

# 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)

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 2024-042 PhilGEPS Reference No.: 11474154

July 2020 6<sup>th</sup> 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)

#### Invitation to Bid No. Goods 2024-042

1. The Tarlac State University, through Special Budget (SB) intends to apply the sum of **One Million Pesos** (**P 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).** 

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
		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)**. 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 **November 14**, **2024**, **to December 04**, **2024**, 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 ₱ **25,000.00**.

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 **November 22, 2024 (2:00 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 documents (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 **December 04, 2024** at **1:30 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 **December 04, 2024,** at **2:00 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	November 14, 2024	N/A
Pre-Bid Conference	November 22, 2024 (3:00 PM)	BAC Conference Room, 3 <sup>rd</sup> Floor, Motorpool and
Deadline of Submission of Bids	December 04, 2024 (1:30 PM)	Administration Building, Tarlac State University, Romulo Blvd., San
Opening of Bids	December 04, 2024 (2:00 PM)	Vicente, Tarlac City

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/ Mr. Joshua Jonathan S. Jacinto BAC Secretariat
Motorpool and Administration Building
Tarlac State University
Romulo Blvd., San Vicente, Tarlac City
Tel. No. (045) 606-8142 / 0998 846 0206
Email: <a href="mailto:bacsec@tsu.edu.ph">bacsec@tsu.edu.ph</a>

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)**, with identification number **Invitation to Bid No. Goods 2024-042**.
- 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 **2024** 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 total ABC**.
- 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  $\mathbf{IB}$ .

#### 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 **March 27, 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 several 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	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:  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  b. The amount of not less than five percent (5 %) of ABC if bid security is in Surety Bond.	
19.3	The ABC for the project:         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	Delivery and Documents –
	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:
	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."
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements.
	Packaging –
	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.
	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.
	The outer packaging must be clearly marked on at least four (4) sides as follows:
	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
	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.
	Transportation –
	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.

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. 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. 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. **Intellectual Property Rights –** 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.

The inspections and tests that will be conducted are: visual and sensory inspection and

4

# **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
	. 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 (Nm3/h): 78, 65 and 28
	Weight (Kg): 2561
	Size(mm): 2468*φ1358
	with 1 year warranty
2	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
٥.	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

	Bag length 80-440mm
	with 1 year warranty
	with installation
4.	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
5.	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 austomized), Filling Rump, Paristaltia Rump, May Flavy rate; 61 (min (based on water))
	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
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
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,
11.	multipurpose/3-in-1; four interchangeable stainless-steel blades for slicing: fine, coarse,
	shredding, and chopping; bowl & housing material: plastic; blade material: stainless steel;
10	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
	1
	-Required power supply 230V/60Hz
	-Cooking Modes: Inverter Defrost; Melt; Proof; Soften; Warm
1.5	-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
1	TODOLING ANTODORUMINOS SUOTESTINAS
	· ·
17	-With one year warranty
17.	-With one year warranty Rotary Oven,
17.	-With one year warranty  Rotary Oven, dimensions: (H*W*D) 2300x1800x1900 mm; weighing 1300 kg; Voltage: 400 Volt;
17.	-With one year warranty  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;
17.	-With one year warranty  Rotary Oven, dimensions: (H*W*D) 2300x1800x1900 mm; weighing 1300 kg; Voltage: 400 Volt;

with installation

#### Lot No. 2 – Laboratory Tools and Equipment

18. Vacuum Oven,

Performance Data Temperature Heating-up time to 100 °C [min] 80 Temperature

fluctuation [ $\pm\,K]$  0.1 Temperature range +10  $^{\circ}C$  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 1/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

#### 19. 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

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:

- 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. 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
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,
22.	
	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,
25.	-Material: Stainless Steel
	-Dimension: 8.73"Lx3.62"W
	-Blade Length: 3.82 inches
26	-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,
20.	-Material: Stainless Steel
	-Dimension: 6" Height, 14" Diameter
	-Dimension, o Tiergin, 14 Diameter

29.	Chopping Board,
29.	-Material: Polypropylene Plastic
	-Product Dimension: 14"Lx11"Wx0.5Th
	-Product Dimension: 14 Ex11 wx0.5111 -Color: White
20	-Easy to clean
30.	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
21	-With one year warranty
31.	Stainless Table,
	-Material: Stainless steel 304
	-Fabricated
	-Dimension: 60"Wx36"D
	-With under shelf
22	-With one year warranty
32.	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.	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.	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
2.5	-Food grade silicone, odorless
35.	Dinner Plate,
	-Material: Ceramic
	-Color: White
	-Microwave, Oven and dishwasher safe
	-Shape: Round
	-Dimension: 10.5"Lx10.5"Wx1"H
	-Easy to clean
2 -	-Includes 12 pieces per pack
36.	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
	-With one year warranty -Dimension: 30"H; 48"W
27	-Capacity: 25kg
37.	Central Laboratory Table,
	-Dimension (mm): 1200x3600x800
	-Material: Top board/Cellon (Phenolic resin composit), Edge/PP (Polypropylene) 45mm
	Finish
	-Frame: Two-sided melamine decoratice particle board, Frame/ Steel square
	pipe(melamine baking coating) with legs/ level adjuster
20	with installation
38.	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
39.	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
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
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
42.	Freezer,
	43 cu. Ft. upright freezer; 8 adustable 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.
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 -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 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 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) 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 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 from accidentally falling off while in transit. This feature enhances workplace safety and protects your

items.

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.

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.

Best Service - We are responsible for the quality of this rolling stainlee steel utility cart, please feel free to contact us if there is any quality problem, we will reply within 24 hours.

#### 48. ATP Luminometer.

- -Detects: EXC Surface Test, >=0.5 femtomole ATP. H20 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. Anaerobic System,

-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.

-With one year warranty

#### 50. Cooled Incubator

**Technical Specifications:** 

Performance Data Temperature

Temperature range °C -10...100

Temperature variation at 37 °C [ $\pm$  K] 0.2

Temperature fluctuation at 37 °C [ $\pm$  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 Sound-pressure level [dB(A)] 49

Energy consumption at 37 °C [Wh/h] 75

Number of shelves (std./max.) 2/5

- \*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
- 51. Sample Homogenizer,

**Technical Specifications:** 

Motor rating input 800 W

Motor rating output 500 W

Volume range (H2O) 0.001 - 21

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
- -With calibration certificate
- -With product training
- 52. 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)

20 to 200ul - 728060 (1 unit)

100 to1000ul - 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

#### 53. 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

#### 54. 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

#### 55. 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

#### 56. 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

#### 57. 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

#### 58. Hydrometers,

Descriptions

Available in a variety of models measuring Baume of syrups and other liquids heavier than water in various ranges from  $0^{\circ}$  to  $70^{\circ}$ , 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 of Accuracy.

Specifications:

Range  $0-70^{\circ}$ 

Accuracy ±1°

Length 300 mm

- With one year warranty
- With calibration certificate
- 59. Infrared Moisture Balance,

Specifications:

Weighing capacity: 200 g; Repeatability, average:

- -for initial sample weight approx.  $> 1 \text{ g: } \pm 0.2 \text{ }\%$
- -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:  $40^{\circ}\text{C}-160^{\circ}\text{C}$ , stand-by temperature selectable from  $40\text{--}100^{\circ}\text{C}$  in increments of  $1^{\circ}\text{C}$  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

- With one year warranty
- With calibration certificate
- With product training
- 60. 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

- 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: < 0.002A 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 <sup>1</sup>

16-core Neural Engine

13.6-inch Liquid Retina display with True Tone<sup>2</sup>

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 <sup>3</sup>

Supports one external display

- With one year warranty
- With calibration certificate
- With personnel training

#### 62. 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-

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

Includes:

- 1 Liter Amber Bottle
- With one year warranty
- With calibration certificate
- With personnel training

#### 63. 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=

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

#### 64. Differental Scanning Calorimeter,

Specifications:

This product was developed to provide a general-purpose DSC with a broad temperature range ( $-180-600^{\circ}$ 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 and 30293045, non pierced

-Pierced aluminum lid for  $40\mu l$  and  $100\mu l$ 

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. Frequency Generator,

Reliable and User Friendly Frequency range: 1HZ-2 kHz.

Waveform: sine square and triangular. TTL output: controllable  $\pm 13$  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

## 66. 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

Sensor principle: Electrochemical and catalytic combustion - With one year warranty - With calibration certificate 67. Water Activity Meter, -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 ±0.5°C water activity ±0.012(@23°C±5°C); Measurement time 5~40min; Measurement points 1~4; Temperature coefficient ≤0.0005/°C; Activity Repeatability ≤0.008 - With one year warranty - With calibration certificate - With personnel training 68. Hot Plate/Magnetic Stirrer, Number of stirring positions 1 Stirring quantity max. per stirring position (H2O) [1] 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 - 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 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  $\leq 1~000~000$  according to. DIN EN ISO 9001ff etc. Nominal value -1gto 200g Knob Weight -HF12 Stainless Steel materials highly polished Total Contains is 610 grams Consisting of 11 pcs. Weight Retention – Mahogony Box Certifications – DAKKS Certificates

#### 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

#### 72. 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

#### 73. 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  $\pm 10\%$ , 50/60Hz;  $110V \pm 10\%$ , 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)

-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

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.

# 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 Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages) in accordance with Section 8.5.2 of the IRR; Technical Documents 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 Original copy of Bid Security. If in the form of a Surety Bond, submit also a (d) certification issued by the Insurance Commission or Original copy of Notarized Bid Securing Declaration; and Conformity with the Technical Specifications, which may include (e) production/delivery schedule, manpower requirements, and/or aftersales/parts, if applicable; and Original duly signed Omnibus Sworn Statement (OSS) and if applicable, (f) 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 The prospective bidder's computation of Net Financial Contracting Capacity (g)(NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation. Class "B" Documents If applicable, a duly signed joint venture agreement (JVA) in case the joint (h) 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 Original of duly signed and accomplished Financial Bid Form; and (i) Original of duly signed and accomplished Price Schedule(s). (j)

# **Section IX. Bidding Forms**

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# [Bidder's Letterhead]

[Date]	

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

#### List of All Ongoing Government and Private Contracts, Including Contracts Awarded But Not Yet Started

Row 1: Name of Contract Row 2: Location of Project Row 3: Contract Price	Row 1: Procuring Entity Row 2: Contact Person/Address Row 3: Telephone No.	Description of Goods	Row 1: Date of Award Row 2: Date Started Row 3: Contract Duration	Value of Outstanding Goods

Attached herewith are the following documents: Notice of Award, Notice to Proceed, and Official Receipts/Invoices, 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]

# [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

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

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	
xx	
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 may be in the form of a Bid-Securing Declaration.	supported by a Bid Security, which
2. I/We accept that: (a) I/we will be automatically disqualified from procuring entity for a period of two (2) years upon receipt of you will pay the applicable fine provided under Section 6 of the Gu Declaration, within fifteen (15) days from receipt of written der commission of acts resulting to the enforcement of the bid s 23.1(b), 34.2, 40.1 and 69.1, except 69.1 (f), of the IRR of RA 9 action the government may undertake.	our Blacklisting Order; and, (b) I/we idelines on the Use of Bid Securing mand by the procuring entity for the ecuring declaration under Sections
3. I/We understand that this Bid-Securing Declaration shall ce circumstances:	ease to be valid on the following
<ul> <li>a. Upon expiration of the bid validity period, or any request;</li> </ul>	extension thereof pursuant to your
b. I am/we are declared ineligible or post-disqualified effect, and	upon receipt of your notice to such
i) I/we failed to timely file a request for reconst	ideration or
ii) I/we filed a waiver to avail of said right;	
c. I am/we are declared as the bidder with the Lowest C have furnished the performance security and signed the	<u> </u>
<b>IN WITNESS WHEREOF</b> , I/We have hereunto set my/our hand/ [place of execution].	s this day of [month] [year] at
[Signature] [Name of Bidder's Authorized Representative [Signatory's legal capacity] Affiant	

<b>SUBSCRIBED AND SWORN</b> 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]
<b>IBP No.</b> , [date issued], [place issued]
Doc. No
Page No
Book No

# [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 N	o. 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 (Nm3/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	
	Bag length 80-440mm	
	with 1 year warranty	
	with installation	
4.	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	
5.	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	
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	
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	
0.	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	
9.	Weight (KG) 600 KG, warranty 1 Year 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. 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 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 pressureencapsulation [NW] 5; Measuring access port with small flange [DN mm] 16; Universal connection for air / inert gas with flow limiter; thread (RP'') 3/8Vacuum 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 1/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

# 19. 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

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<sup>TM</sup> technology Identical test conditions throughout the chamber interior independent of sample size and quantity

Outstanding thermal insulation saves operation costs

MAIN FEATURES:

- 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. Air Oven,
  - $\bullet$  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

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	
22	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	
25.	-Set of 2-9 pcs Kitchen Scissors,	
23.	-Material: Stainless Steel	
	-Dimension: 8.73"Lx3.62"W	
	-Blade Length: 3.82 inches	
26.	-Handle Material: Stainless Steel Kitchen Knife Set,	
20.	-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 7 Santoku Knife, 1x 5 Santoku Knife, 1x 5 Othity 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	
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	-Product Dimension: 14"Lx11"Wx0.5Th	
	-Color: White	
	-Easy to clean	
30.	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.	Stainless Table,	
	-Material: Stainless steel 304	
	-Fabricated	
	-Dimension: 60"Wx36"D	
	-With under shelf	
	-With one year warranty	
32.	Stainless Table with Sink,	
32.	-Material: Stainless Steel 304	
	-Sink Dimension: 12in depth; 16in Length; 20in width	
	-Table Dimension HxLxW: 40.5"x60in"x30"	
	-Table Dimension HxLx w: 40.5 xooin x30 -Includes Faucet	
	-Includes Drainboard	
	-Includes Back Splash	
	-Back Splash Height: 5"	
	-With under shelf	
33.	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.	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.	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.	Anti Vibration Tables,	
50.	-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.	Central Laboratory Table, -Dimension (mm): 1200x3600x800	
	-Material: Top board/Cellon (Phenolic resin composit), Edge/PP	
	(Polypropylene) 45mm Finish -Frame: Two-sided melamine decoratice particle board, Frame/	
	Steel square pipe(melamine baking coating) with legs/ level	
	adjuster	
	with installation	
38.	Laboratory Table (Side),	
	-Dimension (mm): 750x3600x800  Material: Ten Board: Callon (Phonelia Bosin Composit):	
	-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	
20	with installation	
39.	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	
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	
41.	Chest Freezer,	
71.	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	
42.	Freezer,	
	43 cu. Ft. upright freezer; 8 adustable 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	
43.	calibration certificate.  Refrigerator,	
43.	-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	
	-1 Year Warranty on Parts & Service	
	-10 Years Warranty on Compressor	
44.	Induction Cookware Set,	
44.	-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.	Gas Range,	
75.	-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	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.	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	

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	from accidentally falling off while in transit. This feature	
	enhances workplace safety and protects your items.  3. Tier Conseity. With 3 angligus tiers this service cert offers	
	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.	
	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.	
	Best Service - We are responsible for the quality of this rolling	
	stainlee steel utility cart, please feel free to contact us if there is	
	any quality problem, we will reply within 24 hours.	
48.	ATP Luminometer,	
	-Detects: EXC Surface Test, >=0.5 femtomole ATP. H20 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.	Anaerobic System,	
	-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.	
50.	-With one year warranty Cooled Incubator	
50.	Technical Specifications:	
	Performance Data Temperature	
	_	
	Temperature range °C -10100	
	Temperature variation at 37 °C [ $\pm$ 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	
	Deptn [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 \*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 51. Sample Homogenizer, **Technical Specifications:** Motor rating input 800 W Motor rating output 500 W Volume range (H2O) 0.001 - 21 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

	With calibration contificate	
	-With calibration certificate	
52.	-With product training  Directors Set with Corresponding Tips and 2 units Linear Stand	
32.	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)	
	20 to 200ul – 728060 (1 unit)	
	100 to1000ul – 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 – 790300 (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	
53.	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	
54.	Laboratory Sampling Spoon,	
<i>5</i>	-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	
55.	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  Tamparatura (a divistable from each town to 689C)	
	- Temperature (adjustable from amb. temp. to 68°C)	
	<ul><li>Centrifugation time (adjustable from 1 to 99 minutes)</li><li>Centrifugation drum of stainless steel</li></ul>	
	- Security lid locking device	
	- Automatic unbalance switch off	
	- Electrical brake	
	- Connection: 230V/5060 Hz/1200 VA Weight (empty): 26kg	
	- Full height: 460 mm	
	- Operation height: 370 mm	
	- Speed range: 6001200 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	

## Circulating Water Pump, 56. 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 57. 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 solidstate 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 \le 85\% - With one year warranty - With calibration certificate 58. Hydrometers, **Descriptions** Available in a variety of models measuring Baume of syrups and other liquids heavier than water in various ranges from $0^{\circ}$ to $70^{\circ}$ ,

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 of Accuracy.

Specifications:

Range  $0 - 70^{\circ}$ 

Accuracy ±1°

Length 300 mm

- With one year warranty
- With calibration certificate
- 59. Infrared Moisture Balance,

#### . Initiated Worstund

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 nonvolatile 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

- With one year warranty
- With calibration certificate
- With product training

### 60. 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 - 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: ±0.5%T Zero Drift: < 0.002A per hour after warm-up Baseline Flatness:  $\pm 0.004A$ 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 <sup>1</sup> 16-core Neural Engine 13.6-inch Liquid Retina display with True Tone<sup>2</sup> 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

Supports one external display - With one year warranty - With calibration certificate - With personnel training 62. 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-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 Includes: - 1 Liter Amber Bottle - With one year warranty - With calibration certificate - With personnel training 63. 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 %

Up to 12x faster than fastest Intel-based MacBook Air footnote <sup>3</sup>

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
- 64. Differental Scanning Calorimeter,

### Specifications:

to +600°C

This product was developed to provide a general-purpose DSC with a broad temperature range ( $-180-600^{\circ}$ 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:  $-180^{\circ}$ C (with appropriate cooling option) up

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  $\mu W$  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  $40\mu l$  (not crimpable)
- Sample press for crimping crucibles Incl. tool for 30293043, 30293044, 30293045 and 30293046
- -L63/PRESSANDTOOL Aluminum crucible (40  $\mu$ l, for crimping)
- Aluminum lid for  $40\mu l$  and  $100\mu l$

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 Desister DC incl. Windows @ OC Intel Com. i2	
	- State of the Art Desktop-PC incl. Windows© OS Intel Core i3-	
	1300, 8GB, DDR4, >23,8"  Software module for temperature modulation (Cr	
	- Software module for temperature modulation (Cp determination)	
	-Starter Kit	
	- UPS 5KVA	
	- AVR 5KVA	
	- With one year warranty	
	- With one year warranty - With calibration certificate	
	- With personnel training	
65.	Frequency Generator,	
05.	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	
66.	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	
	Sensor principle: Electrochemical and catalytic combustion	
	<ul><li>With one year warranty</li><li>With calibration certificate</li></ul>	
67.		
07.	Water Activity Meter, -Working temp10°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	
	$\pm 0.5$ °C water activity $\pm 0.012$ (@23°C $\pm 5$ °C); Measurement time	
	5~40min; Measurement points 1~4; Temperature coefficient	
	≤0.0005/°C; Activity Repeatability ≤0.008	
	- With one year warranty	
	- With calibration certificate	
	- With personnel training	
68.	Hot Plate/Magnetic Stirrer,	
	Number of stirring positions 1	
	Stirring quantity max. per stirring position (H2O) [1] 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	
		——————————————————————————————————————

	II 4 4 FW/I 1000	
	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	
60	- With calibration certificate	
69.	F1 1 kg -w/ DAKKS Certification, Specifications:	
	1 -	
	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	
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	
7.1	Retention – Mahogony Box Certifications – DAKKS Certificates	
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	
72.	Water Bath,	
	-Working temperature range 5°C - 100°C	
	-Temperature stability ±0.1°C	
		i

- -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. 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)
- -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	
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	

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.

amended, or the Revised Penal Co	de.
IN WITNESS WHEREOF, I have here Philippines.	eunto set my hand this day of, 20 at
	Bidder's Representative/Authorized Signatory
execution], Philippines. Affiant/s is/are pe competent evidence of identity as defined SC). Affiant/s exhibited to me his/her [ins	to before me this day of [month] [year] at [place of resonally known to me and was/were identified by me through a in the 2004 Rules on Notarial Practice (A.M. No. 02-8-13-8 ert type of government identification card used], with his/her on, with no and his/her Community Tax Certificate day of [month] [year].
Doc. No	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]
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
[signatur	e]	[in the capacity of]
Duly authorized to sig	gn 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
	o. 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 (Nm3/h): 78, 65 and 28	1	unit		
	Weight (Kg): 2561 Size(mm): 2468*\phi1358 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	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		

	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			
4.	Automatic Liquid Packaging Machine	1	unit	
	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			
5.	High Speed Automatic Bottle Filling	1	unit	
	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)			

	A1		l	1	
	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	1	unit		
	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				
7.	Noodle Maker,	2	lot		
/.	·	2	101		
	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	2	unit		
	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				
0		2	104		
9.	Table-top Pulverizer,	2	lot		
	stainless steel; capacity: 5-8kgs/hr; high				
	speed grinding; full copper motor; different				
	size grinding; incl. factory calibration				
	certificate				ļ
10.	Fruit and Vegetable Juice Extractor	2	lot		
	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				
L	1		<u> </u>	I	L

11.	Food Processor,	3	lot	
11.	multipurpose/3-in-1; four interchangeable	J	100	
	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,	1	unit	
	Interchangeable Plates; Material: Stainless			
	Steel 304; Voltage: 220V; Dimension:			
	70x47x90cm; Weight 120kg; Power			
	3000W; With one year warranty; With			
	product training			
13.	Can Seamer,	1	unit	
	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,	2	unit	
17.	-25L capacity	2	unit	
	-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			
1.5	-With one year warranty			
15.	Electric Kettle,	5	unit	
	-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,	2	unit	
	-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; Extrathick health insulation material; incl. calibration certificate; with one year warranty with installation	2	unit	
	Total Bid Amou	nt for Lo	t 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 N	o. 2 – Laboratory Tools and Equipment		1	<u> </u>	
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] 200230 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		

	24 (1: :1 1: 7 40	1	1	1	
	Max. temperature of liquid media: $5-40$				
	°C				
	Flow Rate 22 L/min				
	Maximum Viscosity < 150 cSt				
	Pump Flow 22 1/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				
19.	Drying Oven Convection,	1	unit		
	Specifications:	_	07110		
	Temperature range [°C] 60230				
	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				
	Interior height [in] 11.03				
	Interior depth [in] 9.85				
	Doors Unit doors 1				
	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:				

	1		ı	T	
	Uniform drying conditions thanks to				
	APT.line <sup>TM</sup> technology				
	Identical test conditions throughout the				
	chamber interior independent of sample				
	size and quantity				
	Outstanding thermal insulation saves				
	operation costs				
	MAIN FEATURES:				
	• 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.	Air Oven,	2	unit		
	• 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 [ $\pm$ 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 alagrange sidervise [mm] 100				
	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				
21.	Laboratory Metal Trays,	10	piece		
	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,	1	unit		
	portable cordless; air compressor kit; 2.5		0.222		
	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;				
22	With one year warranty	1.5			
23.	Metal Tray,	15	piece		
	- Material: Stainless Steel 304				
	- Dimension (LxWxH): 12"x6"x1"				
	- Bottom Inside Length: 11"				
	- Bottom Inside Width: 6"				
	- Seamless				
24.	Rubber Tongs,	5	set		
	-Material: Silicone				
	-Style: non stick				
	-Dimensions: 13.78x1.77x1.69 inches				
	-Heat resistant				
	-Easy to lock				
	-Set of 2-9 pcs				
25.	Kitchen Scissors,	5	piece		
=5.	-Material: Stainless Steel	·	r		
	-Dimension: 8.73"Lx3.62"W				
	-Blade Length: 3.82 inches				
	-Handle Material: Stainless Steel				
26.	Kitchen Knife Set,	5	set		
۷۵.	*	3	SEL		
	-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				
1	, , ,			1	1

	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,	10	set	
	-Material: 18/10 Stainless			
	-8" Dinner Fork x 8			
	-6.5" Teaspoon x 8			
28.	Stainless Bowl,	10	piece	
	-Material: Stainless Steel			
	-Dimension: 6" Height, 14" Diameter			
29.	Chopping Board,	10	piece	
	-Material: Polypropylene Plastic			
	-Product Dimension: 14"Lx11"Wx0.5Th			
	-Color: White			
	-Easy to clean			
30.	Kitchen Hood,	3	unit	
	-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.	Stainless Table,	1	unit	
	-Material: Stainless steel 304			
	-Fabricated			
	-Dimension: 60"Wx36"D			
	-With under shelf			
22	-With one year warranty	1	_ •,	
32.	Stainless Table with Sink,	1	unit	
	-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"			
22	-With under shelf		1	
33.	Reusable Ice Packs,	5	packs	
	-Sturdy			
	-Capacity: 200ml			
	-Re freezable			

	Chartais refrigerent made and non-toxic			
	-Sheets is refrigerant made and non toxic			
	materials			
	-Heavy duty washable plastic material			
2.4	-20 pieces per pack	4	1	
34.	Cooking Kitchen Utensil Set,	4	pack	
	-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.	Dinner Plate,	5	pack	
	-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.	Anti Vibration Tables,	4	piece	
	-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.	Central Laboratory Table,	1	unit	
	-Dimension (mm): 1200x3600x800			
	-Material: Top board/Cellon (Phenolic			
	resin composit), Edge/PP (Polypropylene)			
	45mm Finish			
	-Frame: Two-sided melamine decoratice			
	particle board, Frame/ Steel square			
	pipe(melamine baking coating) with legs/			
	level adjuster			
	with installation			
38.	Laboratory Table (Side),	2	unit	
50.	-Dimension (mm): 750x3600x800		GIII	
	-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			
20		10	nioco	
39.	Jar Lifter, -Measures: 8.75" x 3" x 1.5" / 22cm x	10	piece	
	-ivicasures. o. / 3 X 3 X 1.3 / 22CIII X			

	7.5cm x 4cm			
	-Vinyl coated grip clamps securely on jar			
	tops			
4.0	-Material: Stainless	1.7		
40.	Sensory Booths with sink (Modular),	17	set	
	-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.	Chest Freezer,	1	unit	
<del>-</del> 1.	HD Inverter Chest Freezer	1	unit	
	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			
42.	Freezer,	1	unit	
	43 cu. Ft. upright freezer; 8 adustable			
	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.			
43.	Refrigerator,	2	unit	
	-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			
	-DOUGHZING PHICE			

	-1 Year Warranty on Parts & Service				
	-10 Years Warranty on Compressor				
44.	Induction Cookware Set,	5	set		
' ' '	-Material: Aluminum		500		
	-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				
4.5	frying pan with lid	2	_ •.		
45.	Gas Range,	2	unit		
	-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	Induction Stove,	5	unit		
	-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.	Utility Cart,	2	unit		
	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				
		<u> </u>	1	<u> </u>	<u>I</u>

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	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 from				
	accidentally falling off while in transit.				
	This feature enhances workplace safety				
	and protects your items.				
	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.				
	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.				
	Best Service - We are responsible for the				
	quality of this rolling stainlee steel utility				
	cart, please feel free to contact us if there is				
	any quality problem, we will reply within				
	24 hours.				
48.	ATP Luminometer,	2	unit		
	-Detects: EXC Surface Test, >=0.5				
	femtomole ATP. H20 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.	Anaerobic System,	2	unit		
	-This anaerobic jar is specially formulated	_	31111		
	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				
i	a handy carrying handle. The 3/8" thick			1	

	anodized aluminum lid won't warp, and			
	it's guaranteed to resist cracking or			
	breaking for ten yearsWith one year warranty			
50.	Cooled Incubator	1	unit	
30.		1	uiiit	
	Technical Specifications:			
	Performance Data Temperature			
	Temperature range °C -10100			
	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			

	and acoustic alarm			
	• Computer interface: Ethernet			
	-5KVA AVR			
	-With one year warranty			
	-With product training	-		
51.	Sample Homogenizer,	2	unit	
	Technical Specifications:			
	Motor rating input 800 W			
	Motor rating output 500 W			
	Volume range (H2O) 0.001 - 21			
	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			
	-With calibration certificate			
	-With product training			
52.	Pipettors Set with Corresponding Tips and	1	set	
32.	2 units Linear Stand	1	301	
	Single Channel Mechanical Pipettor			
	0.5 to 10ul – 728020 (1 unit)			
	10 to 100ul – 728050 (1 unit)			
	20 to 200ul – 728050 (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)			

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	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				
53.	Media Bottle,	10	pack		
	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  54. Laboratory Sampling Spoon, 10 pack	
T 14 T ADDIVIDED NATIONAL NOOTE TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO	
-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"	
-Overall length. 9 -Pack of 6	
55. Babcock Fat Extraction set-up, 1 unit	
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.	

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	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/5060 Hz/1200 VA			
	Weight (empty): 26kg			
	- Full height: 460 mm			
	- Operation height: 370 mm			
	- Speed range: 6001200 UpM			
	- Temperature range: Amb. temperature to			
	68°C			
	Includes:			
	Rotor (up to 18 Babcock-bottles) Babcock-			
	bucket – 18 pcs			
	- With one year warranty			
	- With one year warranty - With calibration certificate			
	- With training			
56.		1	ı, mit	
50.	Circulating Water Pump,	1	unit	
	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 (I/min) 13.5			
	Cooling Capacity @ -20°C (W) 30			
	Cooming Capacity & -20 C (W) 30		i l	

	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				
57.	Dean And Stark Distillation Apparatus,	2	unit		
	Features	_	07110		
	1.The instrument adopts solid state voltage				
	regulator, stepless to change temperature,				
	easy to accommodate temperature.				
	<u> </u>				
	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				
58.	Hydrometers,	5	unit		
] 30.	Descriptions	,	uiiit		
	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				
L	, , , , ,	1	1	1	

	of Accuracy.				
	Specifications:				
	Range 0 – 70°				
	Accuracy ±1°				
	Length 300 mm				
	- With one year warranty				
	- With calibration certificate				
59.	Infrared Moisture Balance,	1	unit		
	Specifications:				
	Weighing capacity: 200 g; Repeatability,				
	average:				
	-for initial sample weight approx. $> 1$ g: $\pm$				
	0.2 %				
	-for initial sample weight approx. $> 5 \text{ g: } \pm$				
	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 inspection, LED-munifiated			<u> </u>	

	T	ı	1		1
	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				
	- With one year warranty				
	- With calibration certificate				
	- With product training				
60.	Laboratory Blender,	2	unit		
	Two-speed, push-button operation	_	0.222		
	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				
	- With one year warranty				
<u></u>	- With calibration certificate	1			
61.	Spectrophotometer,	1	unit		
	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				
	250 1/50112, 5 intellicolo	<u> </u>	<u> </u>	1	

	0		I	1	٦
	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 <sup>1</sup>				
	16-core Neural Engine				
	13.6-inch Liquid Retina display with True				
	Tone <sup>2</sup>				
	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 <sup>3</sup>				
	Supports one external display				
	- With one year warranty				
	- With calibration certificate				
	- With personnel training				
(2)	1	4	:4		_
62.	Titration Apparatus,	4	unit		
	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				
1	(20 mL); Autoclavability Autoclavable				

I Hand nothway (171 of 171 min   bar/110	
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	
Includes:	
- 1 Liter Amber Bottle	
- With one year warranty	
- With calibration certificate	
- With personnel training	
63. Vortex Mixer, 2 unit	
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=	<u> </u>

Includes:  MS 3.1 Standard attachment MS 1.21 One-hand insert  - With one year warranty - With one year warranty - With one year warranty - With calibration certificate  64. Differental 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 potion) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature accuracy: +/- 0.2K Temperature recision: +/- 0.02K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature range: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature renge: -180°C (with appropriate cooling option) up to +600°C Heating and cooling rates: 0,001 up to 300°C/min Temperature raccuracy: +/- 0.2K Digital Resolution: 16.8 million points Resolution: 0.03 µW Atmospheres: inert, oxidizing (static, dynamic) Measuring range: +/-2.5 up to +/- 2.50mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not		C			
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250mW Calibration materials: included Calibration: recommended 6-month interval Includes: -Al Standard crucible with lid 6x1,5mm 40µl (not					
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-Al Standard crucible with lid 6x1,5mm 40μl (not					
40µl (not					
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		• `			
crimpable)		_ · · · ·			
- Sample press for crimping crucibles Incl.					
tool for 30293043, 30293044, 30293045		·			
and 30293046					
-L63/PRESSANDTOOL - Aluminum		-L63/PRESSANDTOOL - Aluminum			

	in			
	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.			
	- 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.	Frequency Generator,	1	unit	
05.	Reliable and User Friendly Frequency	1	unit	
	Lrange, LH7-7 KH2			
	range: 1HZ-2 kHz.			
	Waveform: sine square and triangular. TTL			
	Waveform: sine square and triangular. TTL output: controllable ±13 Volts when			
	Waveform: sine square and triangular. TTL output: controllable ±13 Volts when auxiliary input of 15 Volts is used, 9 volts			
	Waveform: sine square and triangular. TTL output: controllable ±13 Volts when auxiliary input of 15 Volts is used, 9 volts if batteries are used.			
	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			
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	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			
	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			
	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			
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	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			
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	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			
	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	4		
66.	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  Gas Meter,	1	unit	
66.	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  Gas Meter, 4 In 1 High-Quality Electrochemical Gas	1	unit	
66.	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  Gas Meter, 4 In 1 High-Quality Electrochemical Gas Sensor 1800mAh with 2 Alarm Types	1	unit	
66.	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  Gas Meter, 4 In 1 High-Quality Electrochemical Gas Sensor 1800mAh with 2 Alarm Types Toxic Level Meter Measuring gas: Carbon	1	unit	
66.	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  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	1	unit	
66.	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  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;	1	unit	
66.	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 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%	1	unit	
66.	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  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)	1	unit	
66.	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 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%	1	unit	

	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			
	Sensor principle: Electrochemical and			
	catalytic combustion			
	- With one year warranty			
	- With calibration certificate			
67.	Water Activity Meter,	1	unit	
	-Working temp10°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 ±0.5°C			
	water activity $\pm 0.012$ (@23°C $\pm$ 5°C);			
	Measurement time 5~40min; Measurement			
	points 1~4; Temperature coefficient			
	≤0.0005/°C; Activity Repeatability ≤0.008			
	- With one year warranty - With calibration certificate			
	- With personnel training			
68.	Hot Plate/Magnetic Stirrer,	2	unit	
00.	Number of stirring positions 1	_	ann	
	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 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			
	X/-14 [X/] 220 / 120 / 100			
	Voltage [V] 230 / 120 / 100			
	Frequency [Hz] 50/60			

	- With one year warranty				
	- With calibration certificate				
69.	F1 1 kg -w/ DAKKS Certification,	2	set		
05.	Specifications:	_	500		
	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				
70.	E2 set of Weight 1g -200g w/ DAKKS	2	set		
	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 – Mahogony Box Certifications				
	– DAKKS Certificates				
71.	F1 2 kg -w/ DAKKS Certification,	2	set		
	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				
72.	Water Bath,	1	unit		
	-Working temperature range 5°C - 100°C				
	-Temperature stability ±0.1°C				
	, <u>*</u>		1	l	1

		T	ı	1	T	_
	-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					
7.0	- With calibration certificate	1	•,			
73.	Fumehood,	1	unit			
	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					
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	-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), 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.	Nitrogen Distillation Apparatus,	5	unit		
	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,	2	unit		
, 5.	-Borosilicate Glass Desiccator is common	_	GIII		
	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				
	Total Bid Amo	unt for T	ot No. 2		
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[Signature]
[Name of Authorized Signatory]
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