Row 2: Address Row 3: Contact Person/Tel. No.	Description of Goods	Date of Award	Date Completed

Attached herewith are the following documents: Contract Agreement, Notice of Award, Notice to Proceed, Official Receipt/Invoice, Certificate of Final Inspection, and Certificate of Acceptance, as evidences in support of the foregoing information.

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

Bid-Securing Declaration

Republic of the Philippines
City/Municipality Of _____) S.S.

x-----x

Invitation to Bid [*Insert reference number*]

To: **Tarlac State University**

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.
2. I/We accept that: (a) I/we will be automatically disqualified from bidding for any contract with any procuring entity for a period of two (2) years upon receipt of your Blacklisting Order; and, (b) I/we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, within fifteen (15) days from receipt of written demand by the procuring entity for the commission of acts resulting to the enforcement of the bid securing declaration under Sections 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9184; without prejudice to other legal action the government may undertake.
3. I/We understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
 - a. Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
 - b. I am/we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and
 - i) I/we failed to timely file a request for reconsideration or
 - ii) I/we filed a waiver to avail of said right;
 - c. I am/we are declared as the bidder with the Lowest Calculated Responsive Bid, and I/we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I/We have hereunto set my/our hand/s this ____ day of [*month*] [*year*] at [*place of execution*].

[*Signature*]
[*Name of Bidder's Authorized Representative*]
[*Signatory's legal capacity*]
Affiant

SUBSCRIBED AND SWORN to before me this ___ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____.

Witness my hand and seal this ___ day of *[month]* *[year]*.

[Name and Signature of Notary Public]

Serial No. of Commission _____

Notary Public for _____ **until** _____

Roll of Attorneys No. _____

PTR No. __, *[date issued]*, *[place issued]*

IBP No. __, *[date issued]*, *[place issued]*

Doc. No. ____

Page No. ____

Book No. ____

Series of ____.

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

Compliance to the Technical Specifications

Item No.	Description	Bidder's Compliance State "Comply" below if your offer is complying with the specifications, otherwise state "We are offering the same goods with the following specifications [State the complete specifications of the alternative offer]"
Lot No. 1 – Production Tools and Equipment		
1.	Commercial Vertical Gas Boiler, Rated Steam Capacity (t/h): 1 Rated steam pressure (Mpa): 0.4/0.7 Rated steam temperature (°C): 151 Fuel consumption (Nm ³ /h): 78, 65 and 28 Weight (Kg): 2561 Size(mm): 2468*φ1358 with 1 year warranty with installation	
2.	Commercial Industrial Bubble Fruit and Vegetable Washing Machine, warranty of core components:1 Year Core Components: Motor Model Number: 600-800-1000-1200 Weight: 800 KG Voltage: 220V/380V Power: 3.75 Dimension(L*W*H): 4000*1300*1400mm Washing type: Water Bubble Washing Capacity 200-2000 kg / h Function Air Bubble Water Washing Machine with 1 year warranty with installation	
3.	Full Automatic Collagen Drink Fruit Juice Horizontal Filling Machine Premade Bag Doypack Juice Soda Liquid Packing Machine, Function FILLING, Sealing Packaging Type Stand-up Pouch, Bags, Pouch Packaging Material Plastic, Wood Other attributes Production Capacity 25bag/min warranty 2 years Key Selling Points Long Service Life	

	<p>Machinery Test Report Provided Video outgoing-inspection Provided warranty of core components 1 Year Core Components Motor, PLC, Engine Type Multi-Function Packaging Machine Condition New Driven Type Pneumatic Voltage 110V/220V/380V/415V Dimension(L*W*H) 2000*800*1500mm Name Horizontal pouch packing machine Material Stainless Steel 304/316 Main Function Filling, sealing, date printing Bag type Stand-up bag, zipper bag, etc Bag material PE, Laminated film , paper bag Bag sealing type Heat sealing, sewing, glue brushing Speed 25bags/min Bag width 70-280mm Bag length 80-440mm with 1 year warranty with installation</p>	
4.	<p>Automatic Liquid Packaging Machine Sachet Bag Water Filling Packing Machine, Production Capacity: 20-40bags/min, Weight (KG): 300 warranty: 1 Year, Electric Voltage AC 220V/50HZ 110V/60HZ, Dimension(L*W*H) 730*750*1700mm Packing range: 5-300ml Packing Film Composite material: OPP/OPP/CE,MST/PE/PET/PE Forming bag dimension L40-200mm W25-150mm (can be customized) Sealing type: Three sides sealing, back sealing Machine material: Stainless steel Measure method: Piston Advantage: Stable working Control system: PLC+touch Screen with installation</p>	
5.	<p>High Speed Automatic Bottle Filling Machine, Machine Model: ZS-AFC28, Voltage: 220V/110V 50-60Hz, Power: 3kW, Production Speed: About 40 bottles/min (dependent on bottle size and filling materials), Filling Range: 10- 1000ml (can be customized), Filling Pump: Peristaltic Pump, Max Flow rate: 6L/min (based on water), Suitable Bottle Size: Can be Customized, Bottle Cap Size: Can Be Customized, Air Pressure: 0.5-0.7 MPa, Machine Size: 2050*1800*1500mm, Packaging Weight: About 725kg (Filling Machine) About 78kg (Vibratory Bowl), Packaging Size: About 2080*1000*1960mm (Filling Machine) About 1020*610*580mm (Vibratory Bowl) with installation</p>	
6.	<p>Full-Automatic Planetary Agitator Jacketed Kettle, Model: 2GL200 (200L Capacity), Pot Diameter: 1000mm, Depth: 470mm, Agitation Power: 2.2kw, Hydraulic Power: 1.1kw, Volt/Hz: 380v50hz, Heating: Steam, Gas and Electric.</p>	

	with 1 year warranty with installation	
7.	Noodle Maker, stainless steel; 80kg/h High Efficiency Automatic Noodle Macaroni Spaghetti Maker Machine Pasta Extruder Making Machine; can do noodle, small shell, five-pointed star, small screw, fruit and vegetable noodle, crispy rice, pizza roll, hollow pattern, conch noodles, cat ears, etc.; capacity: 60-80kg/h; size: 70*48*90cm; net weight: 100kg; incl. factory calibration certificate	
8.	Universal Pin Mill Grinder Stainless Steel Hammer Mill Herb Spice Pulverizer Machine, Output (kg/h) 20 - 1000 kg/h Feeding Size (mm) 6 - 15 mm Output Size (mesh) 12 - 120 mesh Other attributes Application Chemicals Processing, Food Processing, Condition New, Type Grinder Place of Origin China Weight (KG) 600 KG, warranty 1 Year	
9.	Table-top Pulverizer, stainless steel; capacity: 5-8kgs/hr; high speed grinding; full copper motor; different size grinding; incl. factory calibration certificate	
10.	Fruit and Vegetable Juice Extractor Machine, industrial type; multi-purpose; automatic fruit juice screw press; with food grade pushing rod; detachable stainless steel juicing net inside the machine; heavy duty base; incl. factory calibration certificate with installation	
11.	Food Processor, multipurpose/3-in-1; four interchangeable stainless-steel blades for slicing: fine, coarse, shredding, and chopping; bowl & housing material: plastic; blade material: stainless steel; safety locking lid; non-slip feet; two speed setting	
12.	Extruder, Interchangeable Plates; Material: Stainless Steel 304; Voltage: 220V; Dimension: 70x47x90cm; Weight 120kg; Power 3000W; With one year warranty; With product training	
13.	Can Seamer, semi-auto bench top can seamer; for 12oz,16oz, 330ml, 500ml cans; power: 250W 24V DC;rated speed: 3300 RPM; fast seaming process; incl. calibration certificate; With one year warranty	
14.	Microwave, -25L capacity -Easy clean coating (Antibacterial) -Stable turntable -Dimension (LxWxH): 369x476x272mm -Smart Inverter -Power Output 1000W -Required power supply 230V/60Hz -Cooking Modes: Inverter Defrost; Melt; Proof; Soften; Warm -With one year warranty	

15.	<p>Electric Kettle, -Fast boiling and auto-off feature -Stainless Steel concealed Heater -360° Rotating Stainless-Steel Body -Weight: 0.77kg -Dimensions: L 13.97xW 20.57x 20.06cm -1 Liter Capacity -1 Year warranty on parts and service -Push button lid</p>	
16.	<p>Deep Fryer, -The whole machine adopts a detachable design. The lid, basket, handle, tank, heater, and oil residue partition can all be disassembled for easy cleaning; simple installation -Adjustable temperature range: 60 to 200°C (140 to 392°F), Suit for 110v, 60Hz, Power: 2500W each fryer, total: 5000W; oil can be heated quickly -The whole machine is designed with two independent heaters, and the capacity of each fryer is 6L, a total of 12L. Two independent power supplies can work at the same time, or use only one of them, which is convenient to control and save power. Package size:about 22.2*17.9*12.2inch (56.5*45.5*31cm) -Package included: 1x stainless steel frame; 1x manual; 2xPCS electric fryer controller; 2xPCS stainless steel tank; 2xPCS stainless steel basket; 2xPCS handle; 2xPCS stainless steel lid; 2xPCS stainless steel partitions -With one year warranty</p>	
17.	<p>Rotary Oven, dimensions: (H*W*D) 2300x1800x1900 mm; weighing 1300 kg; Voltage: 400 Volt; Power: 48 Kw; Large baking capacity: containing baking Frame, baking 32pans each time; Saving the cost: stainless steel tubes and imported electric burner; Extra-thick health insulation material; incl. calibration certificate; with one year warranty with installation</p>	
Lot No. 2 – Laboratory Tools and Equipment		
18.	<p>Vacuum Oven, Performance Data Temperature Heating-up time to 100 °C [min] 80 Temperature fluctuation [± K] 0.1 Temperature range +10 °C above ambient temperature to [°C] 220; Temperature range +9 °C above ambient temperature to [°C] 220; Temperature variation at 100 °C [± K] 1.2 Vacuum Data; Leak rate [bar/h] 0.01 Electrical data; Nominal power [kW] 1.4; Phase (Nominal voltage) 1~ Power frequency [Hz] 50/60 Rated Voltage [V] 200...230 Unit fuse [A] 8 Connections; Compressed air connection for pressure-encapsulation [NW] 5; Measuring access port with small flange [DN mm] 16; Universal connection for air / inert gas with flow limiter; thread (RP") 3/8 Vacuum connection with small flange [DN mm] 16</p>	

	<p>Doors; Unit doors 1; Housing dimensions not incl. fittings and connections; Depth net [mm] 461; Height net [mm] 815; Width net [mm] 638 Internal Dimensions; Depth [mm] 343; Height [mm] 400; Width [mm] 400 Measures; Interior volume [L] 55; Load per rack [kg] 20; Net weight of the unit (empty) [kg] 95 Permitted load [kg] 60; Viewing window height [mm] 420 Viewing window width [mm] 420; Wall clearance back [mm] 100; Wall clearance sidewise [mm] 70 Environment-specific data Sound-pressure level [dB(A)] 40 Fixtures Number of shelves (std./max.) 1/5 With Vacuum Pump Technical Specifications: Max. temperature of liquid media: 5 – 40 °C Flow Rate 22 L/min Maximum Viscosity < 150 cSt Pump Flow 22 l/min Operating Conditions Maximum Vacuum 100 mbar Operating Current 0.9 A Operating Pressure 1 bar Power Requirements Input Wattage 130 Watts Line Frequency 60 Hz Line Voltage 115 V Power Requirements 115 V - 60 Hz Product Information Type of Pump Vacuum Pump Includes: - AVR 5KVA - With vacuum pump included - With one year warranty - With calibration certificate - With personnel training</p>	
19.	<p>Drying Oven Convection, Specifications: Temperature range [°C] 60...230 Heating-up time to 150 °C [min] 36 Recovery time after 30 seconds door open at 150 °C [min] 19 Electrical data Nominal Voltage [V] 230 Power frequency [Hz] 50/60 Nominal power [kW] 0.8 Phase (Nominal voltage) 1~ Measures Interior volume [cu.ft.] 1 Net weight of the unit (empty) [lbs] 49 permitted load [lbs] 55 Load per rack [lbs] 22 Wall clearance back [in] 6.3 Wall clearance sidewise [in] 3.94 Internal Dimensions Interior width [in] 15.76</p>	

	<p>Interior height [in] 11.03 Interior depth [in] 9.85 Doors Unit doors 1 Housing dimensions not incl. fittings and connections Width net [in] 22.85 Height net [in] 15.96 Depth net [in] 16.74 Fixtures Number of shelves (std./max.) 2/4 Benefits: Uniform drying conditions thanks to APT.line™ technology Identical test conditions throughout the chamber interior independent of sample size and quantity Outstanding thermal insulation saves operation costs MAIN FEATURES:</p> <ul style="list-style-type: none"> • Temperature range: 60 °C to 230 °C • Adjustable exhaust air flap • Hydro-mechanical thermostat • Class 1 temperature limitation device (Model E028-230V-T) • Timer 0 – 120 min • 2 chrome-plated racks- With one year warranty - With calibration certificate - With personnel training 	
20.	<p>Air Oven, • Temperature range: +5 °C above ambient temperature to +300 °C • Force convection • Controller with LCD display • Electromechanical control of the exhaust air flap • 2 chrome-plated racks • Stackable • Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm • Ergonomic handle design • USB port for recording data • Best energy efficiency on the market • Excellent temporal and spatial temperature accuracy • USB connection for recording data Technical Specifications Performance Data Temperature; Heating-up time to 150 °C [min]18; Recovery time after 30 seconds door open at 150 °C [min]4; Temperature fluctuation at 150 °C [± K] 0.3; Temperature range +10 °C above ambient temperature to [°C] 300; Temperature variation at 150 °C [± K]1.7; Air change data; Air change (approx.) at 100 °C [x/h]32 Electrical data; Nominal power [kW] 1.3 Phase (Nominal voltage)1~; Power frequency [Hz] 50/60 Rated Voltage [V] 230 Unit fuse [A] 6.3 Doors; Unit doors 1 Housing dimensions not incl. fittings and connections; Depth net [mm] 605; Height net [mm] 735 Width net [mm] 710 Internal Dimensions; Depth [mm] 385; Height [mm] 550 Width [mm] 550 Measures; Interior volume [L] 116 Load per rack [kg] 30; Net weight of the unit (empty) [kg]; Permitted load [kg] 150 Wall clearance back [mm] 160 Wall clearance sidewise [mm] 100 Environment-specific data 57; Energy consumption at 150 °C [Wh/h]340; Sound-pressure level [dB(A)] 4 Fixtures; Number of shelves (std./max.) 2/5 - With one year warranty - With calibration certificate</p>	

21.	Laboratory Metal Trays, Color Metal Silver Material Stainless Steel Product Dimensions 12"L x 9"W x 1"H Is Dishwasher Safe Yes Material Type Free Chemical Free Item Weight 4.69 pounds	
22.	Air Compressor, portable cordless; air compressor kit; 2.5 Gallons; 140 PSI; brushless motor with a heavy-duty oil-free pump; with battery & charger; air delivery of 1.0 SCFM at 90 psi; drive up to 970 nails per charge; air flow capacity: 1 cubic feet per minute; maximum pressure: 140; battery type: lithium ion; With one year warranty	
23.	Metal Tray, - Material: Stainless Steel 304 - Dimension (LxWxH): 12"x6"x1" - Bottom Inside Length: 11" - Bottom Inside Width: 6" - Seamless	
24.	Rubber Tongs, -Material: Silicone -Style: non stick -Dimensions: 13.78x1.77x1.69 inches -Heat resistant -Easy to lock -Set of 2-9 pcs	
25.	Kitchen Scissors, -Material: Stainless Steel -Dimension: 8.73"Lx3.62"W -Blade Length: 3.82 inches -Handle Material: Stainless Steel	
26.	Kitchen Knife Set, -Set Includes: 1x 8" Chef Knife, 1x 8" Slicing Knife, 1x 8" Bread Knife, 1x 7" Santoku Knife, 1x 5" Santoku Knife, 1x 5" Utility Knife, 1x 3" Paring Knife, 6x 5" Steak Knife, 1x Utility Scissors, 1x Acacia Block -High Carbon Blades: Made with premium 7Cr17 High Carbon Steel that provides a razor-sharp professional quality blade. The steel contains 0.6-0.75 carbon, making it two times tougher than other knives in its class with a Rockwell Hardness of 57-58 -Comfort & Control: The knives are integrated with a soft and comfortable Pakka Wood handle, creating the perfect grip. The ergonomic shape enables the right balance between the handle and the thin blade, ensuring ease of movement -Block: Constructed from robust and durable Acacia Wood, the block features deep slots designed to safeguard the sharp blades, ensuring both protection and secure storage.	
27.	Spoon And Fork Set, -Material: 18/10 Stainless -8" Dinner Fork x 8 -6.5" Teaspoon x 8	
28.	Stainless Bowl, -Material: Stainless Steel -Dimension: 6" Height, 14" Diameter	
29.	Chopping Board, -Material: Polypropylene Plastic	

	<ul style="list-style-type: none"> -Product Dimension: 14"Lx11"Wx0.5Th -Color: White -Easy to clean 	
30.	<ul style="list-style-type: none"> Kitchen Hood, -90cm island hood -Stainless Steel -3 speed push button control -Washable aluminum grease filter -900m³/h max. air capacity -150mm diameter ducting outlet -With one year warranty 	
31.	<ul style="list-style-type: none"> Stainless Table, -Material: Stainless steel 304 -Fabricated -Dimension: 60"Wx36"D -With under shelf -With one year warranty 	
32.	<ul style="list-style-type: none"> Stainless Table with Sink, -Material: Stainless Steel 304 -Sink Dimension: 12in depth; 16in Length; 20in width -Table Dimension HxLxW: 40.5"x60in"x30" -Includes Faucet -Includes Drainboard -Includes Back Splash -Back Splash Height: 5" -With under shelf 	
33.	<ul style="list-style-type: none"> Reusable Ice Packs, -Sturdy -Capacity: 200ml -Re freezable -Sheets is refrigerant made and non toxic materials -Heavy duty washable plastic material -20 pieces per pack 	
34.	<ul style="list-style-type: none"> Cooking Kitchen Utensil Set, -14 pcs Heat resistant set (Turner, Tongs, Spatula, Spoon, Brush, Whisk, Wooden Handle Grey gadgets with holder for non stick cookware -Heat resistant, Non melting, Wooden handle -Easy to clean -Food grade silicone, odorless 	
35.	<ul style="list-style-type: none"> Dinner Plate, -Material: Ceramic -Color: White -Microwave, Oven and dishwasher safe -Shape: Round -Dimension: 10.5"Lx10.5"Wx1"H -Easy to clean -Includes 12 pieces per pack 	
36.	<ul style="list-style-type: none"> Anti Vibration Tables, -Stainless Steel -Balance performance maximised by elimination of vibrations -Custom designed elastomeric isolators built into worktop -Ideal for larger balances thermal analyser and similar instruments -With one year warranty -Dimension: 30"H; 48"W -Capacity: 25kg 	

37.	<p>Central Laboratory Table, -Dimension (mm): 1200x3600x800 -Material: Top board/Cellon (Phenolic resin composit), Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/ Steel square pipe(melamine baking coating) with legs/ level adjuster with installation</p>	
38.	<p>Laboratory Table (Side), -Dimension (mm): 750x3600x800 -Material: Top Board: Cellon (Phenolic Resin Composit); Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/Steel square pipe (melamine baking coating) with legs/level adjuster with installation</p>	
39.	<p>Jar Lifter, -Measures: 8.75" x 3" x 1.5" / 22cm x 7.5cm x 4cm -Vinyl coated grip clamps securely on jar tops -Material: Stainless</p>	
40.	<p>Sensory Booths with sink (Modular), -1.00mWx1.00mLx2.10mH Sensory Booth fabricated with 3/4"thk. Laminated Marine Plywood - Plain White Finish (Non-glossy) including wood edging; with 0.34mWx0.40mH Counter Opening to be covered with vertical sliding door; Equipped with 1 - Acid resistant polypropylene sink with drainboard and 1-WSF Gooseneck Water Faucet complete with trap, drain fittings; 10pcs (5pcs back-to-back) - 6500 K temperature lighting that can provide colored light sources complete with wirings and switches; and complete accessories with installation</p>	
41.	<p>Chest Freezer, HD Inverter Chest Freezer Dual Function Technology (Freezer or Chiller) Solid Top with Glass Cover Inside Digital Temperature control w/ LCD Display Galvanized Interior LED Light Recessed Handle with Key Lock Roller Feet Dimension (HxWxD): 85 x 112 x 70 cm Warranty: 1 Year on Service 2 Years on Parts 5 Years on Compressor</p>	
42.	<p>Freezer, 43 cu. Ft. upright freezer; 8 adjustable shelves; Full Stainless Steel 304 (Body and Door); Digital Temperature Control; Roller Feet with Stopper; LED Lighted Interior; Key lock; Dimension (HxWxD): 200x134x81cm; with one year warranty; with calibration certificate.</p>	
43.	<p>Refrigerator, -Dimensions: L 63.7 x W 55.5 x H 163.5 (cm) -9.1 cu.ft. Two Door No-Frost Refrigerator -Digital Inverter Compressor -All-Around Cooling System -EZ Slide-out Shelf -Adaptive Defrost Control</p>	

	<ul style="list-style-type: none"> -12 Hours Cool Pack -Deodorizing Filter -1 Year Warranty on Parts & Service -10 Years Warranty on Compressor 	
44.	<ul style="list-style-type: none"> Induction Cookware Set, -Material: Aluminum -Color: Matte Black -Size: 10 Piece -Handle Material: Stainless Steel -Dishwasher Safe: Yes -Compatibility Option: Electric, Glass-Ceramic, Gas, Induction stovetop suitable -Closure Material: Glass - Included Components: 1.5-Quart Saucepan with lid, 3-quart saucepan with lid, 6-quart stockpot with lid, 11.25-inch grill pan, 8.25-inch frying pan, 10-inch frying pan with lid 	
45.	<ul style="list-style-type: none"> Gas Range, -Dimension(cm)(HxWxL): 88x84x57 -80cm range -4 gas burners with piezo ignition + 1 hotplate with pilot light indicator -Gas Thermostat Oven with Gas Grill -Rotisserie -Tempered Glass Top Cover -#304 Stainless Steel Body -20 amperes -49 Liters Gas Oven -Oven Dimension (mm): 320Hx420Dx370W -1500 watts -Type B -2flat + Ground Plug 	
46	<ul style="list-style-type: none"> Induction Stove, -Dimension: 67.4 x 43.4 x 9.7 Centimeters -Included Components: 1 double induction cooktop -Easy to clean -Dual Heat sensor -With one year warranty -Total Watts-3200 W (Left Cook Station-2000W+Right Cook Station-1200W) 	
47.	<ul style="list-style-type: none"> Utility Cart, Product Dimensions 18.11"D x 30.71"W x 36.23"H Material Stainless Steel Color Stainless Steel Special Feature Stain Resistant Heavy-Duty Sturdy Stainless Steel - Crafted with precision from high-quality stainless steel, this heavy-duty utility cart is the epitome of strength, durability, and functionality. (Note: the handle is made of aluminum.) Impressive Capacity - With a remarkable weight capacity of up to 1100 pounds, our heavy duty stainless steel cart can effortlessly transport heavy items, providing you with reliability. Strengthened Wheel - Equipped with reinforced wheels, this rolling service cart ensures smooth maneuverability even under heavy loads, making it an ideal choice for warehouses, workshops, and more. Convenient Handle - Designed for ease of use, the built-in handle allows for effortless steering and control, reducing strain on your workforce during transport. Safety Fence - A safety fence surrounds the tray, preventing items 	

	<p>from accidentally falling off while in transit. This feature enhances workplace safety and protects your items.</p> <p>3-Tier Capacity - With 3 spacious tiers, this service cart offers ample storage space for your tools, equipment, or materials, helping you stay organized and efficient.</p> <p>Easy Installation - Assembly is a breeze, thanks to the stainless steel tool cart's straightforward installation process. Spend less time setting up and more time putting it to work.</p> <p>Best Service - We are responsible for the quality of this rolling stainless steel utility cart, please feel free to contact us if there is any quality problem, we will reply within 24 hours.</p>	
48.	<p>ATP Luminometer,</p> <ul style="list-style-type: none"> -Detects: EXC Surface Test, ≥ 0.5 femtomole ATP. H2O Test, ≥ 1.0 femtomole ATP. -Number of stored sample plans: 200 -Number of results stored 2000 -Display: LCD Touch Screen -Power Source: Battery Operated -Includes: Pwer supply, USB cord, Base, Global Power Supply Adapters -With one year warranty -With product training -With calibration certificate 	
49.	<p>Anaerobic System,</p> <ul style="list-style-type: none"> -This anaerobic jar is specially formulated for temperature stability and durability <p>It's unbreakable, lightweight, transparent and, of course, autoclavable. Double screw clamp, coupled with the patented Quad Ring, ensures a more positive seal, superior to conventional O- rings. It also doubles as a handy carrying handle. The 3/8" thick anodized aluminum lid won't warp, and it's guaranteed to resist cracking or breaking for ten years.</p> <ul style="list-style-type: none"> -With one year warranty 	
50.	<p>Cooled Incubator</p> <p>Technical Specifications:</p> <p>Performance Data Temperature</p> <p>Temperature range °C -10...100</p> <p>Temperature variation at 37 °C [\pm K] 0.2</p> <p>Temperature fluctuation at 37 °C [\pm K] 0.1</p> <p>Recovery time after 30 seconds door open at 37 °C [min] 2</p> <p>Electrical data</p> <p>Rated Voltage [V] 230</p> <p>Power frequency [Hz] 50 /60</p> <p>Nominal power [kW] 0.7</p> <p>Unit fuse [A] 10</p> <p>Phase (Nominal voltage) 1~</p> <p>Interior volume [L] 115</p> <p>Net weight of the unit (empty) [kg] 105</p> <p>Permitted load [kg] 50</p> <p>Load per rack [kg] 20</p> <p>Wall clearance back [mm] 100</p> <p>Wall clearance sidewise [mm] 100</p> <p>Internal Dimensions</p> <p>Width [mm] 600</p> <p>Height [mm] 480</p> <p>Depth [mm] 400</p>	

	<p>Inner doors 1 Unit doors 1 Housing dimensions not including fittings and connections Width net [mm] 835 Height net [mm] 1025 Depth net [mm] 650 Environment-specific data Energy consumption at 37 °C [Wh/h] 75 Sound-pressure level [dB(A)] 49 Number of shelves (std./max.) 2/5 Features *Temperature range: -10 °C to +100 °C • APT.line preheating chamber technology • Up to 30% lower energy consumption compared to the previous model • Cooling with compressor cooling unit • Adjustable fan speed • Controller with time-segment and real-time programming • Inner door made of tempered safety glass • 2 stainless steel racks • Stackable • Class 3.1 independent temperature safety device (DIN 12880) with visual and acoustic alarm • Computer interface: Ethernet -5KVA AVR -With one year warranty -With product training</p>	
51.	<p>Sample Homogenizer, Technical Specifications: Motor rating input 800 W Motor rating output 500 W Volume range (H2O) 0.001 - 2 l Viscosity max. 5000 mPas Speed range 3000 - 25000 rpm Speed deviation 1 % Speed adjustment stepless Speed display LED Noise without element 75 dB(A) Extension arm diameter 13 mm Extension arm length 160 mm Process type batch Permissible ON time 100 % Dimensions (W x H x D) 87 x 271 x 106 mm Weight 2.5 kg Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80% (up to 31°C), decreasing linearly to max. 50 (@40°C) Protection class according to DIN EN 60529 IP 20 Voltage 220 - 240 V Frequency 50/60 Hz Power input 800 W T25 Digital Package contains: 1 * Disperser 1 * Dispersing Element Ø18 mm 1 * Plate stand, H800 mm 1 * Boss head clamp, clamping range Ø6-16 mm -With one year warranty</p>	

	<ul style="list-style-type: none"> -With calibration certificate -With product training 	
52.	<p>Pipettors Set with Corresponding Tips and 2 units Linear Stand</p> <p>Single Channel Mechanical Pipettor</p> <p>0.5 to 10ul – 728020 (1 unit)</p> <p>10 to 100ul – 728050 (1 unit)</p> <p>20 to 200ul – 728060 (1 unit)</p> <p>100 to 1000ul – 728070 (1 unit)</p> <p>500 to 5000ul – 728080 (1 unit)</p> <p>1000 to 10,000ul – 728090 (1 unit)</p> <p>8 channels Mechanical Pipettor</p> <p>30-300ul – 728140 (1 unit)</p> <p>Tips:</p> <p>10 ul tips – 790010 (1 Box)</p> <p>200 ul tips – 790200 (1 Box)</p> <p>350 ul tips – 790350 (1 Box)</p> <p>1000ul tips – 791000 (1 Box)</p> <p>5000ul tips – LH-780304 (50 tips per rack - 10 racks)</p> <p>10,000ul tips – LH-780316 (bulks in 250)</p> <p>Accessory:</p> <p>Linear Stand – 725620 (2 units) Descriptions:</p> <ul style="list-style-type: none"> - Easy volume adjustment with click stop system - Large display for easy reading of volume - For both right- and left-handed users - Color coded for easy matching of fitting tips - Materials have high chemical and UV resistance to secure long life-time of the pipette - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools - Safe-cone filters available for models above 10ul for extra protection when using non-filtered tips - With light tip ejector - Fully autoclavable without the need for disassembly - Superior Ergonomics - designed handle and finger hook - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI) - With click stop as volume locking - Length 239 mm - Weight of 82 grams 	
53.	<p>Media Bottle,</p> <p>Material Borosilicate Glass</p> <p>Bottle Type Round</p> <p>Color Red</p> <p>Capacity 500 Milliliters</p> <p>Special Feature Airtight</p> <p>Product Dimensions 1.7"W x 6.9"H</p> <p>Product Care Instructions Hand Wash Only</p> <p>Number of Items 8</p> <p>Reusability Reusable</p> <p>Shape Round</p> <p>Finish Type Translucent</p> <p>Unit Count 8.0 Count</p> <p>Manufacturer Pastein</p> <p>Item Weight 7.09 pounds</p>	

	<p>Size 500ml Finish Translucent Special Features Airtight</p>	
54.	<p>Laboratory Sampling Spoon, -Double headed design shapes/combinations to meet different needs. Convenient for transferring materials to different diameter containers, handling powders or granular materials. Resistant to deterioration from contact with boiling water, acids, bases, and most solvents, which make them ideal for use with a wide range of compounds. With these micro spatulas, it is easy to scoop small quantities from deeper bottles and jars with small openings. Lab spatulas feature long handle for taking materials out of deep bottles and cans. Square head spatula with a flat or spoon end are mainly for transferring or handling materials, while the pointed head spoon with a scoop or spoon end are convenient to mix ingredients together in deep containers. Safe, effective and convenient, these tools are used in various sectors including health and wellness, mechanical and tech servicing, beauty and skin care, processioning laboratories, taxidermy, etc. Manufactured from AISI 420 surgical grade stainless steel. Provides high degree of flexibility while conducting clinical procedures. Smooth finish for aesthetic and corrosion resistance. Rust prevention procedure. Tools are rust proof and will hold up to repeated use. Product Conforms to ISO 9001, CE-Quality Mark, ISO 13485, FDA and other Quality Standards. -Overall length: 9" -Pack of 6</p>	
55.	<p>Babcock Fat Extraction set-up, 5 selectable modes for centrifugation (Gerber test, Röse-Gottlieb, Babcock, Solubility and Free Mode) Free Set-up (Free Mode) of - Speed/RCA** (adjustable from 600 to 1200 rpm, the corresponding RCA is shown simultaneously) **RCA = Relative Centrifugal Acceleration - Temperature (adjustable from amb. temp. to 68°C) - Centrifugation time (adjustable from 1 to 99 minutes) - Centrifugation drum of stainless steel - Security lid locking device - Automatic unbalance switch off - Electrical brake - Connection: 230V/50...60 Hz/1200 VA Weight (empty): 26kg - Full height: 460 mm - Operation height: 370 mm - Speed range: 600...1200 UpM - Temperature range: Amb. temperature to 68°C Includes: Rotor (up to 18 Babcock-bottles) Babcock-bucket – 18 pcs - With one year warranty - With calibration certificate - With training</p>	

56.	<p>Circulating Water Pump, Working Temperature Range °F -4° to 275°; Working Temperature Range °C -20° to 135°; Nominal Cooling Capacity @ +20C (W) 200 Reservoir Capacity (gallons) 1.85; Reservoir Capacity (liters) 7; Reservoir/Tank; Material Stainless Steel; Reservoir Cover Included; DuraTop Yes; LidDock Yes; Cleanable Air Filter Yes; Working Access (L x W x D) (inches) 6.18 x 5.59 x 5 in; Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm; Temperature Stability °F±0.13; Temperature Stability °C ±0.07°; Display 3.25" LCD; Display Resolution (Set) 0.1; Display Resolution (Read) 0.1; Pump Type Pressure; Pump Speed One; Process Connections 1/2" O.D.; Barbed Tubes Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection; Failsafe Heater Control Yes; Low Liquid Level Protection Yes; Reservoir Drain Yes; Maximum Ambient; Temperature °F 95° Maximum Ambient Temperature °C 35° Overall Dimensions (L x W x H) (inches) 21.3 x 8.7 x 25.4in; Overall Dimensions (L x W x H) (cm) 54.1 x 22.1 x 64.5cm; Refrigerant R134a; Environmental Compliance RoHS, WEEE; Shipping Weight (pounds) 84.0; Shipping Weight (kilograms) 38.1; For 60 Hz Only: Maximum Pressure (psi) 2.3; Maximum Pressure (bar) 0.16 Maximum Pressure Flow Rate (gpm) 3.60 Maximum Pressure Flow Rate (l/min) 13.5 Cooling Capacity @ -20°C (W) 30 Cooling Capacity @ 0°C (W) 120 Cooling Capacity @ +20°C (W) 200 Cooling Capacity @ +100°C (W) 200 Included Hardware Fitting Kit for External Applications Heater Wattage 1100 Electrical Requirements (VAC/Hz/Ph/A) 120/60/1/12 Regulatory Approvals ETL - With one year warranty - With calibration certificate - With training</p>	
57.	<p>Dean And Stark Distillation Apparatus, Features 1.The instrument adopts solid state voltage regulator, stepless to change temperature, easy to accommodate temperature. 2.The instrument comprises single element. 3.Voltage regulator outputs without contact, sparkle and noise and it is stable. 4.Voltmeter is used to show the voltage changed by the solid-state voltage regulator, convenient to direct-view. 5.Reasonable structure with beautiful shape and safe operation. Technical Specifications: 1.Rated voltage: AC220V±10% 50Hz 2.Heating Power:0~650W (Continuously adjustable) 3.Temperature control mode: Solid-state voltage regulator (stepless) 4.Regulator display: AC Voltage Meter 0~300V 5.Ambient requirement: Temperature: 10~40oC; Humidity≤85% - With one year warranty - With calibration certificate</p>	
58.	<p>Hydrometers, Descriptions Available in a variety of models measuring Baume of syrups and other liquids heavier than water in various ranges from 0° to 70°,</p>	

	<p>these plain form hydrometers are used in the chemistry, pharmacology, food and beverage, starch industries and more.</p> <ul style="list-style-type: none"> - Lead free ballast and glass - Individually serialized - Temperature standardization: 60 °F (15 °C) - Hand inspected by our U.S. quality team <p>Certifications: Traceable to NIST.Packaging: Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy.</p> <p>Specifications:</p> <p>Range 0 – 70°</p> <p>Accuracy ±1°</p> <p>Length 300 mm</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	
59.	<p>Infrared Moisture Balance,</p> <p>Specifications:</p> <p>Weighing capacity: 200 g; Repeatability, average:</p> <ul style="list-style-type: none"> -for initial sample weight approx. > 1 g: ± 0.2 % -for initial sample weight approx. > 5 g: ± 0.05 % <p>Readability: 1 mg, 0.01 %</p> <p>Typical sample quantity: 5 – 15 g</p> <p>Result display: Moisture content in %M and g dry weight in %S and g ATRO in %M/S Temperature range and settings: 40°C–160°C, stand-by temperature selectable from 40–100°C in increments of 1°C Sample heating: Infrared radiation by an AURI heater, 600 W; Heating programs: Standard drying, gentle drying</p> <p>Shutoff parameter Optional:– Fully automatic– Semiautomatic mg (1–50 mg 5–300 sec.)– Semiautomatic % (0.1–5.0 % 5–300 sec.)– Timer settings (02:00–99.59 min.)– Manual; Access to sample chamber: Removable hood with wide opening angle, SoftClose mechanism Operator guidance features:– Intuitive user interface, including touch screen and easy-to-understand menu guidance– Weighing-in help and target value attainment function– Curve display; Methods: 100 methods saved in non-volatile memory; Method development: Assistant software guides users to develop new methods in approx. 3 easy test cycles; Methods management: Method menu with file management option, generation of a method library, up to 100 methods; Data transfer: SD card, method import and export function; Sample forceps: Easy-to-handle sample dish Performance test: Menu function to test the device's repeatability using the ReproEasy pad</p> <p>Memory for data storage: Results are saved for the last 999 measurements Status light: Displays the status “analysis running/ START”, “analysis completed/ STOP” or “analysis error”</p> <p>Sample inspection: LED-illuminated sample chamber, inspection window with grid above the hood; Mini USB – Direct data transfer to Microsoft® Windows programs without any additional software– Programmable data output interval– Data transfer protocols SBI, table format, text format; Frequency: 50/60 Hz</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With product training 	
60.	<p>Laboratory Blender,</p> <p>Two-speed, push-button operation</p> <p>Base: die-cast, epoxy-coated motor housing 1-liter, stainless steel container with handle and two-piece vinyl and styrene lid</p> <p>0.5 HP motor</p>	

	Power 230V, 50 Hz Approved CE, RoHS - With one year warranty - With calibration certificate	
61.	Spectrophotometer, Wavelength Range: 190 - 1100 nm Monochromator: 4 nm Monochromator: Single beam Littrow type, grating 1200 lines/mm Wavelength Accuracy: ± 0.8 nm Wavelength Repeatability: ± 0.5 nm Wavelength Calibration: automatic at start Light Source: Tungsten Halogen/Deuterium Lamp Detector: Solid Silicon Photodiode Photometric Readout: 1/4 VGA 320X240 pixels backlit LCD Photometric Range: 0 - 200%T -0.3 - 3.0A 0 - 9999C Photometric Accuracy: $\pm 0.5\%$ T Zero Drift: < 0.002 A per hour after warm-up Baseline Flatness: ± 0.004 A Stability: 0.002A/h at 500 nm Stray Light: $< 0.15\%$ T Scanning Speed: Hi, Med., Low. Max. 1000 nm/min Standard Sample Holder: 4-position Cell Holder Analogue/Digital Output: Digital, RS232 Serial, Centronics Parallel Dimensions: 550(L) x 420(W) x 270(H) mm Weight: 20 kg / 44 lbs Shipping Dimensions: 390(H) mm Shipping Weight: Power Requirements: 230V/50Hz, switchable Operating Temperature Room temperature: $22 \pm 2^{\circ}\text{C}$ Humidity Range: less than 85% Includes: - AVR 5KVA WITH Laptop Specifications 8-Core CPU 8-Core GPU 8GB Unified Memory 256GB SSD Storage footnote ¹ 16-core Neural Engine 13.6-inch Liquid Retina display with True Tone ² 1080p FaceTime HD camera MagSafe 3 charging port Two Thunderbolt / USB 4 ports Support for one external display Magic Keyboard with Touch ID Force Touch trackpad 30W USB-C Power Adapter M2 brings incredible performance and capability so you can blaze through everyday activities, multitask across apps, pursue your creative passions, and play your favorite games Run multiple apps and edit thousands of photos or 4K video	

	<p>Up to 12x faster than fastest Intel-based MacBook Air footnote ³</p> <p>Supports one external display</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With personnel training 	
62.	<p>Titration Apparatus,</p> <p>Extremely high chemical resistance; Smooth and light to operate with soft touch operating wheels; Media recirculation system that allows unused media to be recovered from the device and returned to the bottle; 360° rotating dispensing head; Universal connector at the back of the unit for drying tubes and filters; Easy to attach aspiration tube with a secure threaded connection; User replaceable valves; Supplied with UV-protected replacement window for light sensitive media protection Long life CR2032 battery; Easy custom adjustment for various liquids; Wide range of accessories; Autoclavable liquid pathway; Wide range of adapters included to fit most common bottle sizes; Weight 844 g (20 mL); Length 260 mm (20 mL); Autoclavability Autoclavable liquid pathway (121 oC, 20 min, 1 bar/100 kPa); Threaded bottle fitting A45; Bottle adapters included A32, A38, S40 Battery CR2032; Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655.; Test temperature: 15 oC to 30 oC +/- 0,5 oC Relative humidity: > 50%; Transportation conditions Temperature: 0 oC to 40 oC; Long-term storage conditions Temperature: 0 oC to 40 oC; Chemical resistance Information available on request; Materials Piston: Compound Halar (ECTFE) Cylinder: Borosilicate glass 3.3 Valve block: Halar (ECTFE); Valve mantle: Halar (ECTFE) Valve ball:; Borosilicate glass 3.3 Valve seat: Borosilicate glass 3.3; Valve spring: Hastelloy Tubes: FEP Sealing rings: PTFE; Nominal Volume(ml): 50; Readability(ml): 0.01; Test Volume(ml): 50 Systematic Error* [%]: 0.2 Systematic Error* [mL]: 0.10 Random Error* [%]: 0.1 Random Error* [mL]: 0.05</p> <p>Includes:</p> <ul style="list-style-type: none"> - 1 Liter Amber Bottle - With one year warranty - With calibration certificate - With personnel training 	
63.	<p>Vortex Mixer,</p> <p>Type of movement orbital</p> <p>Shaking stroke 4.5 mm</p> <p>Permissible shaking weight (incl. attachment) 0.5 kg</p> <p>Motor rating input 10 W</p> <p>Motor rating output 8 W</p> <p>Permissible ON time 100 %</p> <p>Speed min (adjustable) 200 rpm</p> <p>Speed range 0 - 3000 rpm</p> <p>Speed display scale</p> <p>Operating mode continuous operation</p> <p>Touch function yes</p> <p>Working with microtiter plates yes</p> <p>Number of microtiter plates 1</p> <p>Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2.9 kg</p> <p>Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80 %</p>	

	<p>Protection class according to DIN EN 60529 IP 21 Voltage 100 - 240 V Frequency 50/60 Hz Power input 20 W DC Voltage 24 V= Current consumption 800 mA Includes: MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert - With one year warranty - With calibration certificate</p>	
64.	<p>Differential Scanning Calorimeter, Specifications: This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance. Temperature range: –180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Temperature range: –180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature precision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum crucible (40 µl, for crimping) - Aluminum lid for 40µl and 100µl crucibles for crucibles 30293043 and30293045, non pierced -Pierced aluminum lid for 40µl and 100µl crucibles for crucibles 30293043 and 30293045 - -L40/3051 manual gas control 1 gas - Liquid Nitrogen Quench-Cooling Option - High sensitivity ceramic sensor for chip DSC, High resolution Sensor for maximum sensitivity (up to +35%). Recommended for polymer applications (e.g. glass transition, melting point and crystallization) Compatible with all Chip- DSC systems and accessories.</p>	

	<ul style="list-style-type: none"> - State of the Art Desktop-PC incl. Windows© OS Intel Core i3-1300, 8GB, DDR4, >23,8" - Software module for temperature modulation (Cp determination) - Starter Kit - UPS 5KVA - AVR 5KVA - With one year warranty - With calibration certificate - With personnel training 	
65.	<p>Frequency Generator, Reliable and User Friendly Frequency range: 1HZ-2 kHz. Waveform: sine square and triangular. TTL output: controllable ± 13 Volts when auxiliary input of 15 Volts is used, 9 volts if batteries are used. Can use an external power supply or two 9V batteries, not included. Two potentiometers for frequency and amplitude are featured on this generator along with two dials for selection of frequency and waveform. Two outputs - the alternating signal and the TTL signal are also included.</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	
66.	<p>Gas Meter, 4 In 1 High-Quality Electrochemical Gas Sensor 1800mAh with 2 Alarm Types Toxic Level Meter Measuring gas: Carbon monoxide, hydrogen sulfide, combustible gas, oxygen; Response time: < 30s; Display error: Carbon monoxide ($\leq 10\%$ (relative error)), hydrogen sulfide (± 5ppm) combustible gas ($\pm 5\%$FS), oxygen ($\pm 3\%$FS) Indication mode: LCD indicates real-time data, LED, sound, and vibration alarm. Alert: Sound alarm: 85 dB/30 cm away; Visual alarm: highlight LED; Vibration alarm; LCD display: over the set limit, low battery power Applicable temperature: $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$ Applicable humidity: < 90% RH no condensation Working voltage: DC 3.7V 1800 mAh lithium battery; Charging specifications: Type-C DC 5V 1A Sensor life: 2 years Sensor principle: Electrochemical and catalytic combustion</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	
67.	<p>Water Activity Meter, -Working temp. $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$; Working humidity 0~95% RH; Display LCS Display; Measuring range temperature $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$; Water Activity 0~1.000aw; Measurement accuracy temperature $\pm 0.5^{\circ}\text{C}$ water activity ± 0.012(@$23^{\circ}\text{C} \pm 5^{\circ}\text{C}$); Measurement time 5~40min; Measurement points 1~4; Temperature coefficient $\leq 0.0005/^{\circ}\text{C}$; Activity Repeatability ≤ 0.008</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With personnel training 	
68.	<p>Hot Plate/Magnetic Stirrer, Number of stirring positions 1 Stirring quantity max. per stirring position (H₂O) [l] 10 Motor rating output [W] 1.5 Direction of rotation left Speed control scale 0 - 6 Speed range [rpm] 100 - 1500 Stirring bar length max. [mm] 80</p>	

	<p>Heat output [W] 1000 Heating temperature range [°C] 50 - 500 Heat control LED Heating rate heating plate [K/min] 5 Connection for ext. temperature sensor ETS-D5 Fixed safety circuit [°C] 550 Set-up plate material ceramic Set-up plate dimensions [mm] 180 x 180 Dimensions (W x H x D) [mm] 220 x 105 x 330 Weight [kg] 5 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 Voltage [V] 230 / 120 / 100 Frequency [Hz] 50/60 Power input [W] 1020 - With one year warranty - With calibration certificate</p>	
69.	<p>F1 1 kg -w/ DAKKS Certification, Specifications: F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas. Nominal value – 1 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 1000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates</p>	
70.	<p>E2 set of Weight 1g -200g w/ DAKKS Certification, Specifications: Class E2 Standard weights are adjustment, test, official verification and calibration weights for Class I precision scales and are used for quality assurance of scales with a number of steps < 1 000 000 according to. DIN EN ISO 9001ff etc. Nominal value – 1g to 200g Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 610 grams Consisting of 11 pcs. Weight Retention – Mahogany Box Certifications – DAKKS Certificates</p>	
71.	<p>F1 2 kg -w/ DAKKS Certification, Specifications: F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas. Nominal value – 2 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 2000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates</p>	
72.	<p>Water Bath, -Working temperature range 5°C - 100°C -Temperature stability ±0.1°C</p>	

	<ul style="list-style-type: none"> -Temperature calibration capability 1-point -Working access (LxWxD) 24.1x43.2x15.2cm -Flammability class (DIN 12876-1) I (NFL) -Displays actual and set point temperature simultaneously -Programmable presets for frequently used temperatures -Intergrated timer -Primary and automatic safety thermostats -Also compatible with waterless bath beads -Reservoir Capacity 20 Liters -Reservoir tank material: Stainless Steel -Reservoir cover: Hinged Gable -Over temperature protection/ failsafe heater control: yes -Reservoir drain: Yes -Maximum ambient temperature 40°C -Overall Dimension (LxWxH) 38.4x57.2x38.4cm -Shipping Weight 11.3 kg - With one year warranty - With calibration certificate 	
73.	<p>Fumehood,</p> <p>External Size (W*D*H) 1247*800*2450mm</p> <p>Internal Size (W*D*H) 987*560*700mm</p> <p>Work Surface Height 820mm</p> <p>Max Opening 740mm</p> <p>Air Velocity 0.3~0.8m/s</p> <p>Noise ≤68dB</p> <p>Illuminating Lamp</p> <ul style="list-style-type: none"> -LED lamp -30W*1 <p>Blower</p> <ul style="list-style-type: none"> -Built-in PP centrifugal blower (2 blowers for FH1800(P) only); <p>Speed adjustable</p> <p>Front Window</p> <ul style="list-style-type: none"> -Resistant to acid and alkali, Manual, 5mm toughened glass, height adjustable. <p>Power Supply AC220V±10%, 50/60Hz; 110V±10%, 60Hz</p> <p>Consumption 360W</p> <p>Material:</p> <ul style="list-style-type: none"> -Main Body Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion -Work Table Chemical resistant phenolic resin <p>Standard Accessory:</p> <ul style="list-style-type: none"> -Illuminating Lamp, Water tap, Gas tap, Water Sink, Base cabinet -Waterproof socket*2, PP centrifugal blower, pipe strap*2(4 Pcs for FH1800(P) only) -4 meters PVC duct -(2 Pcs of 4 meters PVC dust for FH1800(P) only), <p>Diameter:250mm</p> <ul style="list-style-type: none"> - PP work table, epoxy resin board or ceramic board, Active carbon filter, <p>Optional Accessory</p> <ul style="list-style-type: none"> -Outer PVC centrifugal blower (only need to select when the duct more than 4m) <p>Gross Weight 253kg</p> <p>Package Size(W*D*H)</p>	

	-Main Body 1388*938*1612mm -Base Cabinet 1388*888*1000mm Includes: -AVR 5KVA -With one year warranty with installation	
74.	Nitrogen Distillation Apparatus, 500ML Nitrogen Kjeldahl Flask 200mm Length Graham Condenser Connecting Distillation Head Joints:24/40 The 500ml distilling apparatus is used for determining nitrogen in organic compounds. This assembly includes a Kjeldahl flask specifically developed for this process and a Graham condenser with 10mm O.D. tubulations. The connectiong distillation head is 24/40 joints. - With one year warranty - With calibration certificate	
75.	Dessicator, -Borosilicate Glass Desiccator is common equipment in labs, ideal for drying, preserving, or storing moisture-sensitive substances -Include porcelain plate to separate sample and desiccant -Inner diameter: 9.4 inch; Outer diameter: 12 inch; Height: 13 inch -Borosilicate glass, heavy duty and reusable - with one year warranty	

Note: Bidders must state in the Statement of Compliance either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provision of **ITB** Clause 4.

Attached herewith are the manufacturer’s product literature(s) and certification(s) that we are authorized to sell the goods.

We certify that the foregoing information and the supporting documents are true and correct.

[Signature]
 [Name of Authorized Signatory]
 [Position/Title of Authorized Signatory]

Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES)
CITY/MUNICIPALITY OF _____) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

1. **Select one, delete the other:**

- b. *If a sole proprietorship:* I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];
- c. *If a partnership, corporation, cooperative, or joint venture:* I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

2. **Select one, delete the other:**

- a. *If a sole proprietorship:* As the owner and sole proprietor, or authorized representative of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached duly notarized Special Power of Attorney;
 - b. *If a partnership, corporation, cooperative, or joint venture:* I am granted full power and authority to do, execute and perform any and all acts necessary to participate, submit the bid, and to sign and execute the ensuing contract for [Name of the Project] of the [Name of the Procuring Entity], as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate, Board/Partnership Resolution, or Special Power of Attorney, whichever is applicable)];
3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board, by itself or by relation, membership, association, affiliation, or controlling interest with another blacklisted person or entity as defined and provided for in the Uniform Guidelines on Blacklisting;
4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;
5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

6. **Select one, delete the rest:**

- a. *If a sole proprietorship:* The owner or sole proprietor is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;
- b. *If a partnership or cooperative:* None of the officers and members of [Name of Bidder] is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of

the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

- c. *If a corporation or joint venture:* None of the officers, directors, and controlling stockholders of *[Name of Bidder]* is related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), the Technical Working Group, and the BAC Secretariat, the head of the Project Management Office or the end-user unit, and the project consultants by consanguinity or affinity up to the third civil degree;

7. *[Name of Bidder]* complies with existing labor laws and standards; and

8. *[Name of Bidder]* is aware of and has undertaken the following responsibilities as a Bidder:

- a. Carefully examine all of the Bidding Documents;
- b. Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;
- c. Made an estimate of the facilities available and needed for the contract to be bid, if any; and
- d. Inquire or secure Supplemental/Bid Bulletin(s) issued for the *[Name of the Project]*.

9. *[Name of Bidder]* did not give or pay directly or indirectly, any commission, amount, fee, or any form of consideration, pecuniary or otherwise, to any person or official, personnel or representative of the government in relation to any procurement project or activity.

10. In case advance payment was made or given, failure to perform or deliver any of obligations and undertakings in the contract shall be sufficient grounds to constitute criminal liability for Swindling (Estafa) or the commission of fraud with unfaithfulness or abuse of confidence through misappropriating or converting any payment received by a person or entity under an obligation involving the duty to delivery certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__ at _____, Philippines.

Bidder's Representative/Authorized Signatory

SUBSCRIBED AND SWORN to before me this ___ day of *[month]* *[year]* at *[place of execution]*, Philippines. Affiant/s is/are personally known to me and was/were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-SC). Affiant/s exhibited to me his/her *[insert type of government identification card used]*, with his/her photograph and signature appearing thereon, with no. _____ and his/her Community Tax Certificate No. _____ issued on ___ at _____.

Witness my hand and seal this ___ day of *[month]* *[year]*.

NAME OF NOTARY PUBLIC

Serial No. of Commission _____

Notary Public for _____ until _____

Roll of Attorneys No. _____

PTR No. _____ *[date issued]*, *[place issued]*

IBP No. _____ *[date issued]*, *[place issued]*

Doc. No. _____

Page No. _____

Book No. _____

Series of _____

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

NET FINANCIAL CONTRACTING CAPACITY

Based on our Income Tax Return and Audited Financial Statement for the Fiscal Year [YEAR], duly submitted to the Bureau of Internal Revenue, and which form part of our Bid, the summary of our firm's financial condition is as given below:

		Year [YEAR]
1.	Total Assets	
2.	Current Assets	
3.	Total Liabilities	
4.	Current Liabilities	
5.	Net Worth (1-3)	
6.	Net Working Capital (2-4)	

Based on the aforementioned data and the Value of Outstanding Works from the Statement of All Ongoing Government and Private Contracts, which also form part of our Bid, our Net Financial Contracting Capacity (NFCC) is:

NFCC = [(current asset minus current liabilities) (**15**)] minus [value of all outstanding or uncompleted portions of the projects under ongoing contracts including awarded contracts yet to be started coinciding with the contract to be bid].

NFCC =

I/We certify that the foregoing information and all of the supporting documents are true and correct.

[Signature]
[Name of Bidder or Authorized Representative]
[Position or Title]

[Bidder's Letterhead]

[Date]

FINANCIAL BID FORM

To: Tarlac State University
Re: Invitation to Bid No.

Having examined the Bidding Documents [*insert if any or delete, if none: including Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledged*], we, the undersigned, offer to [*supply/deliver/perform*] [*description of the Goods*] in conformity with the said Bidding Documents for the sum of [*total Bid amount in words and figures*] or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

If our Bid is accepted, we commit to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our Bid is accepted, we undertake to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.

We agree to abide by this Bid for the Bid Validity Period specified in **ITB** Clause 14.2 and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements as per **ITB** Clause 5 of the Bidding Documents.

We likewise certify/confirm that the undersigned, [*for sole proprietorships, insert: as the owner and sole proprietor or authorized representative of [Bidder], has the full power and authority to participate, submit the bid, and to sign and execute the ensuing contract, on the latter's behalf for the [Name of Project] of the Tarlac State University*] [*for partnerships, corporations, cooperatives, or joint ventures, insert: is granted full power and authority by the [Bidder], to participate, submit the bid, and to sign and execute the ensuing contract on the latter's behalf for [Name of Project] of the Tarlac State University*].

We acknowledge that failure to sign each and every page of this Financial Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Dated this _____ day of _____ 20_____.

[signature]

[in the capacity of]

Duly authorized to sign Bid for and on behalf of _____

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

SCHEDULE OF PRICES

Item No.	Description	Qty.	Unit	Unit Price	Total Price
Lot No. 1 – Production Tools and Equipment					
1.	Commercial Vertical Gas Boiler, Rated Steam Capacity (t/h): 1 Rated steam pressure (Mpa): 0.4/0.7 Rated steam temperature (°C): 151 Fuel consumption (Nm ³ /h): 78, 65 and 28 Weight (Kg): 2561 Size(mm): 2468*φ1358 with 1 year warranty with installation	1	unit		
2.	Commercial Industrial Bubble Fruit and Vegetable Washing Machine, warranty of core components:1 Year Core Components: Motor Model Number: 600-800-1000-1200 Weight: 800 KG Voltage: 220V/380V Power: 3.75 Dimension(L*W*H): 4000*1300*1400mm Washing type: Water Bubble Washing Capacity 200-2000 kg / h Function Air Bubble Water Washing Machine with 1 year warranty with installation	1	unit		
3.	Full Automatic Collagen Drink Fruit Juice Horizontal Filling Machine Premade Bag Doypack Juice Soda Liquid Packing Machine, Function FILLING, Sealing Packaging Type Stand-up Pouch, Bags, Pouch Packaging Material Plastic, Wood Other attributes Production Capacity 25bag/min warranty 2 years Key Selling Points Long Service Life Machinery Test Report Provided Video outgoing-inspection Provided warranty of core components 1 Year	1	unit		

	<p>Core Components Motor, PLC, Engine Type Multi-Function Packaging Machine Condition New Driven Type Pneumatic Voltage 110V/220V/380V/415V Dimension(L*W*H) 2000*800*1500mm Name Horizontal pouch packing machine Material Stainless Steel 304/316 Main Function Filling, sealing, date printing Bag type Stand-up bag, zipper bag, etc Bag material PE, Laminated film , paper bag Bag sealing type Heat sealing, sewing, glue brushing Speed 25bags/min Bag width 70-280mm Bag length 80-440mm with 1 year warranty with installation</p>				
4.	<p>Automatic Liquid Packaging Machine Sachet Bag Water Filling Packing Machine, Production Capacity: 20-40bags/min, Weight (KG): 300 warranty: 1 Year, Electric Voltage AC 220V/50HZ 110V/60HZ, Dimension(L*W*H) 730*750*1700mm Packing range: 5-300ml Packing Film Composite material: OPP/ CPP,OPP/CE,MST/PE/PET/PE Forming bag dimension L40-200mm W25-150mm (can be customized) Sealing type: Three sides sealing, back sealing Machine material: Stainless steel Measure method: Piston Advantage: Stable working Control system: PLC+touch Screen with installation</p>	1	unit		
5.	<p>High Speed Automatic Bottle Filling Machine, Machine Model: ZS-AFC28, Voltage: 220V/110V 50-60Hz, Power: 3kW, Production Speed: About 40 bottles/min (dependent on bottle size and filling materials), Filling Range: 10-1000ml (can be customized), Filling Pump: Peristaltic Pump, Max Flow rate: 6L/min (based on water), Suitable Bottle Size: Can be Customized, Bottle Cap Size: Can Be Customized, Air Pressure: 0.5-0.7 MPa, Machine Size: 2050*1800*1500mm, Packaging Weight: About 725kg (Filling Machine)</p>	1	unit		

	About 78kg (Vibratory Bowl), Packaging Size: About 2080*1000*1960mm (Filling Machine) About 1020*610*580mm (Vibratory Bowl) with installation				
6.	Full-Automatic Planetary Agitator Jacketed Kettle, Model: 2GL200 (200L Capacity), Pot Diameter: 1000mm, Depth: 470mm, Agitation Power: 2.2kw, Hydraulic Power: 1.1kw, Volt/Hz: 380v50hz, Heating: Steam, Gas and Electric. with 1 year warranty with installation	1	unit		
7.	Noodle Maker, stainless steel; 80kg/h High Efficiency Automatic Noodle Macaroni Spaghetti Maker Machine Pasta Extruder Making Machine; can do noodle, small shell, five-pointed star, small screw, fruit and vegetable noodle, crispy rice, pizza roll, hollow pattern, conch noodles, cat ears, etc.; capacity: 60-80kg/h; size: 70*48*90cm; net weight: 100kg; incl. factory calibration certificate	2	lot		
8.	Universal Pin Mill Grinder Stainless Steel Hammer Mill Herb Spice Pulverizer Machine, Output (kg/h) 20 - 1000 kg/h Feeding Size (mm) 6 - 15 mm Output Size (mesh) 12 - 120 mesh Other attributes Application Chemicals Processing, Food Processing, Condition New, Type Grinder Place of Origin China Weight (KG) 600 KG, warranty 1 Year	2	unit		
9.	Table-top Pulverizer, stainless steel; capacity: 5-8kgs/hr; high speed grinding; full copper motor; different size grinding; incl. factory calibration certificate	2	lot		
10.	Fruit and Vegetable Juice Extractor Machine, industrial type; multi-purpose; automatic fruit juice screw press; with food grade pushing rod; detachable stainless steel juicing net inside the machine; heavy duty base; incl. factory calibration certificate with installation	2	lot		

11.	Food Processor, multipurpose/3-in-1; four interchangeable stainless-steel blades for slicing: fine, coarse, shredding, and chopping; bowl & housing material: plastic; blade material: stainless steel; safety locking lid; non-slip feet; two speed setting	3	lot		
12.	Extruder, Interchangeable Plates; Material: Stainless Steel 304; Voltage: 220V; Dimension: 70x47x90cm; Weight 120kg; Power 3000W; With one year warranty; With product training	1	unit		
13.	Can Seamer, semi-auto bench top can seamer; for 12oz,16oz, 330ml, 500ml cans; power: 250W 24V DC;rated speed: 3300 RPM; fast seaming process; incl. calibration certificate; With one year warranty	1	unit		
14.	Microwave, -25L capacity -Easy clean coating (Antibacterial) -Stable turntable -Dimension (LxWxH): 369x476x272mm -Smart Inverter -Power Output 1000W -Required power supply 230V/60Hz -Cooking Modes: Inverter Defrost; Melt; Proof; Soften; Warm -With one year warranty	2	unit		
15.	Electric Kettle, -Fast boiling and auto-off feature -Stainless Steel concealed Heater -360° Rotating Stainless-Steel Body -Weight: 0.77kg -Dimensions: L 13.97xW 20.57x 20.06cm -1 Liter Capacity -1 Year warranty on parts and service -Push button lid	5	unit		
16.	Deep Fryer, -The whole machine adopts a detachable design. The lid, basket, handle, tank, heater, and oil residue partition can all be disassembled for easy cleaning; simple installation -Adjustable temperature range: 60 to 200°C (140 to 392°F), Suit for 110v, 60Hz, Power: 2500W each fryer, total: 5000W; oil can be heated quickly -The whole machine is designed with two independent heaters, and the capacity of each fryer is 6L, a total of 12L. Two independent power supplies can work at the same time, or use only one of them, which	2	unit		

	<p>is convenient to control and save power. Package size:about 22.2*17.9*12.2inch (56.5*45.5*31cm) -Package included: 1x stainless steel frame; 1x manual; 2xPCS electric fryer controller; 2xPCS stainless steel tank; 2xPCS stainless steel basket; 2xPCS handle; 2xPCS stainless steel lid; 2xPCS stainless steel partitions -With one year warranty</p>					
17.	<p>Rotary Oven, dimensions: (H*W*D) 2300x1800x1900 mm; weighing 1300 kg; Voltage: 400 Volt; Power: 48 Kw; Large baking capacity: containing baking Frame, baking 32pans each time; Saving the cost: stainless steel tubes and imported electric burner; Extra- thick health insulation material; incl. calibration certificate; with one year warranty with installation</p>	2	unit			
Total Bid Amount for Lot No. 1						

[Signature]
[Name of Authorized Signatory]
[Position/Title of Authorized Signatory]

[Bidder's Letterhead]

[Date]

To: Tarlac State University
Re: Invitation to Bid No.

SCHEDULE OF PRICES

Item No.	Description	Qty.	Unit	Unit Price	Total Price
Lot No. 2 – Laboratory Tools and Equipment					
18.	Vacuum Oven, Performance Data Temperature Heating-up time to 100 °C [min] 80 Temperature fluctuation [± K] 0.1 Temperature range +10 °C above ambient temperature to [°C] 220; Temperature range +9 °C above ambient temperature to [°C] 220; Temperature variation at 100 °C [± K] 1.2 Vacuum Data; Leak rate [bar/h] 0.01 Electrical data; Nominal power [kW] 1.4; Phase (Nominal voltage)1~ Power frequency [Hz] 50/60 Rated Voltage [V] 200...230 Unit fuse [A] 8 Connections; Compressed air connection for pressure- encapsulation [NW] 5; Measuring access port with small flange [DN mm] 16; Universal connection for air / inert gas with flow limiter; thread (RP") 3/8 Vacuum connection with small flange [DN mm] 16 Doors; Unit doors 1; Housing dimensions not incl. fittings and connections; Depth net [mm] 461; Height net [mm] 815; Width net [mm] 638 Internal Dimensions; Depth [mm] 343; Height [mm] 400; Width [mm] 400 Measures; Interior volume [L] 55; Load per rack [kg] 20; Net weight of the unit (empty) [kg] 95 Permitted load [kg] 60; Viewing window height [mm] 420 Viewing window width [mm] 420; Wall clearance back [mm] 100; Wall clearance sidewise [mm] 70 Environment-specific data Sound-pressure level [dB(A)] 40 Fixtures Number of shelves (std./max.) 1/5 With Vacuum Pump Technical Specifications:	1	unit		

	<p>Max. temperature of liquid media: 5 – 40 °C</p> <p>Flow Rate 22 L/min</p> <p>Maximum Viscosity < 150 cSt</p> <p>Pump Flow 22 l/min</p> <p>Operating Conditions</p> <p>Maximum Vacuum 100 mbar</p> <p>Operating Current 0.9 A</p> <p>Operating Pressure 1 bar</p> <p>Power Requirements</p> <p>Input Wattage 130 Watts</p> <p>Line Frequency 60 Hz</p> <p>Line Voltage 115 V</p> <p>Power Requirements 115 V - 60 Hz</p> <p>Product Information</p> <p>Type of Pump Vacuum Pump</p> <p>Includes:</p> <ul style="list-style-type: none"> -AVR 5KVA -With vacuum pump included - With one year warranty - With calibration certificate - With personnel training 				
19.	<p>Drying Oven Convection,</p> <p>Specifications:</p> <p>Temperature range [°C] 60...230</p> <p>Heating-up time to 150 °C [min] 36</p> <p>Recovery time after 30 seconds door open at 150 °C [min] 19</p> <p>Electrical data</p> <p>Nominal Voltage [V] 230</p> <p>Power frequency [Hz] 50/60</p> <p>Nominal power [kW] 0.8</p> <p>Phase (Nominal voltage) 1~</p> <p>Measures</p> <p>Interior volume [cu.ft.] 1</p> <p>Net weight of the unit (empty) [lbs] 49</p> <p>permitted load [lbs] 55</p> <p>Load per rack [lbs] 22</p> <p>Wall clearance back [in] 6.3</p> <p>Wall clearance sidewise [in] 3.94</p> <p>Internal Dimensions</p> <p>Interior width [in] 15.76</p> <p>Interior height [in] 11.03</p> <p>Interior depth [in] 9.85</p> <p>Doors</p> <p>Unit doors 1</p> <p>Housing dimensions not incl. fittings and connections</p> <p>Width net [in] 22.85</p> <p>Height net [in] 15.96</p> <p>Depth net [in] 16.74</p> <p>Fixtures</p> <p>Number of shelves (std./max.) 2/4</p> <p>Benefits:</p>	1	unit		

	<p>Uniform drying conditions thanks to APT.line™ technology</p> <p>Identical test conditions throughout the chamber interior independent of sample size and quantity</p> <p>Outstanding thermal insulation saves operation costs</p> <p>MAIN FEATURES:</p> <ul style="list-style-type: none"> • Temperature range: 60 °C to 230 °C • Adjustable exhaust air flap • Hydro-mechanical thermostat • Class 1 temperature limitation device (Model E028-230V-T) • Timer 0 – 120 min • 2 chrome-plated racks- With one year warranty - With calibration certificate - With personnel training 				
20.	<p>Air Oven,</p> <ul style="list-style-type: none"> • Temperature range: +5 °C above ambient temperature to +300 °C • Force convection • Controller with LCD display • Electromechanical control of the exhaust air flap • 2 chrome-plated racks • Stackable • Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm • Ergonomic handle design • USB port for recording data • Best energy efficiency on the market • Excellent temporal and spatial temperature accuracy • USB connection for recording data <p>Technical Specifications</p> <p>Performance Data Temperature; Heating-up time to 150 °C [min]18; Recovery time after 30 seconds door open at 150 °C [min]4; Temperature fluctuation at 150 °C [± K] 0.3; Temperature range +10 °C above ambient temperature to [°C] 300; Temperature variation at 150 °C [± K]1.7; Air change data; Air change (approx.) at 100 °C [x/h]32</p> <p>Electrical data; Nominal power [kW] 1.3 Phase (Nominal voltage)1~; Power frequency [Hz] 50/60 Rated Voltage [V] 230 Unit fuse [A] 6.3 Doors; Unit doors 1</p> <p>Housing dimensions not incl. fittings and connections; Depth net [mm] 605; Height net [mm] 735 Width net [mm] 710 Internal Dimensions; Depth [mm] 385; Height [mm] 550 Width [mm] 550 Measures; Interior volume [L] 116 Load per rack [kg] 30; Net weight of the unit (empty) [kg]; Permitted load [kg] 150 Wall clearance back [mm] 160</p>	2	unit		

	<p>Wall clearance sidewise [mm] 100</p> <p>Environment-specific data</p> <p>57; Energy consumption at 150 °C [Wh/h]340; Sound-pressure level [dB(A)] 4</p> <p>Fixtures; Number of shelves (std./max.) 2/5</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 				
21.	<p>Laboratory Metal Trays,</p> <p>Color Metal Silver</p> <p>Material Stainless Steel</p> <p>Product Dimensions 12"L x 9"W x 1"H</p> <p>Is Dishwasher Safe Yes</p> <p>Material Type Free Chemical Free</p> <p>Item Weight 4.69 pounds</p>	10	piece		
22.	<p>Air Compressor,</p> <p>portable cordless; air compressor kit; 2.5 Gallons; 140 PSI; brushless motor with a heavy-duty oil-free pump; with battery & charger; air delivery of 1.0 SCFM at 90 psi; drive up to 970 nails per charge; air flow capacity: 1 cubic feet per minute; maximum pressure: 140; battery type: lithium ion; With one year warranty</p>	1	unit		
23.	<p>Metal Tray,</p> <ul style="list-style-type: none"> - Material: Stainless Steel 304 - Dimension (LxWxH): 12"x6"x1" - Bottom Inside Length: 11" - Bottom Inside Width: 6" - Seamless 	15	piece		
24.	<p>Rubber Tongs,</p> <ul style="list-style-type: none"> -Material: Silicone -Style: non stick -Dimensions: 13.78x1.77x1.69 inches -Heat resistant -Easy to lock -Set of 2-9 pcs 	5	set		
25.	<p>Kitchen Scissors,</p> <ul style="list-style-type: none"> -Material: Stainless Steel -Dimension: 8.73"Lx3.62"W -Blade Length: 3.82 inches -Handle Material: Stainless Steel 	5	piece		
26.	<p>Kitchen Knife Set,</p> <ul style="list-style-type: none"> -Set Includes: 1x 8" Chef Knife, 1x 8" Slicing Knife, 1x 8" Bread Knife, 1x 7" Santoku Knife, 1x 5" Santoku Knife, 1x 5" Utility Knife, 1x 3" Paring Knife, 6x 5" Steak Knife, 1x Utility Scissors, 1x Acacia Block -High Carbon Blades: Made with premium 7Cr17 High Carbon Steel that provides a razor-sharp professional quality blade. The steel contains 0.6-0.75 carbon, making it 	5	set		

	<p>two times tougher than other knives in its class with a Rockwell Hardness of 57-58</p> <p>-Comfort & Control: The knives are integrated with a soft and comfortable Pakka Wood handle, creating the perfect grip. The ergonomic shape enables the right balance between the handle and the thin blade, ensuring ease of movement</p> <p>-Block: Constructed from robust and durable Acacia Wood, the block features deep slots designed to safeguard the sharp blades, ensuring both protection and secure storage.</p>				
27.	<p>Spoon And Fork Set,</p> <p>-Material: 18/10 Stainless</p> <p>-8" Dinner Fork x 8</p> <p>-6.5" Teaspoon x 8</p>	10	set		
28.	<p>Stainless Bowl,</p> <p>-Material: Stainless Steel</p> <p>-Dimension: 6" Height, 14" Diameter</p>	10	piece		
29.	<p>Chopping Board,</p> <p>-Material: Polypropylene Plastic</p> <p>-Product Dimension: 14"Lx11"Wx0.5Th</p> <p>-Color: White</p> <p>-Easy to clean</p>	10	piece		
30.	<p>Kitchen Hood,</p> <p>-90cm island hood</p> <p>-Stainless Steel</p> <p>-3 speed push button control</p> <p>-Washable aluminum grease filter</p> <p>-900m³/h max. air capacity</p> <p>-150mm diameter ducting outlet</p> <p>-With one year warranty</p>	3	unit		
31.	<p>Stainless Table,</p> <p>-Material: Stainless steel 304</p> <p>-Fabricated</p> <p>-Dimension: 60"Wx36"D</p> <p>-With under shelf</p> <p>-With one year warranty</p>	1	unit		
32.	<p>Stainless Table with Sink,</p> <p>-Material: Stainless Steel 304</p> <p>-Sink Dimension: 12in depth; 16in Length; 20in width</p> <p>-Table Dimension HxLxW: 40.5"x60in"x30"</p> <p>-Includes Faucet</p> <p>-Includes Drainboard</p> <p>-Includes Back Splash</p> <p>-Back Splash Height: 5"</p> <p>-With under shelf</p>	1	unit		
33.	<p>Reusable Ice Packs,</p> <p>-Sturdy</p> <p>-Capacity: 200ml</p> <p>-Re freezable</p>	5	packs		

	<ul style="list-style-type: none"> -Sheets is refrigerant made and non toxic materials -Heavy duty washable plastic material -20 pieces per pack 				
34.	<p>Cooking Kitchen Utensil Set,</p> <ul style="list-style-type: none"> -14 pcs Heat resistant set (Turner, Tongs, Spatula, Spoon, Brush, Whisk, Wooden Handle Grey gadgets with holder for non stick cookware -Heat resistant, Non melting, Wooden handle -Easy to clean -Food grade silicone, odorless 	4	pack		
35.	<p>Dinner Plate,</p> <ul style="list-style-type: none"> -Material: Ceramic -Color: White -Microwave, Oven and dishwasher safe -Shape: Round -Dimension: 10.5"Lx10.5"Wx1"H -Easy to clean -Includes 12 pieces per pack 	5	pack		
36.	<p>Anti Vibration Tables,</p> <ul style="list-style-type: none"> -Stainless Steel -Balance performance maximised by elimination of vibrations -Custom designed elastomeric isolators built into worktop -Ideal for larger balances thermal analyser and similar instruments -With one year warranty -Dimension: 30"H; 48"W -Capacity: 25kg 	4	piece		
37.	<p>Central Laboratory Table,</p> <ul style="list-style-type: none"> -Dimension (mm): 1200x3600x800 -Material: Top board/Cellon (Phenolic resin composit), Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/ Steel square pipe(melamine baking coating) with legs/ level adjuster with installation 	1	unit		
38.	<p>Laboratory Table (Side),</p> <ul style="list-style-type: none"> -Dimension (mm): 750x3600x800 -Material: Top Board: Cellon (Phenolic Resin Composit); Edge/PP (Polypropylene) 45mm Finish -Frame: Two-sided melamine decorative particle board, Frame/Steel square pipe (melamine baking coating) with legs/level adjuster with installation 	2	unit		
39.	<p>Jar Lifter,</p> <ul style="list-style-type: none"> -Measures: 8.75" x 3" x 1.5" / 22cm x 	10	piece		

	7.5cm x 4cm -Vinyl coated grip clamps securely on jar tops -Material: Stainless				
40.	Sensory Booths with sink (Modular), -1.00mWx1.00mLx2.10mH Sensory Booth fabricated with 3/4"thk. Laminated Marine Plywood - Plain White Finish (Non-glossy) including wood edging; with 0.34mWx0.40mH Counter Opening to be covered with vertical sliding door; Equipped with 1 - Acid resistant polypropylene sink with drainboard and 1-WSF Gooseneck Water Faucet complete with trap, drain fittings; 10pcs (5pcs back-to-back) - 6500 K temperature lighting that can provide colored light sources complete with wirings and switches; and complete accessories with installation	17	set		
41.	Chest Freezer, HD Inverter Chest Freezer Dual Function Technology (Freezer or Chiller) Solid Top with Glass Cover Inside Digital Temperature control w/ LCD Display Galvanized Interior LED Light Recessed Handle with Key Lock Roller Feet Dimension (HxWxD): 85 x 112 x 70 cm Warranty: 1 Year on Service 2 Years on Parts 5 Years on Compressor	1	unit		
42.	Freezer, 43 cu. Ft. upright freezer; 8 adjustable shelves; Full Stainless Steel 304 (Body and Door); Digital Temperature Control; Roller Feet with Stopper; LED Lighted Interior; Key lock; Dimension (HxWxD): 200x134x81cm; with one year warranty; with calibration certificate.	1	unit		
43.	Refrigerator, -Dimensions: L 63.7 x W 55.5 x H 163.5 (cm) -9.1 cu.ft. Two Door No-Frost Refrigerator -Digital Inverter Compressor -All-Around Cooling System -EZ Slide-out Shelf -Adaptive Defrost Control -12 Hours Cool Pack -Deodorizing Filter	2	unit		

	-1 Year Warranty on Parts & Service -10 Years Warranty on Compressor				
44.	Induction Cookware Set, -Material: Aluminum -Color: Matte Black -Size: 10 Piece -Handle Material: Stainless Steel -Dishwasher Safe: Yes -Compatibility Option: Electric, Glass-Ceramic, Gas, Induction stovetop suitable -Closure Material: Glass - Included Components: 1.5-Quart Saucepan with lid, 3-quart saucepan with lid, 6-quart stockpot with lid, 11.25-inch grill pan, 8.25-inch frying pan, 10-inch frying pan with lid	5	set		
45.	Gas Range, -Dimension(cm)(HxWxL): 88x84x57 -80cm range -4 gas burners with piezo ignition + 1 hotplate with pilot light indicator -Gas Thermostat Oven with Gas Grill -Rotisserie -Tempered Glass Top Cover -#304 Stainless Steel Body -20 amperes -49 Liters Gas Oven -Oven Dimension (mm): 320Hx420Dx370W -1500 watts -Type B -2flat + Ground Plug	2	unit		
46	Induction Stove, -Dimension: 67.4 x 43.4 x 9.7 Centimeters -Included Components: 1 double induction cooktop -Easy to clean -Dual Heat sensor -With one year warranty -Total Watts-3200 W (Left Cook Station-2000W+Right Cook Station-1200W)	5	unit		
47.	Utility Cart, Product Dimensions 18.11"D x 30.71"W x 36.23"H Material Stainless Steel Color Stainless Steel Special Feature Stain Resistant Heavy-Duty Sturdy Stainless Steel - Crafted with precision from high-quality stainless steel, this heavy-duty utility cart is the epitome of strength, durability, and functionality. (Note: the handle is made of aluminum.) Impressive Capacity - With a remarkable weight capacity of up to 1100 pounds, our	2	unit		

	<p>heavy duty stainless steel cart can effortlessly transport heavy items, providing you with reliability.</p> <p>Strengthened Wheel - Equipped with reinforced wheels, this rolling service cart ensures smooth maneuverability even under heavy loads, making it an ideal choice for warehouses, workshops, and more.</p> <p>Convenient Handle - Designed for ease of use, the built-in handle allows for effortless steering and control, reducing strain on your workforce during transport.</p> <p>Safety Fence - A safety fence surrounds the tray, preventing items from accidentally falling off while in transit. This feature enhances workplace safety and protects your items.</p> <p>3-Tier Capacity - With 3 spacious tiers, this service cart offers ample storage space for your tools, equipment, or materials, helping you stay organized and efficient.</p> <p>Easy Installation - Assembly is a breeze, thanks to the stainless steel tool cart's straightforward installation process. Spend less time setting up and more time putting it to work.</p> <p>Best Service - We are responsible for the quality of this rolling stainless steel utility cart, please feel free to contact us if there is any quality problem, we will reply within 24 hours.</p>				
48.	<p>ATP Luminometer,</p> <ul style="list-style-type: none"> -Detects: EXC Surface Test, ≥ 0.5 femtomole ATP. H₂O Test, ≥ 1.0 femtomole ATP. -Number of stored sample plans: 200 -Number of results stored 2000 -Display: LCD Touch Screen -Power Source: Battery Operated -Includes: Power supply, USB cord, Base, Global Power Supply Adapters -With one year warranty -With product training -With calibration certificate 	2	unit		
49.	<p>Anaerobic System,</p> <ul style="list-style-type: none"> -This anaerobic jar is specially formulated for temperature stability and durability <p>It's unbreakable, lightweight, transparent and, of course, autoclavable. Double screw clamp, coupled with the patented Quad Ring, ensures a more positive seal, superior to conventional O-rings. It also doubles as a handy carrying handle. The 3/8" thick</p>	2	unit		

	<p>anodized aluminum lid won't warp, and it's guaranteed to resist cracking or breaking for ten years. -With one year warranty</p>				
50.	<p>Cooled Incubator Technical Specifications: Performance Data Temperature Temperature range °C -10...100 Temperature variation at 37 °C [± K] 0.2 Temperature fluctuation at 37 °C [± K] 0.1 Recovery time after 30 seconds door open at 37 °C [min] 2 Electrical data Rated Voltage [V] 230 Power frequency [Hz] 50 /60 Nominal power [kW] 0.7 Unit fuse [A] 10 Phase (Nominal voltage) 1~ Interior volume [L] 115 Net weight of the unit (empty) [kg] 105 Permitted load [kg] 50 Load per rack [kg] 20 Wall clearance back [mm] 100 Wall clearance sidewise [mm] 100 Internal Dimensions Width [mm] 600 Height [mm] 480 Depth [mm] 400 Inner doors 1 Unit doors 1 Housing dimensions not including fittings and connections Width net [mm] 835 Height net [mm] 1025 Depth net [mm] 650 Environment-specific data Energy consumption at 37 °C [Wh/h] 75 Sound-pressure level [dB(A)] 49 Number of shelves (std./max.) 2/5 Features *Temperature range: -10 °C to +100 °C • APT.line preheating chamber technology • Up to 30% lower energy consumption compared to the previous model • Cooling with compressor cooling unit • Adjustable fan speed • Controller with time-segment and real-time programming • Inner door made of tempered safety glass • 2 stainless steel racks • Stackable • Class 3.1 independent temperature safety device (DIN 12880) with visual</p>	1	unit		

	<p>and acoustic alarm</p> <ul style="list-style-type: none"> • Computer interface: Ethernet -5KVA AVR -With one year warranty -With product training 				
51.	<p>Sample Homogenizer,</p> <p>Technical Specifications:</p> <p>Motor rating input 800 W</p> <p>Motor rating output 500 W</p> <p>Volume range (H₂O) 0.001 - 2 l</p> <p>Viscosity max. 5000 mPas</p> <p>Speed range 3000 - 25000 rpm</p> <p>Speed deviation 1 %</p> <p>Speed adjustment stepless</p> <p>Speed display LED</p> <p>Noise without element 75 dB(A)</p> <p>Extension arm diameter 13 mm</p> <p>Extension arm length 160 mm</p> <p>Process type batch</p> <p>Permissible ON time 100 %</p> <p>Dimensions (W x H x D) 87 x 271 x 106 mm</p> <p>Weight 2.5 kg</p> <p>Permissible ambient temperature 5 - 40 °C</p> <p>Permissible relative humidity 80% (up to 31°C), decreasing linearly to max. 50 (@40°C)</p> <p>Protection class according to DIN EN 60529 IP 20</p> <p>Voltage 220 - 240 V</p> <p>Frequency 50/60 Hz</p> <p>Power input 800 W</p> <p>T25 Digital Package contains:</p> <ul style="list-style-type: none"> 1 * Disperser 1 * Dispersing Element Ø18 mm 1 * Plate stand, H800 mm 1 * Boss head clamp, clamping range Ø6-16 mm <ul style="list-style-type: none"> -With one year warranty -With calibration certificate -With product training 	2	unit		
52.	<p>Pipettors Set with Corresponding Tips and 2 units Linear Stand</p> <p>Single Channel Mechanical Pipettor</p> <ul style="list-style-type: none"> 0.5 to 10ul – 728020 (1 unit) 10 to 100ul – 728050 (1 unit) 20 to 200ul – 728060 (1 unit) 100 to 1000ul – 728070 (1 unit) 500 to 5000ul – 728080 (1 unit) 1000 to 10,000ul – 728090 (1 unit) <p>8 channels Mechanical Pipettor</p> <ul style="list-style-type: none"> 30-300ul – 728140 (1 unit) <p>Tips:</p> <ul style="list-style-type: none"> 10 ul tips – 790010 (1 Box) 	1	set		

	<p>200 ul tips – 790200 (1 Box) 350 ul tips – 790350 (1 Box) 1000ul tips – 791000 (1 Box) 5000ul tips – LH-780304 (50 tips per rack - 10 racks) 10,000ul tips – LH-780316 (bulks in 250) Accessory: Linear Stand – 725620 (2 units) Descriptions: - Easy volume adjustment with click stop system - Large display for easy reading of volume - For both right- and left-handed users - Color coded for easy matching of fitting tips - Materials have high chemical and UV resistance to secure long life-time of the pipette - Easy cleaning only with 3 parts needed to disassemble for deep cleaning, without any tools - Safe-cone filters available for models above 10ul for extra protection when using non-filtered tips - With light tip ejector - Fully autoclavable without the need for disassembly - Superior Ergonomics - designed handle and finger hook - Good Thermal Insulation to avoid transfer of heat from hand to mechanical spring coil - Pipetting force of 15N to avoid Repetitive Strain Injury (RSI) - With click stop as volume locking - Length 239 mm - Weight of 82 grams</p>				
53.	<p>Media Bottle, Material Borosilicate Glass Bottle Type Round Color Red Capacity 500 Milliliters Special Feature Airtight Product Dimensions 1.7"W x 6.9"H Product Care Instructions Hand Wash Only Number of Items 8 Reusability Reusable Shape Round Finish Type Translucent Unit Count 8.0 Count Manufacturer Pastein Item Weight 7.09 pounds Size 500ml</p>	10	pack		

	Finish Translucent Special Features Airtight				
54.	<p>Laboratory Sampling Spoon, -Double headed design shapes/combinations to meet different needs. Convenient for transferring materials to different diameter containers, handling powders or granular materials. Resistant to deterioration from contact with boiling water, acids, bases, and most solvents, which make them ideal for use with a wide range of compounds. With these micro spatulas, it is easy to scoop small quantities from deeper bottles and jars with small openings. Lab spatulas feature long handle for taking materials out of deep bottles and cans. Square head spatula with a flat or spoon end are mainly for transferring or handling materials, while the pointed head spoon with a scoop or spoon end are convenient to mix ingredients together in deep containers. Safe, effective and convenient, these tools are used in various sectors including health and wellness, mechanical and tech servicing, beauty and skin care, processioning laboratories, taxidermy, etc. Manufactured from AISI 420 surgical grade stainless steel. Provides high degree of flexibility while conducting clinical procedures. Smooth finish for aesthetic and corrosion resistance. Rust prevention procedure. Tools are rust proof and will hold up to repeated use. Product Conforms to ISO 9001, CE-Quality Mark, ISO 13485, FDA and other Quality Standards. -Overall length: 9" -Pack of 6</p>	10	pack		
55.	<p>Babcock Fat Extraction set-up, 5 selectable modes for centrifugation (Gerber test, Röse-Gottlieb, Babcock, Solubility and Free Mode) Free Set-up (Free Mode) of - Speed/RCA** (adjustable from 600 to 1200 rpm, the corresponding RCA is shown simultaneously) **RCA = Relative Centrifugal Acceleration - Temperature (adjustable from amb.</p>	1	unit		

	<p>temp. to 68°C)</p> <ul style="list-style-type: none"> - Centrifugation time (adjustable from 1 to 99 minutes) - Centrifugation drum of stainless steel - Security lid locking device - Automatic unbalance switch off - Electrical brake - Connection: 230V/50...60 Hz/1200 VA <p>Weight (empty): 26kg</p> <ul style="list-style-type: none"> - Full height: 460 mm - Operation height: 370 mm - Speed range: 600...1200 UpM - Temperature range: Amb. temperature to 68°C <p>Includes:</p> <p>Rotor (up to 18 Babcock-bottles) Babcock-bucket – 18 pcs</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With training 				
56.	<p>Circulating Water Pump, Working Temperature Range °F -4° to 275°; Working Temperature Range °C -20° to 135°; Nominal Cooling Capacity @ +20C (W) 200 Reservoir Capacity (gallons) 1.85; Reservoir Capacity (liters) 7; Reservoir/Tank; Material Stainless Steel; Reservoir Cover Included; DuraTop Yes; LidDock Yes; Cleanable Air Filter Yes; Working Access (L x W x D) (inches) 6.18 x 5.59 x 5 in; Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm; Temperature Stability °F±0.13; Temperature Stability °C ±0.07°; Display 3.25" LCD; Display Resolution (Set) 0.1; Display Resolution (Read) 0.1; Pump Type Pressure; Pump Speed One; Process Connections 1/2" O.D.; Barbed Tubes Flammability Class (DIN 12876-1) I (NFL) Over-Temperature Protection; Failsafe Heater Control Yes; Low Liquid Level Protection Yes; Reservoir Drain Yes; Maximum Ambient; Temperature °F 95° Maximum Ambient Temperature °C 35° Overall Dimensions (L x W x H) (inches) 21.3 x 8.7 x 25.4in; Overall Dimensions (L x W x H) (cm) 54.1 x 22.1 x 64.5cm; Refrigerant R134a; Environmental Compliance RoHS, WEEE; Shipping Weight (pounds) 84.0; Shipping Weight (kilograms) 38.1; For 60 Hz Only: Maximum Pressure (psi) 2.3; Maximum Pressure (bar) 0.16 Maximum Pressure Flow Rate (gpm) 3.60 Maximum Pressure Flow Rate (l/min) 13.5 Cooling Capacity @ -20°C (W) 30</p>	1	unit		

	<p>Cooling Capacity @ 0°C (W) 120 Cooling Capacity @ +20°C (W) 200 Cooling Capacity @ +100°C (W) 200 Included Hardware Fitting Kit for External Applications Heater Wattage 1100 Electrical Requirements (VAC/Hz/Ph/A) 120/60/1/12 Regulatory Approvals ETL - With one year warranty - With calibration certificate - With training</p>				
57.	<p>Dean And Stark Distillation Apparatus, Features 1.The instrument adopts solid state voltage regulator, stepless to change temperature, easy to accommodate temperature. 2.The instrument comprises single element. 3.Voltage regulator outputs without contact, sparkle and noise and it is stable. 4.Voltmeter is used to show the voltage changed by the solid-state voltage regulator, convenient to direct-view. 5.Reasonable structure with beautiful shape and safe operation. Technical Specifications: 1.Rated voltage: AC220V±10% 50Hz 2.Heating Power:0~650W (Continuously adjustable) 3.Temperature control mode: Solid-state voltage regulator (stepless) 4.Regulator display: AC Voltage Meter 0~300V 5.Ambient requirement: Temperature: 10~40oC; Humidity≤85% - With one year warranty - With calibration certificate</p>	2	unit		
58.	<p>Hydrometers, Descriptions Available in a variety of models measuring Baume of syrups and other liquids heavier than water in various ranges from 0° to 70°, these plain form hydrometers are used in the chemistry, pharmacology, food and beverage, starch industries and more. - Lead free ballast and glass - Individually serialized - Temperature standardization: 60 °F (15 °C) - Hand inspected by our U.S. quality team Certifications: Traceable to NIST.Packaging: Packaged with a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement</p>	5	unit		

	<p>of Accuracy. Specifications: Range 0 – 70° Accuracy ±1° Length 300 mm - With one year warranty - With calibration certificate</p>				
59.	<p>Infrared Moisture Balance, Specifications: Weighing capacity: 200 g; Repeatability, average: -for initial sample weight approx. > 1 g: ± 0.2 % -for initial sample weight approx. > 5 g: ± 0.05 % Readability: 1 mg, 0.01 % Typical sample quantity: 5 – 15 g Result display: Moisture content in %M and g dry weight in %S and g ATRO in %M/S Temperature range and settings: 40°C– 160°C, stand-by temperature selectable from 40–100°C in increments of 1°C Sample heating: Infrared radiation by an AURI heater, 600 W; Heating programs: Standard drying, gentle drying Shutoff parameter Optional:– Fully automatic– Semiautomatic mg (1–50 mg 5–300 sec.)– Semiautomatic % (0.1–5.0 % 5–300 sec.)– Timer settings (02:00–99.59 min.)– Manual; Access to sample chamber: Removable hood with wide opening angle, SoftClose mechanism Operator guidance features:– Intuitive user interface, including touch screen and easy-to-understand menu guidance– Weighing-in help and target value attainment function– Curve display; Methods: 100 methods saved in non- volatile memory; Method development: Assistant software guides users to develop new methods in approx. 3 easy test cycles; Methods management: Method menu with file management option, generation of a method library, up to 100 methods; Data transfer: SD card, method import and export function; Sample forceps: Easy-to-handle sample dish Performance test: Menu function to test the device's repeatability using the ReproEasy pad Memory for data storage: Results are saved for the last 999 measurements Status light: Displays the status “analysis running/ START”, “analysis completed/ STOP” or “analysis error” Sample inspection: LED-illuminated</p>	1	unit		

	<p>sample chamber, inspection window with grid above the hood; Mini USB – Direct data transfer to Microsoft® Windows programs without any additional software– Programmable data output interval– Data transfer protocols SBI, table format, text format; Frequency: 50/60 Hz</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With product training 				
60.	<p>Laboratory Blender, Two-speed, push-button operation Base: die-cast, epoxy-coated motor housing 1-liter, stainless steel container with handle and two-piece vinyl and styrene lid 0.5 HP motor Power 230V, 50 Hz Approved CE, RoHS</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	2	unit		
61.	<p>Spectrophotometer, Wavelength Range: 190 - 1100 nm Monochromator: 4 nm Monochromator: Single beam Littrow type, grating 1200 lines/mm Wavelength Accuracy: ±0.8 nm Wavelength Repeatability: ±0.5 nm Wavelength Calibration: automatic at start Light Source: Tungsten Halogen/Deuterium Lamp Detector: Solid Silicon Photodiode Photometric Readout: 1/4 VGA 320X240 pixels backlit LCD Photometric Range: 0 - 200%T -0.3 - 3.0A 0 - 9999C Photometric Accuracy: ±0.5%T Zero Drift: < 0.002A per hour after warm-up Baseline Flatness: ±0.004A Stability: 0.002A/h at 500 nm Stray Light:< 0.15%T Scanning Speed: Hi, Med., Low. Max. 1000 nm/min Standard Sample Holder: 4-position Cell Holder Analogue/Digital Output: Digital, RS232 Serial, Centronics Parallel Dimensions: 550(L) x 420(W) x 270(H) mm Weight: 20 kg / 44 lbs Shipping Dimensions: 390(H) mm Shipping Weight: Power Requirements: 230V/50Hz, switchable</p>	1	unit		

	<p>Operating Temperature Room temperature: 22 ±2°C</p> <p>Humidity Range: less than 85%</p> <p>Includes:</p> <ul style="list-style-type: none"> - AVR 5KVA <p>WITH Laptop</p> <p>Specifications</p> <p>8-Core CPU</p> <p>8-Core GPU</p> <p>8GB Unified Memory</p> <p>256GB SSD Storage footnote ¹</p> <p>16-core Neural Engine</p> <p>13.6-inch Liquid Retina display with True Tone²</p> <p>1080p FaceTime HD camera</p> <p>MagSafe 3 charging port</p> <p>Two Thunderbolt / USB 4 ports</p> <p>Support for one external display</p> <p>Magic Keyboard with Touch ID</p> <p>Force Touch trackpad</p> <p>30W USB-C Power Adapter</p> <p>M2 brings incredible performance and capability so you can blaze through everyday activities, multitask across apps, pursue your creative passions, and play your favorite games</p> <p>Run multiple apps and edit thousands of photos or 4K video</p> <p>Up to 12x faster than fastest Intel-based MacBook Air footnote ³</p> <p>Supports one external display</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate - With personnel training 				
62.	<p>Titration Apparatus, Extremely high chemical resistance; Smooth and light to operate with soft touch operating wheels; Media recirculation system that allows unused media to be recovered from the device and returned to the bottle; 360° rotating dispensing head; Universal connector at the back of the unit for drying tubes and filters; Easy to attach aspiration tube with a secure threaded connection; User replaceable valves; Supplied with UV-protected replacement window for light sensitive media protection Long life CR2032 battery; Easy custom adjustment for various liquids; Wide range of accessories; Autoclavable liquid pathway; Wide range of adapters included to fit most common bottle sizes; Weight 844 g (20 mL); Length 260 mm (20 mL); Autoclavability Autoclavable</p>	4	unit		

	<p>liquid pathway (121 oC, 20 min, 1 bar/100 kPa); Threaded bottle fitting A45; Bottle adapters included A32, A38, S40 Battery CR2032; Limitations The accuracy and precision values are valid under the controlled conditions described in ISO 8655.; Test temperature: 15 oC to 30 oC +/- 0,5 oC Relative humidity: > 50%; Transportation conditions Temperature: 0 oC to 40 oC; Long-term storage conditions Temperature: 0 oC to 40 oC; Chemical resistance Information available on request; Materials Piston: Compound Halar (ECTFE) Cylinder: Borosilicate glass 3.3 Valve block: Halar (ECTFE); Valve mantle: Halar (ECTFE) Valve ball;; Borosilicate glass 3.3 Valve seat: Borosilicate glass 3.3; Valve spring: Hastelloy Tubes: FEP Sealing rings: PTFE; Nominal Volume(ml): 50; Readability(ml): 0.01; Test Volume(ml): 50 Systematic Error* [%]: 0.2 Systematic Error* [mL]: 0.10 Random Error* [%]: 0.1 Random Error* [mL]: 0.05</p> <p>Includes:</p> <ul style="list-style-type: none"> - 1 Liter Amber Bottle - With one year warranty - With calibration certificate - With personnel training 				
63.	<p>Vortex Mixer, Type of movement orbital Shaking stroke 4.5 mm Permissible shaking weight (incl. attachment) 0.5 kg Motor rating input 10 W Motor rating output 8 W Permissible ON time 100 % Speed min (adjustable) 200 rpm Speed range 0 - 3000 rpm Speed display scale Operating mode continuous operation Touch function yes Working with microtiter plates yes Number of microtiter plates 1 Dimensions (W x H x D) 148 x 63 x 205 mm Weight 2.9 kg Permissible ambient temperature 5 - 40 °C Permissible relative humidity 80 % Protection class according to DIN EN 60529 IP 21 Voltage 100 - 240 V Frequency 50/60 Hz Power input 20 W DC Voltage 24 V=</p>	2	unit		

	<p>Current consumption 800 mA</p> <p>Includes:</p> <p>MS 3.1 Standard attachment MS 3.3 Universal attachment MS 1.21 One-hand insert</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 				
64.	<p>Differential Scanning Calorimeter,</p> <p>Specifications:</p> <p>This product was developed to provide a general-purpose DSC with a broad temperature range (-180 – 600°C) for all common applications. Furthermore, emphasis was placed on an extremely stable baseline and high reproducibility. The design allows manual and automatic operation. The conception of the cell guarantees maximum mechanical and chemical resistance.</p> <p>Temperature range: –180°C (with appropriate cooling option) up to +600°C</p> <p>Heating and cooling rates: 0,001 up to 300°C/min</p> <p>Temperature accuracy: +/- 0.2K</p> <p>Temperature precision: +/- 0.02K</p> <p>Digital Resolution: 16.8 million points</p> <p>Resolution: 0.03 µW</p> <p>Atmospheres: inert, oxidizing (static, dynamic)</p> <p>Measuring range: +/-2,5 up to +/-250mW</p> <p>Calibration materials: included</p> <p>Calibration: recommended 6-month interval</p> <p>Temperature range: –180°C (with appropriate cooling option) up to +600°C</p> <p>Heating and cooling rates: 0,001 up to 300°C/min</p> <p>Temperature accuracy: +/- 0.2K</p> <p>Temperature precision: +/- 0.02K</p> <p>Digital Resolution: 16.8 million points</p> <p>Resolution: 0.03 µW</p> <p>Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2,5 up to +/-250mW Calibration materials: included</p> <p>Calibration: recommended 6-month interval</p> <p>Includes:</p> <ul style="list-style-type: none"> -Al Standard crucible with lid 6x1,5mm 40µl (not crimpable) - Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046 -L63/PRESSANDTOOL - Aluminum 	1	unit		

	<p>crucible (40 µl, for crimping)</p> <ul style="list-style-type: none"> - Aluminum lid for 40µl and 100µl crucibles for crucibles 30293043 and 30293045, non pierced - Pierced aluminum lid for 40µl and 100µl crucibles for crucibles 30293043 and 30293045 - L40/3051 manual gas control 1 gas - Liquid Nitrogen Quench-Cooling Option - High sensitivity ceramic sensor for chip DSC, High resolution Sensor for maximum sensitivity (up to +35%). Recommended for polymer applications (e.g. glass transition, melting point and crystallization) Compatible with all Chip-DSC systems and accessories. - State of the Art Desktop-PC incl. Windows© OS Intel Core i3-1300, 8GB, DDR4, >23,8" - Software module for temperature modulation (Cp determination) - Starter Kit - UPS 5KVA - AVR 5KVA - With one year warranty - With calibration certificate - With personnel training 				
65.	<p>Frequency Generator, Reliable and User Friendly Frequency range: 1HZ-2 kHz. Waveform: sine square and triangular. TTL output: controllable ±13 Volts when auxiliary input of 15 Volts is used, 9 volts if batteries are used. Can use an external power supply or two 9V batteries, not included. Two potentiometers for frequency and amplitude are featured on this generator along with two dials for selection of frequency and waveform. Two outputs - the alternating signal and the TTL signal are also included.</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	1	unit		
66.	<p>Gas Meter, 4 In 1 High-Quality Electrochemical Gas Sensor 1800mAh with 2 Alarm Types Toxic Level Meter Measuring gas: Carbon monoxide, hydrogen sulfide, combustible gas, oxygen; Response time: < 30s; Display error: Carbon monoxide (≤ 10% (relative error)), hydrogen sulfide (± 5ppm) combustible gas (± 5%FS), oxygen (± 3%FS) Indication mode: LCD indicates</p>	1	unit		

	<p>real-time data, LED, sound, and vibration alarm.</p> <p>Alert: Sound alarm: 85 dB/30 cm away; Visual alarm: highlight LED; Vibration alarm; LCD display: over the set limit, low battery power Applicable temperature: -10°C ~ 55°C Applicable humidity: < 90% RH no condensation Working voltage: DC 3.7V 1800 mAh lithium battery; Charging specifications: Type-C DC 5V 1A Sensor life: 2 years</p> <p>Sensor principle: Electrochemical and catalytic combustion</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 				
67.	<p>Water Activity Meter,</p> <ul style="list-style-type: none"> - Working temp. -10°C~50°C; Working humidity 0~95% RH; Display LCS Display; Measuring range temperature -10°C~50°C; Water Activity 0~1.000aw; Measurement accuracy temperature $\pm 0.5^\circ\text{C}$ water activity $\pm 0.012(@23^\circ\text{C}\pm 5^\circ\text{C})$; Measurement time 5~40min; Measurement points 1~4; Temperature coefficient $\leq 0.0005/^\circ\text{C}$; Activity Repeatability ≤ 0.008 - With one year warranty - With calibration certificate - With personnel training 	1	unit		
68.	<p>Hot Plate/Magnetic Stirrer,</p> <p>Number of stirring positions 1 Stirring quantity max. per stirring position (H₂O) [l] 10 Motor rating output [W] 1.5 Direction of rotation left Speed control scale 0 - 6 Speed range [rpm] 100 - 1500 Stirring bar length max. [mm] 80 Heat output [W] 1000 Heating temperature range [°C] 50 - 500 Heat control LED Heating rate heating plate [K/min] 5 Connection for ext. temperature sensor ETS-D5 Fixed safety circuit [°C] 550 Set-up plate material ceramic Set-up plate dimensions [mm] 180 x 180 Dimensions (W x H x D) [mm] 220 x 105 x 330 Weight [kg] 5 Permissible ambient temperature [°C] 5 - 40 Permissible relative humidity [%] 80 Protection class according to DIN EN 60529 IP 21 Voltage [V] 230 / 120 / 100 Frequency [Hz] 50/60 Power input [W] 1020</p>	2	unit		

	- With one year warranty - With calibration certificate				
69.	F1 1 kg -w/ DAKKS Certification, Specifications: F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas. Nominal value – 1 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 1000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates	2	set		
70.	E2 set of Weight 1g -200g w/ DAKKS Certification, Specifications: Class E2 Standard weights are adjustment, test, official verification and calibration weights for Class I precision scales and are used for quality assurance of scales with a number of steps < 1 000 000 according to. DIN EN ISO 9001ff etc. Nominal value – 1g to 200g Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 610 grams Consisting of 11 pcs. Weight Retention – Mahogany Box Certifications – DAKKS Certificates	2	set		
71.	F1 2 kg -w/ DAKKS Certification, Specifications: F1 weights are used for fine precision analytical and precision scales and balances with resolutions between 0.01g to 0.001g. These weights have a high degree of accuracy and are more cost effective than the E1 and E2 classes. Mainly used in laboratories, calibration houses and quality control areas. Nominal value – 2 kg Knob Weight –HF12 Stainless Steel materials highly polished Total Contains is 2000g Retention – Plastic Box with screwed top Certifications – DAKKS Certificates	2	set		
72.	Water Bath, -Working temperature range 5°C - 100°C -Temperature stability ±0.1°C	1	unit		

	<ul style="list-style-type: none"> -Temperature calibration capability 1-point -Working access (LxWxD) 24.1x43.2x15.2cm -Flammability class (DIN 12876-1) I (NFL) -Displays actual and set point temperature simultaneously -Programmable presets for frequently used temperatures -Intergrated timer -Primary and automatic safety thermostats -Also compatible with waterless bath beads -Reservoir Capacity 20 Liters -Reservoir tank material: Stainless Steel -Reservoir cover: Hinged Gable -Over temperature protection/ failsafe heater control: yes -Reservoir drain: Yes -Maximum ambient temperature 40°C -Overall Dimension (LxWxH) 38.4x57.2x38.4cm -Shipping Weight 11.3 kg - With one year warranty - With calibration certificate 				
73.	<p>Fumehood, External Size (W*D*H) 1247*800*2450mm Internal Size (W*D*H) 987*560*700mm Work Surface Height 820mm Max Opening 740mm Air Velocity 0.3~0.8m/s Noise ≤68dB Illuminating Lamp -LED lamp -30W*1 Blower -Built-in PP centrifugal blower (2 blowers for FH1800(P) only); Speed adjustable Front Window -Resistant to acid and alkali, Manual, 5mm toughened glass, height adjustable. Power Supply AC220V±10%, 50/60Hz; 110V±10%, 60Hz Consumption 360W Material: -Main Body Made of Porcelain white PP, thickness 8mm, resistant to strong acid, alkali and anti-corrosion -Work Table Chemical resistant phenolic resin Standard Accessory: -Illuminating Lamp, Water tap, Gas tap, Water Sink, Base cabinet</p>	1	unit		

	<ul style="list-style-type: none"> -Waterproof socket*2, PP centrifugal blower, pipe strap*2(4 Pcs for FH1800(P) only) -4 meters PVC duct -(2 Pcs of 4 meters PVC duct for FH1800(P) only), Diameter:250mm - PP work table, epoxy resin board or ceramic board, Active carbon filter, Optional Accessory -Outer PVC centrifugal blower (only need to select when the duct more than 4m) Gross Weight 253kg Package Size(W*D*H) -Main Body 1388*938*1612mm -Base Cabinet 1388*888*1000mm Includes: -AVR 5KVA -With one year warranty with installation 				
74.	<p>Nitrogen Distillation Apparatus, 500ML Nitrogen Kjeldahl Flask 200mm Length Graham Condenser Connecting Distillation Head Joints:24/40 The 500ml distilling apparatus is used for determining nitrogen in organic compounds. This assembly includes a Kjeldahl flask specifically developed for this process and a Graham condenser with 10mm O.D. tubulations. The connectioning distillation head is 24/40 joints.</p> <ul style="list-style-type: none"> - With one year warranty - With calibration certificate 	5	unit		
75.	<p>Dessicator,</p> <ul style="list-style-type: none"> -Borosilicate Glass Desiccator is common equipment in labs, ideal for drying, preserving, or storing moisture-sensitive substances -Include porcelain plate to separate sample and desiccant -Inner diameter: 9.4 inch; Outer diameter: 12 inch; Height: 13 inch -Borosilicate glass, heavy duty and reusable - with one year warranty 	2	unit		
Total Bid Amount for Lot No. 2					

[Signature]
 [Name of Authorized Signatory]
 [Position/Title of Authorized Signatory]