



**TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY (TESDA)**

# **BID DOCUMENTS**

## **Procurement of Learning Equipment and Systems for the 2021 Regional TVET Innovation Centers (RTICs)**

**TESDA-CO-2023-04**

**Sixth Edition  
July 2020**

# Preface

These Philippine Bidding Documents (PBDs) for the procurement of Goods through Competitive Bidding have been prepared by the Government of the Philippines for use by any branch, constitutional commission or office, agency, department, bureau, office, or instrumentality of the Government of the Philippines, National Government Agencies, including Government-Owned and/or Controlled Corporations, Government Financing Institutions, State Universities and Colleges, and Local Government Unit. The procedures and practices presented in this document have been developed through broad experience, and are for mandatory use in projects that are financed in whole or in part by the Government of the Philippines or any foreign government/foreign or international financing institution in accordance with the provisions of the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184.

The Bidding Documents shall clearly and adequately define, among others: (i) the objectives, scope, and expected outputs and/or results of the proposed contract or Framework Agreement, as the case may be; (ii) the eligibility requirements of Bidders; (iii) the expected contract or Framework Agreement duration, the estimated quantity in the case of procurement of goods, delivery schedule and/or time frame; and (iv) the obligations, duties, and/or functions of the winning bidder.

Care should be taken to check the relevance of the provisions of the PBDs against the requirements of the specific Goods to be procured. If duplication of a subject is inevitable in other sections of the document prepared by the Procuring Entity, care must be exercised to avoid contradictions between clauses dealing with the same matter.

Moreover, each section is prepared with notes intended only as information for the Procuring Entity or the person drafting the Bidding Documents. They shall not be included in the final documents. The following general directions should be observed when using the documents:

- a. All the documents listed in the Table of Contents are normally required for the procurement of Goods. However, they should be adapted as necessary to the circumstances of the particular Procurement Project.
- b. Specific details, such as the "*name of the Procuring Entity*" and "*address for bid submission*," should be furnished in the Instructions to Bidders, Bid Data Sheet, and Special Conditions of Contract. The final documents should contain neither blank spaces nor options.
- c. This Preface and the footnotes or notes in italics included in the Invitation to Bid, Bid Data Sheet, General Conditions of Contract, Special Conditions of Contract, Schedule of Requirements, and Specifications are not part of the text of the final document, although they contain instructions that the Procuring Entity should strictly follow.

- d. The cover should be modified as required to identify the Bidding Documents as to the Procurement Project, Project Identification Number, and Procuring Entity, in addition to the date of issue.
- e. Modifications for specific Procurement Project details should be provided in the Special Conditions of Contract as amendments to the Conditions of Contract. For easy completion, whenever reference has to be made to specific clauses in the Bid Data Sheet or Special Conditions of Contract, these terms shall be printed in bold typeface on Sections I (Instructions to Bidders) and III (General Conditions of Contract), respectively.
- f. For guidelines on the use of Bidding Forms and the procurement of Foreign-Assisted Projects, these will be covered by a separate issuance of the Government Procurement Policy Board.

# Table of Contents

Glossary of Acronyms, Terms, and Abbreviations .....	4
Section I. Invitation to Bid .....	7
Section II. Instructions to Bidders .....	8
1. Scope of Bid.....	9
2. Funding Information.....	9
3. Bidding Requirements.....	9
4. Corrupt, Fraudulent, Collusive, and Coercive Practices.....	9
5. Eligible Bidders.....	10
6. Origin of Goods.....	10
7. Subcontracts.....	10
8. Pre-Bid Conference.....	10
9. Clarification and Amendment of Bidding Documents.....	10
10. Documents comprising the Bid: Eligibility and Technical Components.....	10
11. Documents comprising the Bid: Financial Component.....	11
12. Bid Prices.....	11
13. Bid and Payment Currencies.....	12
14. Bid Security.....	12
15. Sealing and Marking of Bids.....	12
16. Deadline for Submission of Bids.....	15
17. Opening and Preliminary Examination of Bids.....	15
18. Domestic Preference.....	15
19. Detailed Evaluation and Comparison of Bids.....	15
20. Post-Qualification.....	16
21. Signing of the Contract.....	16
Section III. Bid Data Sheet.....	17
Section IV. General Conditions of Contract .....	23
1. Scope of Contract.....	24
2. Advance Payment and Terms of Payment.....	24
3. Performance Security.....	24
4. Inspection and Tests.....	24
5. Warranty.....	25
6. Liability of the Supplier.....	25
Section V. Special Conditions of Contract .....	26
Section VI. Schedule of Requirements .....	31
Section VII. Technical Specifications .....	41

# ***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***





## INVITATION TO BID FOR THE PROCUREMENT OF LEARNING EQUIPMENT AND SYSTEMS FOR THE 2021 REGIONAL TVET INNOVATION CENTERS (RTICS)

1. The Technical Education and Skills Development Authority (TESDA), through the General Appropriations Act (GAA) FY 2022 Continuing Appropriation of Capital Outlay intends to apply the sum of **One Hundred Ninety-Nine Million Nine Hundred Ninety Nine Thousand Nine Hundred Seventeen Pesos and 20/100 (P199,999,917.20)** for the Procurement of Learning Equipment and Systems for the 2021 Regional TVET Innovation Centers (RTICs) being the Approved Budget for the Contract (ABC) to payments under the contract for all items in each lot. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.

LOT NO.	LOT TITLE	ABC (IN PHILIPPINE PESO)
1	Food Processing Laboratory	79,146,840.89
2	Industrial Automation	62,130,609.66
3	Building Automation	4,355,995.68
4	Additional Devices for Industrial Automation	7,286,349.77
5	IT Equipment	22,053,414.51
6	IT Networks	1,999,704.96
7	Security Camera System	1,675,843.96
8	Office Furniture and Equipment	11,290,287.78
9	Air Conditioning System	7,647,162.87
10	Transport Refrigeration	2,413,707.12
<b>TOTAL</b>		<b>P199,999,917.20</b>

2. The TESDA now invites bids for the above Procurement Project. Delivery of the Goods is required within **sixty (60)** calendar days from receipt of the winning bidder of the Notice to Proceed. Bidders should have completed, within five (5) years from 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) No. 9184.

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 No. 5183.

4. Prospective Bidders may obtain further information from TESDA and inspect the Bidding Documents at the address given below during office hours from 8:00 a.m. to 5:00 p.m. starting 11 August 2023.
5. A complete set of Bidding Documents may be acquired by interested Bidders beginning 11 August 2023 from the given address and website(s) below and upon payment of the following applicable fees for the Bidding Documents:

<b>Lot No.</b>	<b>ABC (In Philippine Peso)</b>	<b>Cost of Bidding Documents (In Philippine Peso)</b>
1	79,146,840.89	50,000.00
2	62,130,609.66	50,000.00
3	4,355,995.68	5,000.00
4	7,286,349.77	10,000.00
5	22,053,414.51	25,000.00
6	1,999,704.96	5,000.00
7	1,675,843.96	5,000.00
8	11,290,287.78	25,000.00
9	7,647,162.87	10,000.00
10	2,413,707.12	5,000.00

The fees for the Bidding Documents shall be applied for each lot based on the above schedule of fees. However, the total amount to be paid by the prospective bidder/s should not exceed **₱50,000.00** regardless of the number of lots being bid. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person.

6. The TESDA will hold a Pre-Bid Conference on 18 August 2023 at 10:00 AM through video conferencing or webcasting via Zoom which shall be open to prospective bidders.

Prospective bidders are advised to send a request to this link ([https://docs.google.com/forms/d/e/1FAIpQLSdaFndmZHIS-Dpcw\\_RW5\\_DWLV7j04aKrls6opu\\_moQLePz6gQ/viewform](https://docs.google.com/forms/d/e/1FAIpQLSdaFndmZHIS-Dpcw_RW5_DWLV7j04aKrls6opu_moQLePz6gQ/viewform) or through <https://bit.ly/TESDABACCOZoomLinkRequestForm>) **NOT LATER THAN 17 AUGUST 2023** in order to acquire the Zoom link password.

For the Pre-Bid Conference, bidders are encouraged to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who will prepare the documents for the bidder to minimize errors in the preparation of bids. The bidders' representative shall carefully consider all the discussions during the Pre-bid Conference and be guided by them in the preparation of bids. Only the **pre-registered representative/s or personnel** shall be allowed to attend during Zoom Video Conference.

Kindly register before the abovementioned meeting time. Before the meeting, each participant (bidder's representative) must indicate his/her full name and company name (e.g. Juan Dela Cruz, ABC123 Trading) in the Zoom screen name.

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **31 August 2023 at 9:00 AM**. Online submission is not yet available. Late bids shall not be accepted.
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 **31 August 2023 at 10:00 AM** at the TESDA Development Institute (TDI) Conference Room, Gate 2, TESDA Complex, Building 2, East Service Road, South Luzon Expressway (SLEX), Fort Bonifacio, Taguig City. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

For the Opening of Bids, bidders are required to send their authorized technical representatives or personnel who are familiar with the bidding requirements and who prepared the documents for the bidder. The bidders' representative shall response to the queries during the meeting if ever there will be relative the document/s of the bidder.

10. The **TESDA** 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 No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

**Ms. ARCADIA CRESELDA P. BALINAS**  
Head, BAC Secretariat  
3<sup>rd</sup> Floor, Procurement Division  
TESDA Administration Building  
East Service Road, South Luzon Expressway (SLEX)  
Fort Bonifacio, Taguig City 1630  
Telefax: (02) 8893-8296  
E-mail: bacsecretariat@tesda.gov.ph

12. You may visit <https://www.tesda.gov.ph/About/TESDA/149> for downloading of Bidding Documents.

*Date of Issue: 11 August 2023*

  
**DDG ANICETO D. BERTIZ III**  
BAC Chairperson

## ***Section II. Instructions to Bidders***

## **1. Scope of Bid**

The Procuring Entity, **TESDA** wishes to receive Bids for the **Procurement of Learning Equipment and Systems for the 2021 Regional TVET Innovation Centers (RTICs)** with identification number **TESDA-CO-2023-04**.

The Procurement Project (referred to herein as "Project") is composed of **ten (10) lots**, the details of which are described in Section VII (Technical Specifications).

## **2. Funding Information**

2.1. The GOP through the source of funding for **Procurement of Learning Equipment and Systems for the 2021 Regional TVET Innovation Centers (RTICs)** in the amount of **One Hundred Ninety-Nine Million Nine Hundred Ninety-Nine Thousand Nine Hundred Seventeen Pesos and 20/100 (P199,999,917.20)**.

2.2. The source of funding is the FY 2022 Continuing Appropriation of Capital Outlay.

## **3. Bidding Requirements**

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.

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.

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.

*gf*

## **5. Eligible Bidders**

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership is not allowed to participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to fifty percent (50%) of the ABC of each lot. For the definition of SLCC, refer to Section III (*Bid Data Sheet*), Clause 5.3.a.
- 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 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 **18 August 2023 at 10:00 AM** through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

## **9. Clarification and Amendment of Bidding Documents**

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

## **10. Documents comprising the Bid: Eligibility and Technical Components**

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

- 10.2. The Bidder's SLCC as indicated in **ITB Clause 5.3** should have been completed within five (5) years prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

## **11. Documents comprising the Bid: Financial Component**

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the IB shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

## **12. Bid Prices**

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
  - a. For Goods offered from within the Procuring Entity's country:
    - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
    - ii. The cost of all customs duties and sales and other taxes already paid or payable;
    - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
    - iv. The price of other (incidental) services, if any, listed in e.

b. For Goods offered from abroad:

- i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
- ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

### **13. Bid and Payment Currencies**

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

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

### **14. Bid Security**

14.1. The Bidder shall submit a Bid Securing Declaration<sup>1</sup> 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 **29 December 2023**. 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**

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

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.

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

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<sup>1</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.



or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

As for the sealing and marking of the envelopes, the Bidder may use the following guides:

- Bidders shall enclose their original eligibility and technical documents described in ITB Clause 10 and 11 in one sealed envelope marked "ORIGINAL - TECHNICAL COMPONENT", and the original of their financial component in another sealed envelope marked "ORIGINAL - FINANCIAL COMPONENT", sealing them all in an outer envelope marked "ORIGINAL BID".
- Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as "COPY NO. – TECHNICAL COMPONENT" and "COPY NO. — FINANCIAL COMPONENT" and the outer envelope as "COPY NO. ", respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.
- The original and the number of copies of the Bid as indicated in the Bid Data Sheet (BDS) shall be typed or written in ink and shall be signed by the Bidder or its duly authorized representative/s.
- All envelopes shall:
  - contain the name of the contract to be bid in capital letters;
  - bear the name and address of the Bidder in capital letters;
  - be addressed to the Procuring Entity's BAC;
  - bear the specific identification of this bidding process indicated in the ITB Clause 1; and
  - bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids, in accordance with Paragraph 7 of the Invitation to Bid.
- In the final packaging of the bid, each bidder must submit one (1) copy of the first and second components of its Bid. The Procuring Entity requests two (2) additional hard copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

The duplicates - copies 1 and 2 - must include the same documents as that of the original set of documents. However, if a bidder opts to submit cash as its bid security, copies 1 and 2 need not contain photocopies of the same.

**ORIGINAL BID**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_

**COPY NO. 1**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_

**ORIGINAL - TECHNICAL COMPONENT**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_

**COPY NO. 1 - TECHNICAL COMPONENT**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_

**ORIGINAL - FINANCIAL COMPONENT**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_

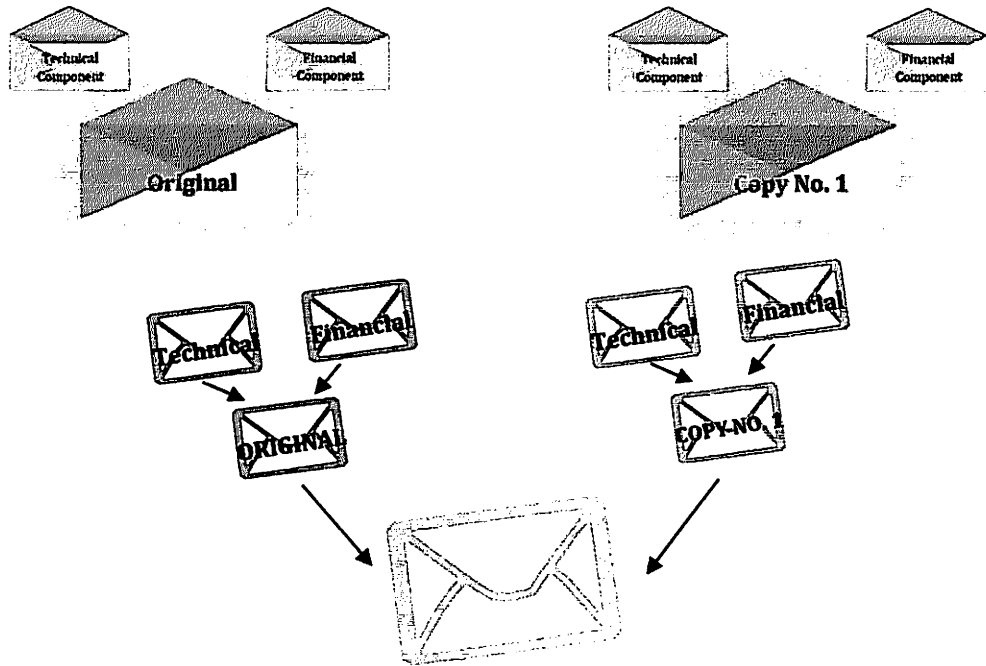
**COPY NO. 1 - FINANCIAL COMPONENT**

BIDDER:  
 BIDDER'S NAME  
 BIDDER'S ADDRESS

\_\_\_\_\_  
 PROCUREMENT PROJECT TITLE  
 BIDDING REFERENCE NUMBER

TECHNICAL EDUCATION AND SKILLS DEVELOPMENT AUTHORITY  
 East Service Road, South Luzon Expressway  
 Fort Bonifacio, Taguig City, 1630

DO NOT OPEN BEFORE: \_\_\_\_\_



## **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 shall be indicated in **Section VII (Technical Specifications)**, although 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 (1) Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.
- 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***

# Bid Data Sheet

ITB Clause																																	
<b>5.3</b>	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. any contract defined based on the nature of the following lots:</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr> <th style="width: 10%; text-align: center;">Lot No.</th> <th style="width: 40%; text-align: center;">Lot Name</th> <th style="width: 50%; text-align: center;">Nature of SLCC</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>Food Processing Laboratory</td> <td>Contract similar to the supply and/or installation of food processing equipment and/or kitchen tools and appliances, and sewage treatment facility</td> </tr> <tr> <td style="text-align: center;">2</td> <td>Industrial Automation</td> <td>Contract similar to supply and/or installation/integration of industrial automation and process controls, and/or training equipment</td> </tr> <tr> <td style="text-align: center;">3</td> <td>Building Automation</td> <td rowspan="2">Contract similar to supply and/or installation/integration of building automation, electrical systems, and/or training equipment</td> </tr> <tr> <td style="text-align: center;">4</td> <td>Other Devices for Industrial Automation</td> </tr> <tr> <td style="text-align: center;">5</td> <td>IT Equipment</td> <td>Contract similar to supply and set-up of IT/multimedia equipment</td> </tr> <tr> <td style="text-align: center;">6</td> <td>IT Networks</td> <td rowspan="2">Contract similar to supply and/or installation of local area network and video surveillance</td> </tr> <tr> <td style="text-align: center;">7</td> <td>Security Camera System</td> </tr> <tr> <td style="text-align: center;">8</td> <td>Office Furniture and Equipment</td> <td>Contract similar to the supply/setup of office furniture and equipment</td> </tr> <tr> <td style="text-align: center;">9</td> <td>Air Conditioning System</td> <td>Contract similar to the supply and/or installation of air conditioning system</td> </tr> <tr> <td style="text-align: center;">10</td> <td>Transport Refrigeration</td> <td>Contract similar to the supply and/or installation of refrigeration equipment</td> </tr> </tbody> </table> <p>The foregoing contract/s must be at least equivalent to fifty percent (50%) of the ABC of the bidded lot/s; and</p> <p>b. completed within <b>five (5) years</b> prior to the deadline for the submission and receipt of bids.</p>		Lot No.	Lot Name	Nature of SLCC	1	Food Processing Laboratory	Contract similar to the supply and/or installation of food processing equipment and/or kitchen tools and appliances, and sewage treatment facility	2	Industrial Automation	Contract similar to supply and/or installation/integration of industrial automation and process controls, and/or training equipment	3	Building Automation	Contract similar to supply and/or installation/integration of building automation, electrical systems, and/or training equipment	4	Other Devices for Industrial Automation	5	IT Equipment	Contract similar to supply and set-up of IT/multimedia equipment	6	IT Networks	Contract similar to supply and/or installation of local area network and video surveillance	7	Security Camera System	8	Office Furniture and Equipment	Contract similar to the supply/setup of office furniture and equipment	9	Air Conditioning System	Contract similar to the supply and/or installation of air conditioning system	10	Transport Refrigeration	Contract similar to the supply and/or installation of refrigeration equipment
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<b>7.1</b>	The Procuring Entity has prescribed that subcontracting is not allowed.																																												
<b>11.4</b>	Not applicable.																																												
<b>12.1 (b)</b>	The price of the Goods shall be quoted DDP in the Philippines.																																												
<b>14.1</b>	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <table border="1"> <thead> <tr> <th><b>Lot No.</b></th> <th><b>Lot Title</b></th> <th><b>Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)</b></th> <th><b>Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5% of ABC)</b></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Food Processing Laboratory</td> <td>₱1,582,936.82</td> <td>₱3,957,342.04</td> </tr> <tr> <td>2</td> <td>Industrial Automation</td> <td>₱1,242,612.19</td> <td>₱3,106,530.48</td> </tr> <tr> <td>3</td> <td>Building Automation</td> <td>₱87,119.91</td> <td>₱217,799.78</td> </tr> <tr> <td>4</td> <td>Additional Devices for Building Automation</td> <td>₱145,727.00</td> <td>₱364,317.49</td> </tr> <tr> <td>5</td> <td>IT Equipment</td> <td>₱441,068.29</td> <td>₱1,102,670.73</td> </tr> <tr> <td>6</td> <td>IT Networks</td> <td>₱39,994.10</td> <td>₱99,985.25</td> </tr> <tr> <td>7</td> <td>Security Camera System</td> <td>₱33,516.88</td> <td>₱83,792.20</td> </tr> <tr> <td>8</td> <td>Office Furniture and Equipment</td> <td>₱225,805.76</td> <td>₱564,514.39</td> </tr> <tr> <td>9</td> <td>Air Conditioning System</td> <td>₱152,943.26</td> <td>₱382,358.14</td> </tr> <tr> <td>10</td> <td>Transport Refrigeration</td> <td>₱48,274.14</td> <td>₱120,685.36</td> </tr> </tbody> </table>	<b>Lot No.</b>	<b>Lot Title</b>	<b>Cash, Cashier's/ Manager's Check, Bank Draft/ Guarantee or Irrevocable Letter of Credit (2% of ABC)</b>	<b>Surety Bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission (5% of ABC)</b>	1	Food Processing Laboratory	₱1,582,936.82	₱3,957,342.04	2	Industrial Automation	₱1,242,612.19	₱3,106,530.48	3	Building Automation	₱87,119.91	₱217,799.78	4	Additional Devices for Building Automation	₱145,727.00	₱364,317.49	5	IT Equipment	₱441,068.29	₱1,102,670.73	6	IT Networks	₱39,994.10	₱99,985.25	7	Security Camera System	₱33,516.88	₱83,792.20	8	Office Furniture and Equipment	₱225,805.76	₱564,514.39	9	Air Conditioning System	₱152,943.26	₱382,358.14	10	Transport Refrigeration	₱48,274.14	₱120,685.36
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<b>15</b>	<p>Each Bidder shall submit one copy of the first and second components of its Bid.</p> <p>The Procuring Entity requests two (2) additional hard copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.</p> <p>The duplicates - copies 1 and 2 - must include the same documents as that of the original set of documents. However, if a bidder opts to submit cash as its bid security, copies 1 and 2 need not contain photocopies of the same.</p>																																												

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19.3	<p>The Project will be awarded by lot, and the items in each lot are listed in Section VII (Technical Specifications) of the Bidding Documents. The details of which are as follows:</p>																																															
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20.1	<ul style="list-style-type: none"> <li>● Proof of ongoing/outstanding contract/s as identified in the Statement of Ongoing Contracts Awarded but Not Yet Started Contracts, which shall include a copy of any verifiable document(s) such as but not limited to the following: (a) Notice of Award; (b) Contract/s or Purchase Order/s; and (c) Notice to Proceed.</li> <li>● Proof of completion of the single largest contract as identified in the Statement of Single Largest Completed Contract, which shall include a copy of any verifiable document(s) such as but not limited to the following: (a) Contract/s or Purchase Order/s; (b) corresponding Sales Invoice/s; (c) Official Receipt/Cash Receipt/Collection Receipt; and (d) Certificate of Performance Evaluation (template of which is hereto attached as Annex "A").</li> <li>● Submission of pieces of evidence such as but not limited to the following: <ul style="list-style-type: none"> <li>✓ Brochure/Catalog of the goods offered, indicating the make and model and specification of the item offered;</li> <li>✓ A technical data sheet can be provided in case the brochure does not contain the full details of the goods offered;</li> <li>✓ Audio-visual presentation of items, as required, in each lot;</li> <li>✓ Certification of availability of spare parts for the next five (5) years from the manufacturer for Lot 2 (Industrial Automation) and Lot 3 (Building Automation); and</li> <li>✓ Training proposal indicating the duration, scope of training and the responsibility of the bidder in the training implementation.</li> </ul> </li> <li>*● Latest Annual Income Tax Returns (BIR Form 1701 or 1702) as filed through the Electronic Filing and Payment System (eFPS).</li> </ul>																																															



<b>ITB Clause</b>	
	<ul style="list-style-type: none"> <li>*• Either of the following:               <ul style="list-style-type: none"> <li>a. Value Added Tax Returns (Forms 2550M and 2550Q) covering the previous six (6) months prior to the submission and opening of bids as filed thru eFPS; or</li> <li>b. Percentage Tax Returns (Form 2551M) covering the previous six (6) months prior to the submission and opening of bids as filed thru eFPS.</li> </ul> </li> <li>* Pursuant to BIR Revenue Regulations No. 03-2005 dated 16 February 2005.</li> <li>• A Valid and updated PhilGEPS Certificate of Registration (Platinum Membership), as well as an updated list of eligibility documents as specified in Annex "A" of said Certificate of Registration. If the said Certificate of Registration is no longer valid during the post-qualification, the bidder must submit an updated one.</li> <li>• For verification purposes, the documents listed in Annex "A" of the PhilGEPS Certificate of Registration (Platinum Membership) must be submitted.</li> <li>• Documents submitted during post-qualification as part of post-qualification documents must be certified by the authorized representative to be true copy/ies of the original.</li> <li>• The veracity of the subscribed Omnibus Sworn Statement submitted in accordance with Sec. 25.3 of the 2016 IRR of RA 9184 may be subject to verification. If found to be non-compliant, this shall serve as ground for post-disqualification as specified in GPPB Circular No. 01-2008 dated 7 March 2008.</li> </ul>
<b>21.2</b>	No additional requirement.

**(Bidder's Client's Company Letterhead)**

**CERTIFICATE OF PERFORMANCE EVALUATION**

This is to certify that       (NAME OF BIDDER)       has provided our company/ agency with **Name of Product/s.** Based on our evaluation on timely delivery, compliance to specifications and performance, warranty and after sales service, we give **(NAME OF BIDDER)** a rating of:

- |                          |                          |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <b>EXCELLENT</b>         |
| <input type="checkbox"/> | <b>VERY SATISFACTORY</b> |
| <input type="checkbox"/> | <b>SATISFACTORY</b>      |
| <input type="checkbox"/> | <b>POOR</b>              |

This Certification shall form part of the Technical Documentary Requirements in line with       (NAME OF BIDDER)       *participation* for the **Procurement of Learning Equipment and Systems for the 2021 Regional TVET Innovation Centers (RTICs).**

Issued this \_\_\_\_\_ day of \_\_\_\_\_ in \_\_\_\_\_, Philippines.

\_\_\_\_\_  
Name of Company (Bidder's Client)

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Address

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Tel./Fax No.

## ***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**

- 5.1. 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.
- 5.2. 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***

## Special Conditions of Contract

GCC Clause	
1	<p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad]</i> “The delivery terms applicable to the Contract are DDP delivered in the Philippines.</p> <p><i>[For Goods supplied from within the Philippines]</i> “The delivery terms applicable to this Contract are delivered as specified in Section VI. Schedule of Requirements, specifically in the designated Regional TVET Innovation Centers (RTICs). Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause, the Procuring Entity’s Representative of the RTICs are the Technical Inspection and Acceptance Committee (TIAC) of the concerned TESDA Technology Institutions (TTIs).</p> <p>A Technical Inspection and Acceptance Committee (TIAC) must be created in each TTI to inspect and verify the delivery of goods for quantity and conformance to agency’s technical specifications. The TTI Administrators will use the Inspection and Acceptance Report (IAR), which must be properly signed by the TIAC, as a reference when issuing a Certificate of Acceptance.</p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> </ol>

GCC Clause	
	<ul style="list-style-type: none"> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract;</li> <li>e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods, as applicable; and</li> <li>f. delivery of goods to the RTICs delivery address at no additional cost to the Procuring Entity.</li> </ul> <p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p> <p><b>Spare Parts – Not available.</b></p>
	<p><b>Packaging –</b></p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>All items per lot/qualification must be packaged with a label. A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p>



<b>GCC Clause</b>	
	<p><b>Transportation –</b></p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Supplier's risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b></p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
<b>2.2</b>	Advance payment is not allowed. Payment in favor of the supplier shall only be made upon full delivery and final acceptance of the equipment.

<b>GCC Clause</b>	
<b>3</b>	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.
<b>4</b>	<p>The test parameters to be used during the inspection of the goods being offered by the bidder will generally be:</p> <ul style="list-style-type: none"> <li>• <b>Goods.</b> The supplied goods will be evaluated in terms of: <ul style="list-style-type: none"> <li>○ Correctness of actual quantity vis-à-vis quantity indicated in this TOR</li> <li>○ Compliance of actual goods to the submitted proposal in the post qualification evaluation (this includes accessories indicated in some items)</li> <li>○ Signs of physical defects, such dents, broken parts, etc.</li> <li>○ Quality of work for items requiring installation and set-up</li> <li>○ Functionality and features</li> </ul> </li> <li>• <b>Training.</b> The training will be evaluated in terms of: <ul style="list-style-type: none"> <li>○ Completeness of scope, duration and arrangement vis-à-vis training proposal submitted in the post qualification evaluation.</li> </ul> </li> </ul> <p>Specific requirements are found in Annexes "D1" to "D10" of the Bidding Documents.</p>
<b>5.1</b>	One (1) year on-site warranty for all items except those that are classified as accessories. This also includes replacement of goods found to be defective within 7-days from date of acceptance.
<b>5.2</b>	The effectiveness of the warranty period is from the date of acceptance.

## **Section VI. Schedule of Requirements**

The delivery schedule expressed in calendar days stipulates hereafter a delivery date which is the date of delivery to the designated delivery address of the Regional TVET Innovation Centers (RTICs), as well as the distribution list attached as **Annex B** and **Annex C**.

<b>Lot No.</b>	<b>Description</b>	<b>Delivered Weeks/Months</b>
1	Food Processing Laboratory	Within sixty (60) calendar days upon receipt of Notice to Proceed
2	Industrial Automation	
3	Building Automation	
4	Additional Devices for Industrial Automation	
5	IT Equipment	
6	IT Networks	
7	Security Camera System	
8	Office Furniture and Equipment	
9	Air Conditioning System	
10	Transport Refrigeration	

### **A. Scope of work**

This project shall cover the following:

- delivery, installation, commissioning of goods; and
- training of trainers

### **B. Installation Requirements and Arrangements**

- The end-user shall ensure that the installation site for the equipment is ready prior to the delivery of goods: This may include:
  - provision of equipment layout; and/or
  - access to source line (power and/or water). Tapping/connection point should not be more than 10 ft away from the location of the equipment to be installed.
- The supplier shall cover for the cost of the following:
  - Electrical system – which may include the following: enclosure/s, protective device(s), conduit and wires (10 ft)
  - Frame/Mounting platform/fixtures
  - Piping system (10 ft), as applicable

- Provision of special/proprietary tools and/or instruments needed for the installation and/or configuration of the equipment. This tool/ instrument shall be turned over to the end user as part of the equipment package.

### **C. Training Requirements and Arrangements**

The procurement of goods under this project includes two levels of training:

- **Level 1: Utilization and maintenance (1~2 days)**  
The winning bidder per lot will provide training on the familiarization, utilization, and maintenance of each equipment.
- **Level 2: Technology specific training (10 days per lot or 2 weeks)**  
The winning bidder on the following lots will provide face-to-face or hybrid training, see details below:

*Note: Hybrid training should have at least five days face-to-face session*

- **Lot 1: Food Processing Laboratory**  
*The training should cover design, installation set-up, configuration, programming and operation of the equipment. Moreover, the training should also provide training in the use the equipment to at least two food processes per machine.*
- **Lot 2: Industrial Automation**  
*The training should cover design, installation set-up, configuration, programming and operation. The training should also cover a walk through on the course and learning materials that come with the package. See technical specification of this lot for details.*
- **Lot 3: Building Automation**  
*The training should cover installation, configuration, development of programs using different cases of building management and automation systems. The training should cover at least five (5) different building automation use cases and a certification training to at least two (2) TESDA personnel in KNX.*
- **Lot 4: Other Devices for Industrial Automation**  
*The training should cover installation, configuration, development of programs using different cases of building management and automation systems. The training should cover at least five (5) different building automation use cases.*
- **Lot 5: IT Equipment**  
*The training should cover familiarization with the features of each device/gadget/equipment, the OS environment and the use of the creative software bundle in data analytics, marketing and promotional materials development.*

The training will be held at the institution where the equipment will be delivered.

The receiving institutions will cover the costs of the training venue, snacks and meals during training while the supplier will cover all other costs such as, but not limited to:

- Honoraria of the trainer;
- Accommodation of the trainer;
- Supplies and materials required for the training; and
- Reproduction of the learning materials (maximum of 10 copies).

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**DELIVERY ADDRESS PER RTC**

<b>Region</b>	<b>Delivery Address</b>
II	Isabela School of Arts and Trades (ISAT), Calamagui II, Ilagan City, Isabela
NCR	Regional Training Center-National Capital Region, Gate 2, Bldg. 14, TESDA Complex, East Service Rd., SLEX, Fort Bonifacio, Taguig
XI	Regional Training Center/Korea Philippines Vocational Training Center – Davao (RTC/KorPhil-Davao), Buhisan, Tibungco, Davao City
I	Provincial Training Center – Urdaneta (PTC-Urdaneta), Anonas, Urdaneta City, Pangasinan
III	Regional Training Center – Mariveles (RTC-Mariveles), Brgy. Camaya, Mariveles, Bataan

**I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.**

\_\_\_\_\_  
**Name of Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of  
Authorized Representative**

\_\_\_\_\_  
**Date**



**DISTRIBUTION OF ITEMS BY RTIC**

(Refer to Annexes D1 to D10 for the technical specifications of each item.  
Use the Item Code for referencing.)

Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
II	ISAT	01-001	Food Processing Laboratory	Food Tools and Equipment	1	set
II	ISAT	01-002	Food Processing Laboratory	Food Science	1	set
II	ISAT	01-003	Food Processing Laboratory	Modular Sewerage Treatment Plant	1	lot
II	ISAT	07-003	Security Camera System	Closed-Circuit Television (CCTV) Installation and Configuration - ISAT	1	lot
II	ISAT	08-001	Office Furniture and Equipment	Computer Table	20	pc
II	ISAT	08-002	Office Furniture and Equipment	Trainer table	12	pc
II	ISAT	08-004	Office Furniture and Equipment	Gas Lift Chair	26	pc
II	ISAT	08-005	Office Furniture and Equipment	Conference Table, 6-seater	2	set
II	ISAT	08-008	Office Furniture and Equipment	Conference Table, 14-seater	2	pc
II	ISAT	08-011	Office Furniture and Equipment	4-pax Office Workstation	8	set
II	ISAT	08-012	Office Furniture and Equipment	L-shape Table	4	pc
II	ISAT	08-013	Office Furniture and Equipment	Collapsible Display Board	10	pc
II	ISAT	08-014	Office Furniture and Equipment	Movable White Board	10	pc
II	ISAT	08-015	Office Furniture and Equipment	Wall Mounted White Board	10	pc
II	ISAT	08-018	Office Furniture and Equipment	Locker Cabinet	6	pc
II	ISAT	08-019	Office Furniture and Equipment	Vertical Filing Cabinet	20	pc
II	ISAT	08-020	Office Furniture and Equipment	Chair	75	pc
II	ISAT	08-021	Office Furniture and Equipment	Gang Chair	2	pc
II	ISAT	08-022	Office Furniture and Equipment	Trainer table, long	20	pc
II	ISAT	08-024	Office Furniture and Equipment	5 layer open shelf cabinet	25	pc
II	ISAT	08-025	Office Furniture and Equipment	5-tier Collapsible Metal Rack	10	pc
II	ISAT	08-026	Office Furniture and Equipment	Full Height Glass Sliding Door Cabinet	10	pc
II	ISAT	08-027	Office Furniture and Equipment	Glass Cabinet	10	pc
II	ISAT	08-029	Office Furniture and Equipment	Storage Cabinet	4	pc

Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
II	ISAT	08-034	Office Furniture and Equipment	Guest Chair with armrest	20	pc
II	ISAT	08-035	Office Furniture and Equipment	4-Layer Lateral Filing Cabinet	8	pc
II	ISAT	08-036	Office Furniture and Equipment	Executive Chair	10	pc
II	ISAT	08-038	Office Furniture and Equipment	Reception Desk	1	pc
II	ISAT	08-041	Office Furniture and Equipment	Ceiling Fan	10	unit
II	ISAT	09-001	Air Conditioning System	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	14	set
II	ISAT	09-002	Air Conditioning System	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted	3	set
II	ISAT	10-001	Transport Refrigeration	Reefer Container/ Transport Refrigeration Unit	2	unit
NCR	RTC-NCR	03-001	Building Automation	Direct Digital Controller	2	unit
NCR	RTC-NCR	03-002	Building Automation	8 Digital Input Module	2	unit
NCR	RTC-NCR	03-003	Building Automation	16 Digital Input Module	2	unit
NCR	RTC-NCR	03-004	Building Automation	6 Relay Output Module	2	unit
NCR	RTC-NCR	03-005	Building Automation	6 Relay Output Module with Override	2	unit
NCR	RTC-NCR	03-006	Building Automation	8 Universal I/O Module	2	unit
NCR	RTC-NCR	03-007	Building Automation	8 Universal I/O Module, Override and LCD	2	unit
NCR	RTC-NCR	03-008	Building Automation	8 Universal I/O Module, 4-20mA	2	unit
NCR	RTC-NCR	03-009	Building Automation	8 Universal I/O Module, 4-20mA, Override and LCD	2	unit
NCR	RTC-NCR	03-010	Building Automation	Compact Room Automation Station	2	unit
NCR	RTC-NCR	03-011	Building Automation	Temperature Sensor	2	unit
NCR	RTC-NCR	03-012	Building Automation	Humidity Sensor	2	unit
NCR	RTC-NCR	03-013	Building Automation	Air Quality Sensor	2	unit
NCR	RTC-NCR	03-014	Building Automation	VAV Actuator	2	unit
NCR	RTC-NCR	03-015	Building Automation	Lighting Actuator	2	unit
NCR	RTC-NCR	03-016	Building Automation	KNX Training Kit	5	set
NCR	RTC-NCR	04-001	Additional Devices for Industrial Automation	SCADA Station and Accessories	1	set
NCR	RTC-NCR	05-001	IT Equipment	LED Wall	1	set
NCR	RTC-NCR	05-002	IT Equipment	Desktop Computer for Productivity Application	25	set
NCR	RTC-NCR	05-003	IT Equipment	Desktop Computer for 3D Design	5	set
NCR	RTC-NCR	05-004	IT Equipment	Tablet for illustration and light video editing	35	set
NCR	RTC-NCR	05-005	IT Equipment	Ultralight Laptop	11	set



Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
NCR	RTC-NCR	05-006	IT Equipment	Adobe Creative Cloud All Apps	26	license
NCR	RTC-NCR	05-007	IT Equipment	Microsoft Office 365	25	license
NCR	RTC-NCR	06-001	IT Networks	Local Area Network (LAN) Installation and Configuration - RTC-NCR	1	lot
NCR	RTC-NCR	07-001	Security Camera System	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-NCR	1	lot
NCR	RTC-NCR	08-001	Office Furniture and Equipment	Computer Table	10	pc
NCR	RTC-NCR	08-002	Office Furniture and Equipment	Trainer table	5	pc
NCR	RTC-NCR	08-004	Office Furniture and Equipment	Gas Lift Chair	26	pc
NCR	RTC-NCR	08-006	Office Furniture and Equipment	Conference Table, 8-seater	1	pc
NCR	RTC-NCR	08-008	Office Furniture and Equipment	Conference Table, 14-seater	1	pc
NCR	RTC-NCR	08-009	Office Furniture and Equipment	Conference Table, 16-seater	1	pc
NCR	RTC-NCR	08-011	Office Furniture and Equipment	4-pax Office Workstation	2	set
NCR	RTC-NCR	08-020	Office Furniture and Equipment	Chair	75	pc
NCR	RTC-NCR	08-021	Office Furniture and Equipment	Gang Chair	2	pc
NCR	RTC-NCR	08-024	Office Furniture and Equipment	5 layer open shelf cabinet	2	pc
NCR	RTC-NCR	08-026	Office Furniture and Equipment	Full Height Glass Sliding Door Cabinet	2	pc
NCR	RTC-NCR	08-027	Office Furniture and Equipment	Glass Cabinet	4	pc
NCR	RTC-NCR	08-034	Office Furniture and Equipment	Guest Chair with armrest	2	pc
NCR	RTC-NCR	08-035	Office Furniture and Equipment	4-Layer Lateral Filing Cabinet	6	pc
NCR	RTC-NCR	08-036	Office Furniture and Equipment	Executive Chair	2	pc
NCR	RTC-NCR	08-038	Office Furniture and Equipment	Reception Desk	1	pc
NCR	RTC-NCR	09-001	Air Conditioning System	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	10	set
NCR	RTC-NCR	09-002	Air Conditioning System	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted	8	set
XI	RTC/KorPhil-Davao	02-001	Industrial Automation	Pressure, Flow, Level, Temperature Process Learning Systems	1	set
XI	RTC/KorPhil-Davao	02-002	Industrial Automation	Industrial Automation 4.0	1	set

Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
XI	RTC/KorPhil-Davao	02-003	Industrial Automation	IoT and Embedded Applications Complete Set	4	set
XI	RTC/KorPhil-Davao	02-004	Industrial Automation	Home Plant Factory	4	set
XI	RTC/KorPhil-Davao	02-005	Industrial Automation	Irrigation Controller	4	unit
XI	RTC/KorPhil-Davao	02-006	Industrial Automation	Smart Environment Controller	4	unit
XI	RTC/KorPhil-Davao	02-007	Industrial Automation	LED Grow Light Board	4	unit
XI	RTC/KorPhil-Davao	02-008	Industrial Automation	Soil Moisture Sensor	4	unit
XI	RTC/KorPhil-Davao	02-009	Industrial Automation	Agricultural Drone	1	set
XI	RTC/KorPhil-Davao	05-001	IT Equipment	LED Wall	1	set
I	PTC-Urdaneta	05-003	IT Equipment	Desktop Computer for 3D Design	5	set
I	PTC-Urdaneta	07-002	Security Camera System	Closed-Circuit Television (CCTV) Installation and Configuration - PTC-Urdaneta	1	lot
I	PTC-Urdaneta	08-001	Office Furniture and Equipment	Computer Table	12	pc
I	PTC-Urdaneta	08-002	Office Furniture and Equipment	Trainer table	5	pc
I	PTC-Urdaneta	08-003	Office Furniture and Equipment	Steel Square Legs Table	7	pc
I	PTC-Urdaneta	08-004	Office Furniture and Equipment	Gas Lift Chair	51	pc
I	PTC-Urdaneta	08-007	Office Furniture and Equipment	Conference Table, 12-seater	1	set
I	PTC-Urdaneta	08-010	Office Furniture and Equipment	Single cubicle workstation	16	set
I	PTC-Urdaneta	08-011	Office Furniture and Equipment	4-pax Office Workstation	2	set
I	PTC-Urdaneta	08-012	Office Furniture and Equipment	L-shape Table	12	pc
I	PTC-Urdaneta	08-014	Office Furniture and Equipment	Movable White Board	2	pc
I	PTC-Urdaneta	08-016	Office Furniture and Equipment	Wall Mounted White Board, 4' x 8'	2	pc
I	PTC-Urdaneta	08-017	Office Furniture and Equipment	Panel Divider	2	pc
I	PTC-Urdaneta	08-018	Office Furniture and Equipment	Locker Cabinet	3	pc
I	PTC-Urdaneta	08-019	Office Furniture and Equipment	Vertical Filing Cabinet	3	pc
I	PTC-Urdaneta	08-020	Office Furniture and Equipment	Chair	125	pc
I	PTC-Urdaneta	08-021	Office Furniture and Equipment	Gang Chair	2	pc
I	PTC-Urdaneta	08-022	Office Furniture and Equipment	Trainer table, long	15	pc

Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
I	PTC-Urdaneta	08-023	Office Furniture and Equipment	Foldable Training Table	20	pc
I	PTC-Urdaneta	08-024	Office Furniture and Equipment	5 layer open shelf cabinet	6	pc
I	PTC-Urdaneta	08-025	Office Furniture and Equipment	5-tier Collapsible Metal Rack	2	pc
I	PTC-Urdaneta	08-026	Office Furniture and Equipment	Full Height Glass Sliding Door Cabinet	3	pc
I	PTC-Urdaneta	08-028	Office Furniture and Equipment	Tool Cabinet	1	pc
I	PTC-Urdaneta	08-029	Office Furniture and Equipment	Storage Cabinet	1	pc
I	PTC-Urdaneta	08-030	Office Furniture and Equipment	Preparation Table, 2 layers	10	pc
I	PTC-Urdaneta	08-031	Office Furniture and Equipment	Stool chair with backrest	75	pc
I	PTC-Urdaneta	08-032	Office Furniture and Equipment	Stool chair	50	pc
I	PTC-Urdaneta	08-033	Office Furniture and Equipment	Guest Chair	3	pc
I	PTC-Urdaneta	08-034	Office Furniture and Equipment	Guest Chair with armrest	6	pc
I	PTC-Urdaneta	08-035	Office Furniture and Equipment	4-Layer Lateral Filing Cabinet	4	pc
I	PTC-Urdaneta	08-036	Office Furniture and Equipment	Executive Chair	5	pc
I	PTC-Urdaneta	08-037	Office Furniture and Equipment	Arm Desk	25	pc
I	PTC-Urdaneta	08-038	Office Furniture and Equipment	Reception Desk	1	pc
I	PTC-Urdaneta	08-039	Office Furniture and Equipment	Stage Platform	1	set
I	PTC-Urdaneta	08-040	Office Furniture and Equipment	Axial Exhaust Fan	2	unit
I	PTC-Urdaneta	08-041	Office Furniture and Equipment	Ceiling Fan	9	unit
I	PTC-Urdaneta	09-001	Air Conditioning System	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	9	set
I	PTC-Urdaneta	09-002	Air Conditioning System	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted	8	set
III	RTC-Mariveles	05-003	IT Equipment	Desktop Computer for 3D Design	5	set
III	RTC-Mariveles	07-004	Security Camera System	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-Mariveles	1	lot
III	RTC-Mariveles	08-001	Office Furniture and Equipment	Computer Table	10	pc
III	RTC-Mariveles	08-002	Office Furniture and Equipment	Trainer table	5	pc
III	RTC-Mariveles	08-004	Office Furniture and Equipment	Gas Lift Chair	26	pc

Region	RTIC Name	Item Code	Lot	Item/Group Name	Qty	Unit
III	RTC-Mariveles	08-008	Office Furniture and Equipment	Conference Table, 14-seater	1	pc
III	RTC-Mariveles	08-011	Office Furniture and Equipment	4-pax Office Workstation	2	set
III	RTC-Mariveles	08-013	Office Furniture and Equipment	Collapsible Display Board	5	pc
III	RTC-Mariveles	08-014	Office Furniture and Equipment	Movable White Board	2	pc
III	RTC-Mariveles	08-018	Office Furniture and Equipment	Locker Cabinet	3	pc
III	RTC-Mariveles	08-019	Office Furniture and Equipment	Vertical Filing Cabinet	3	pc
III	RTC-Mariveles	08-020	Office Furniture and Equipment	Chair	75	pc
III	RTC-Mariveles	08-021	Office Furniture and Equipment	Gang Chair	2	pc
III	RTC-Mariveles	08-022	Office Furniture and Equipment	Trainer table, long	15	pc
III	RTC-Mariveles	08-024	Office Furniture and Equipment	5 layer open shelf cabinet	2	pc
III	RTC-Mariveles	08-025	Office Furniture and Equipment	5-tier Collapsible Metal Rack	5	pc
III	RTC-Mariveles	08-026	Office Furniture and Equipment	Full Height Glass Sliding Door Cabinet	2	pc
III	RTC-Mariveles	08-027	Office Furniture and Equipment	Glass Cabinet	2	pc
III	RTC-Mariveles	08-029	Office Furniture and Equipment	Storage Cabinet	2	pc
III	RTC-Mariveles	08-035	Office Furniture and Equipment	4-Layer Lateral Filing Cabinet	2	pc
III	RTC-Mariveles	08-036	Office Furniture and Equipment	Executive Chair	5	pc
III	RTC-Mariveles	08-038	Office Furniture and Equipment	Reception Desk	1	pc
III	RTC-Mariveles	08-040	Office Furniture and Equipment	Axial Exhaust Fan	5	unit
III	RTC-Mariveles	09-001	Air Conditioning System	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	10	set
III	RTC-Mariveles	09-002	Air Conditioning System	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted	8	set

I hereby commit to comply and deliver all the above requirements in accordance with the above stated schedule.

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of  
Authorized Representative

\_\_\_\_\_  
Date

# ***Section VII. Technical Specifications***



# Technical Specifications

**Lot 1 : Food Processing Laboratory**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Food Tools and Equipment	Kindly refer to the technical specifications attached as Annex D1.	1	set			
2	Food Science		1	set			
3	Modular Sewerage Treatment Plant		1	lot			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D1.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# ANNEX D1

Lot No.	Lot	Code	Item/Group Name	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
1	Food Processing Laboratory	01-001	Food Tools and Equipment	Refer to Technical Specification of Item Code 01-001 for specific item, quantity per item and technical specification	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes
1	Food Processing Laboratory	01-002	Food Science	Refer to Technical Specification of Item Code 01-002 for specific item, quantity per item and technical specification	Equipment		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes
1	Food Processing Laboratory	01-003	Modular Sewerage Treatment Plant	Refer to Technical Specification of Item Code 01-003	Equipment		- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

# TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>Food Processing Tools and Equipment</b>
<b>Item Code</b>	<b>01-001</b>
<b>Technology Area(s)</b>	<b>Food Processing Laboratory</b>

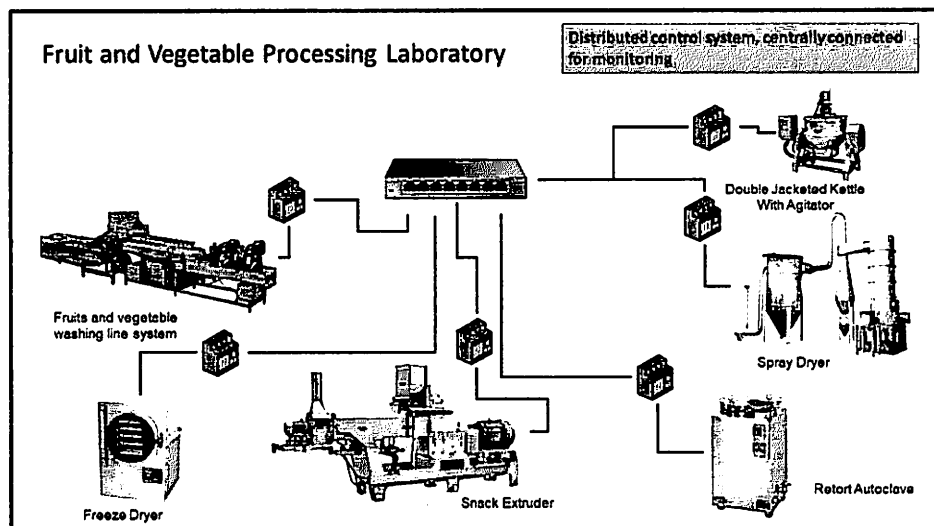
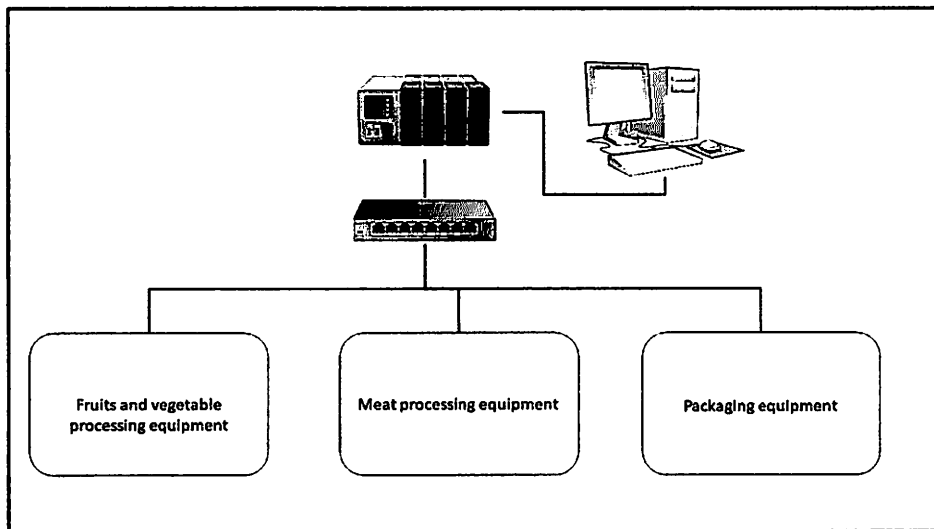
- **Technical Design**

The food processing tools and equipment is composed of: (1) interconnected semi-automated food processing equipment for data logging and monitoring; and (2) stand alone food processing tools equipment.

- **Interconnected semi-automated food processing equipment**

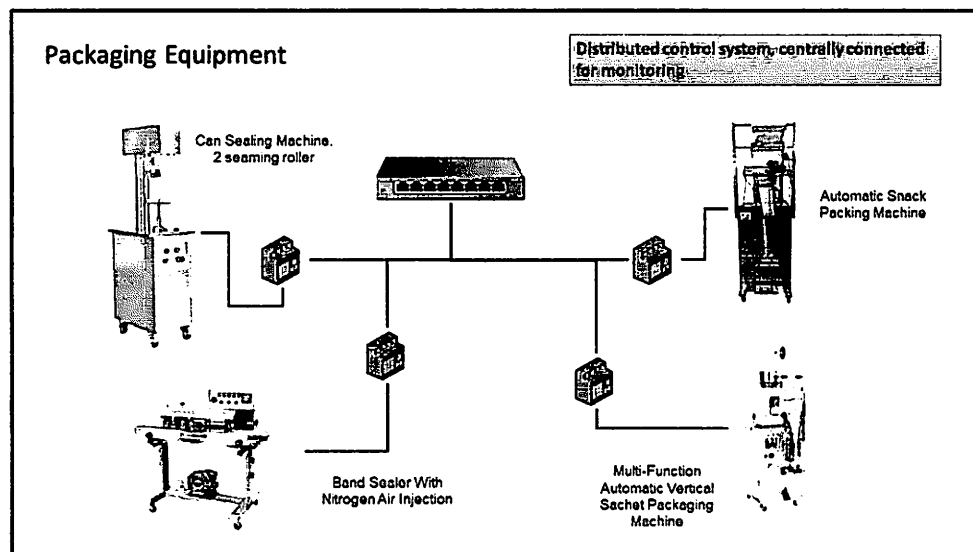
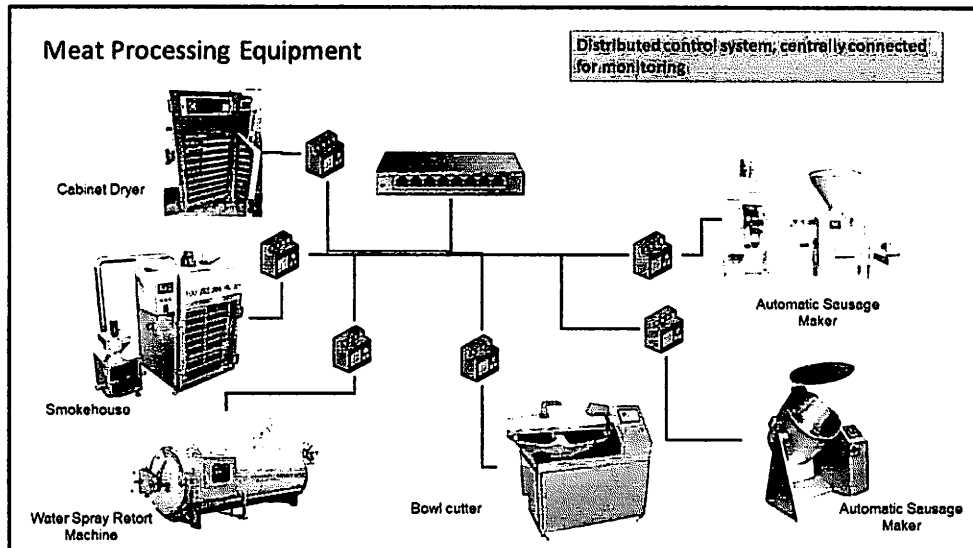
- **Design**

The equipment shall be interconnected through a programmable logic controller (PLC). Each machine will be controlled locally, however this PLCs will be interconnected for data gathering such as number of products produced, machine run-time, system failures and others.



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■ **General Parameters**

- **Electrical requirements:** 220V 60Hz AC Single phase, supplier can provide transformer to make the machine compliant to the electrical requirements
- **Heat source:** Liquefied Petroleum Gas. Suppliers are required to install gas pipes from the equipment to the LPG tanks outside the building.
- 20pcs 53 Kg newLPG tanks should be provided
- All equipment with pressure, temperature, flow and level will use PID controls via programmable logic controller and at least 8 inches Human Machine Interface for better management.
- Process devices should be compliant to MODBUS, HART and other international standard field buses and the comprehensive integration of various heterogeneous systems
- A dedicated computer should be provided for system monitoring with a dashboard showing the operation and other relevant information of each machine.

- Remote monitoring of machine operation using other devices (tabs, mobile phone) should be possible.
- Includes one license for PLC and HMI programming and an editable version of PLC and HMI program for the system.

■ **Equipment List**

Item Code	Item Name	Quantity	Unit Measure
<b>Fruits and Vegetable Processing</b>			
01-001.001	Fruits and vegetable washing line system	1	set
01-001.002	Double Jacketed Kettle With Agitator	1	set
01-001.003	Retort Autoclave	1	set
01-001.004	Spray Dryer	1	set
01-001.005	Snack Extruder	1	set
01-001.006	Vacuum Frying Machine	1	set
01-001.007	Freeze Dryer	1	set
<b>Fish and Meat Processing Equipment</b>			
01-001.019	Automatic Sausage Maker	1	set
01-001.020	Silent cutter/Bowl cutter	1	set
01-001.021	Smokehouse	1	set
01-001.022	Water Spray Retort Machine	1	set
01-001.023	Cabinet Dryer	1	set
01-001.024	Vacuum Tumbler	1	set
<b>Packaging Equipment</b>			
01-001.030	Can Sealing Machine, 2 seaming roller	1	set
01-001.031	Automatic Snack Packing Machine/Bag Packing Machine Tray Dryer	1	set

Item Code	Item Name	Quantity	Unit Measure
01-001.032	Multi-Function Automatic Vertical Sachet Packaging Machine	1	set
01-001.033	Band Sealer With Nitrogen Air Injection	1	set

○ **Stand alone food processing tools equipment.**

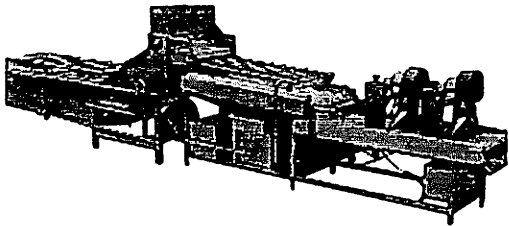
These are equipment and tools that are not connected in the network and can be used in silos.

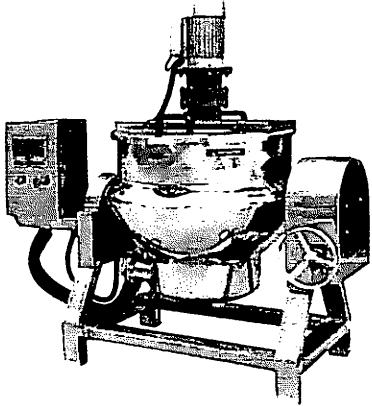
Code	Item Name	Quantity	Unit Measure
<b>Fruite and Vegetable Processing</b>			
01-001.008	Noodle Cutter Machine	1	set
01-001.009	Tabletop Dough Sheeter	1	set
01-001.010	Pulverizer	1	set
01-001.011	Wet and Dry Pulverizer	1	set
01-001.012	Ice Cream Machine	1	set
01-001.013	Food Processor	1	set
01-001.014	Commercial Blender	1	set
01-001.015	Wine Distiller	1	set
01-001.016	Commercial Reverse Osmosis Drinking Water Purification System Plant	1	set
01-001.017	Automatic Juicer	1	set
01-001.018	Food Spinner	1	set
<b>Fish and Meat Processing</b>			
01-001.025	Movable Pneumatic Lifting Homogenizer	1	set
01-001.026	Meat Grinder	1	set
01-001.027	Meat slicer	1	set

<b>Code</b>	<b>Item Name</b>	<b>Quantity</b>	<b>Unit Measure</b>
01-001.028	Heavy duty gas stove	1	set
01-001.029	Band Saw	1	set
<b>Packaging Tools and Equipment</b>			
01-001.034	Cup Sealer	1	set
01-001.035	Semi-Automatic Ropp Screw Capping Machine	1	set
01-001.036	Handheld Electromagnetic Induction Sealer	1	set
01-001.037	Impulse Sealer	1	set
01-001.038	Bottle Cap Sealer	1	set
01-001.039	Vacuum Packing Machine, Table Top	1	set
01-001.040	Vacuum Packing Machine, Floor Model	1	set
<b>Refrigerators and Display Cabinets</b>			
01-001.041	Merchandise Chiller	1	set
01-001.042	Four-Door Refrigerator Freezer	1	set
01-001.043	Refrigerator	1	set
01-001.044	Upright Freezer	1	set
01-001.045	Chest Freezer	1	set
01-001.046	Multideck Display Fridge	1	set
<b>Others</b>			
01-001.047	Wash Sink	1	set
01-001.048	Folding Trolley	1	set
01-001.049	Preparation Table	1	set
01-001.050	Preparation Table, 900 x 2400 mm	1	set

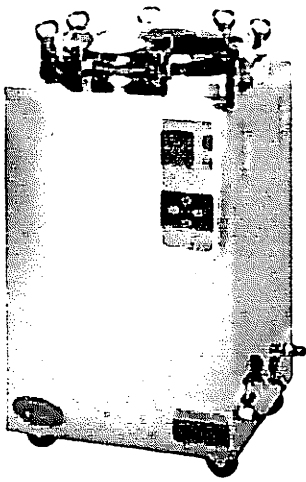
- **Equipment Parameters**

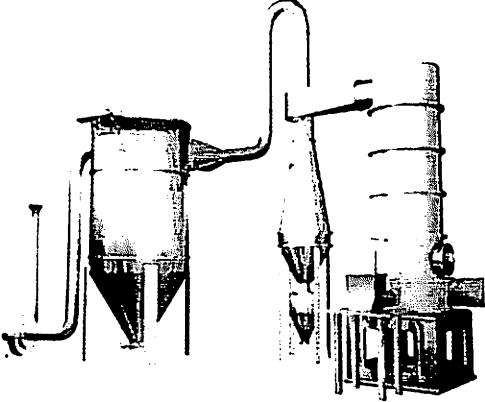
- **Fruits and Vegetable Processing Equipment**

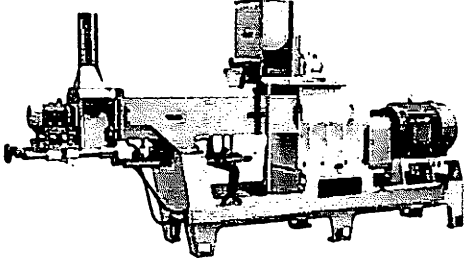
01-001.001	Fruits and vegetable washing line system	
<p>Brief description: Fruits or vegetables will be placed in the washing bin, and the machine will wash the fruits or vegetables automatically (based on configured duration) then will automatically transfer to the drying section, after which will be transferred to vegetable or fruit basket and ready for the next process.</p> <ul style="list-style-type: none"> <li>● Timer-based bubble and spray washing, adjustable bubble and spray pressure.</li> <li>● Automatic dryer with adjustable air pressure and vibration with control</li> <li>● Material: Stainless steel</li> <li>● Production: 200-300 kg/hr</li> <li>● Working space: should not be more than (Lx W) 2mx1.5m</li> <li>● Power 220VAC single phase</li> </ul>		

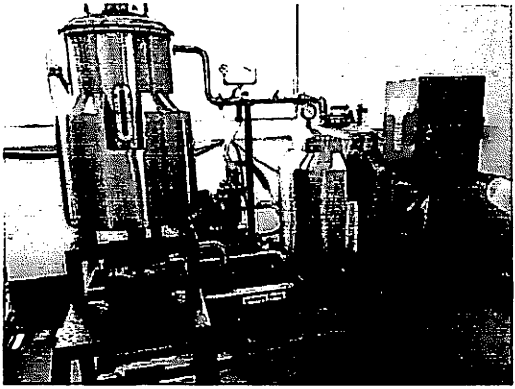
01-001.002	Double Jacketed Kettle With Agitator	
<ul style="list-style-type: none"> <li>● Stainless Steel</li> <li>● Tilttable electric heating jacketed pot</li> <li>● Pourable steam heating jacketed kettle</li> <li>● Pourable gas heating jacketed pot</li> <li>● With agitator</li> <li>● Row anchor stirring</li> <li>● Intelligent control</li> <li>● Capacity: 200 L</li> <li>● Heat source: LPG</li> <li>● Voltage: 220V, 60Hz</li> <li>● With base and tilting frame</li> </ul>		

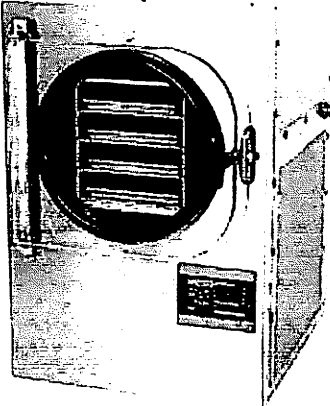


01-001.003	Retort Autoclave	
<ul style="list-style-type: none"> <li>● Vertical</li> <li>● Chamber size: 50 L</li> <li>● Working pressure: Max. 0.25MPa</li> <li>● Working temperature: max. 150°C</li> <li>● Timer: 0-99 min</li> <li>● Dimension: 590 x 590 x 1280 mm</li> <li>● Stainless steel</li> <li>● Digital display, touch screen</li> <li>● Auto cool air and steam discharge after sterilization</li> <li>● Auto shut off with beep after sterilization</li> <li>● With two stainless steel sterilizing basket</li> <li>● With printer function</li> <li>● Heat source: LPG</li> <li>● 220 V 60Hz single phase</li> </ul>		

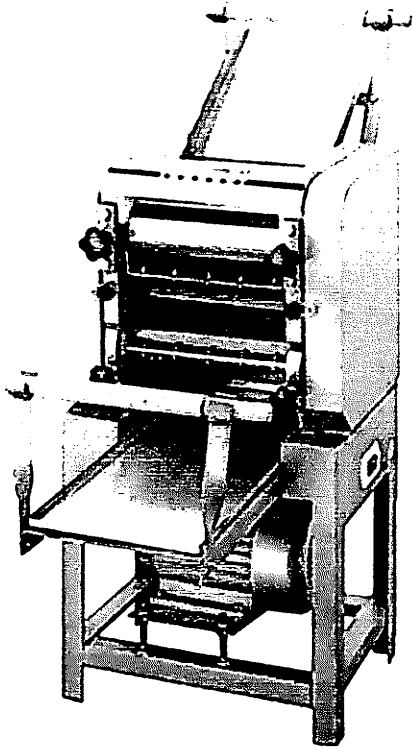
01-001.004	Spray Dryer	
<ul style="list-style-type: none"> <li>● Inlet temperature: 140-350 °C automatic control</li> <li>● Outlet temperature: ~80-90°C</li> <li>● Max water evaporation capacity: 5 kg/h</li> <li>● Centrifugal spraying nozzle transmission mode: Compressed air transmission</li> <li>● Rotation speed: 25000 r.p.m</li> <li>● Spraying disc diameter: 50 mm</li> <li>● Stainless Steel</li> <li>● Heat source: LPG</li> <li>● Voltage: 220V 60Hz</li> <li>● Overall dimension: Should not be more than 2 x (H) 3 m</li> </ul>		

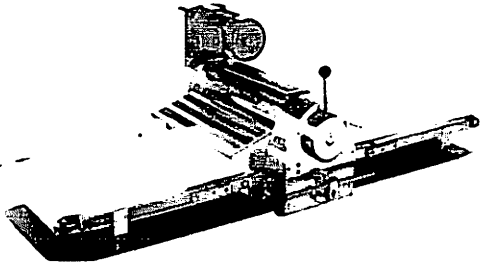
01-001.005	Snack Extruder	
<ul style="list-style-type: none"> <li>● Output: 120-220 Kg/h</li> <li>● Stainless steel</li> <li>● PLC controlled</li> <li>● 75kw</li> </ul>		

01-001.006	Vacuum Frying Machine	
<ul style="list-style-type: none"> <li>● Stainless steel</li> <li>● Input Capacity: 10 kg/batch</li> <li>● Work temperature: 70-120 degree (adjustable)</li> <li>● Processing time: around 45 min/batch</li> <li>● Min. oil volume: 80L/batch</li> <li>● Heat source: LPG</li> <li>● Overall Dimension: Should not be more than (W) 2 x (H) 3 m</li> <li>● Voltage: 220V, 60 Hz</li> </ul>		

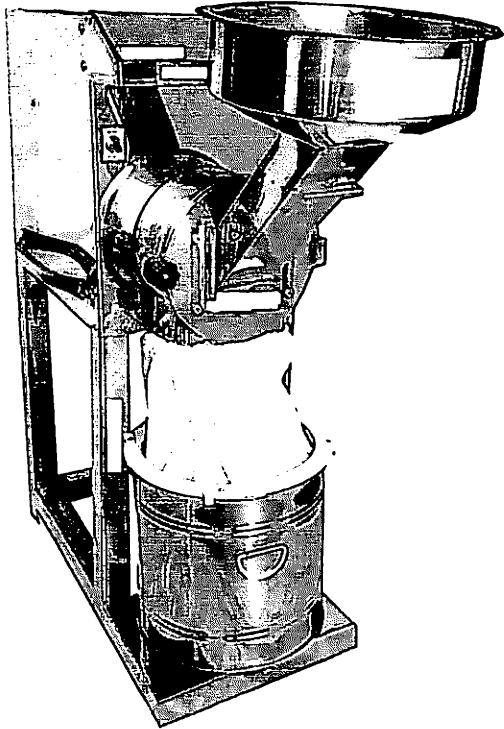
01-001.007	Freeze Dryer	
<ul style="list-style-type: none"> <li>● Silicone Oil Heating In-situ Pilot Freeze Dryer</li> <li>● Drying Capacity: 50 kg/batch</li> <li>● Dry Area: 5 sqm</li> <li>● Evaporation capacity: 3 kg/h</li> <li>● Heating tray: 7-8</li> <li>● Shelf size: 412 x 1400 mm</li> <li>● Tray temperature range: -50°C to +50°C</li> <li>● Touch screen interface</li> <li>● Stainless steel</li> <li>● Dimension: 890 x 1805 x 1540</li> <li>● Power: 15kW, 220V, 60Hz, Single Phase</li> </ul>		

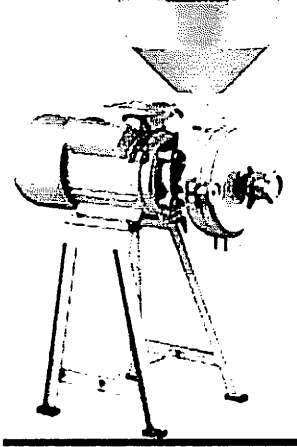


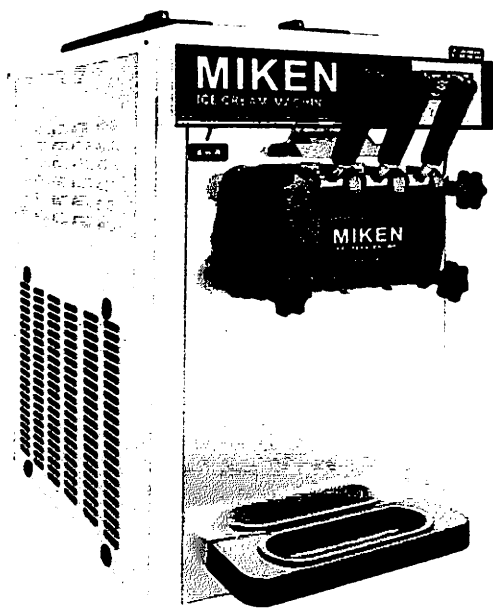
01-001.008	Noodle Cutter Machine	
<ul style="list-style-type: none"> <li>● • Electric</li> <li>● • Production: 20kg/hr</li> <li>● • Dough Thickness: 1- 10 mm</li> <li>● • Roller length: 200 mm</li> <li>● • Flat and Round Cutter</li> <li>● • Stainless steel</li> <li>● • Power: 750W/ 220V/ 60 Hz</li> </ul>		

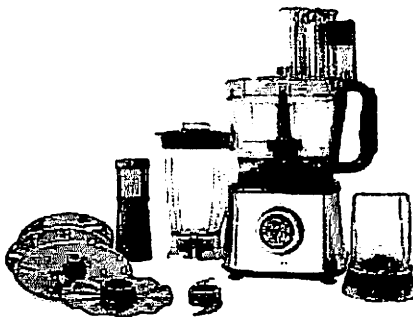
01-001.009	Tabletop Dough Sheeter	
<ul style="list-style-type: none"> <li>● Voltage: 220V 60Hz Single phase</li> <li>● Power: 0.75kW</li> <li>● Working Length: 150 cm</li> <li>● Material: Stainless steel</li> <li>● Roller Speed: 110/180</li> <li>● Automatic</li> </ul>		



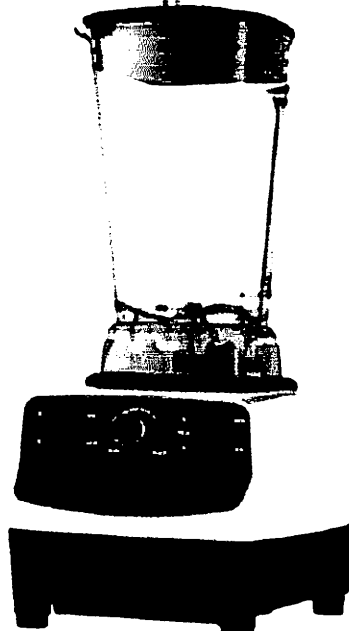
01-001.010	Pulverizer	
<ul style="list-style-type: none"> <li>● Production capacity: 15-20 kg/hour</li> <li>● Crushing bin height: 12.5cm</li> <li>● Spindle speed: 28000 r/min</li> <li>● Feed size: ≤50 mm</li> <li>● Output size: 50-200 mesh</li> <li>● Material: Stainless steel</li> <li>● Swing type</li> <li>● Power: 1500W/ 220V/ 60Hz SP</li> </ul>		

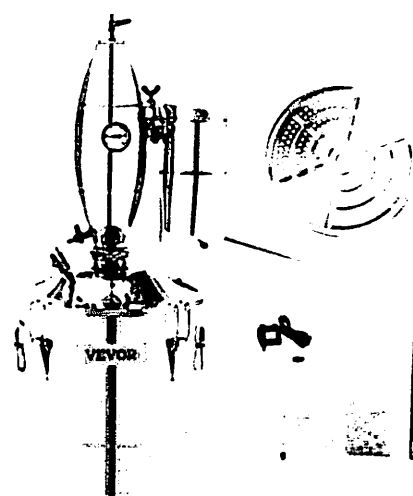
01-001.011	Wet and Dry Pulverizer	
<ul style="list-style-type: none"> <li>● Capacity: 10L</li> <li>● Power: 1500W/ 220V/ 60Hz/ 2HP</li> <li>● Rotating speed: 1400r/min</li> <li>● Aluminum bucket</li> <li>● Metal jug</li> <li>● Iron bracket with anti-slip foot pad</li> </ul>		

01-001.012	Ice Cream Machine	 <p>A black and white photograph of a MIKEN ice cream machine. The machine is a vertical, stainless steel unit with a control panel on the left side. The top of the machine features the brand name 'MIKEN' and 'ICE CREAM MACHINE' in bold letters. Below the control panel, there are three handles/pumps for dispensing ice cream. A hopper is visible on the right side. At the bottom, there is a receiving tray with a leakage holder. The machine is shown from a three-quarter perspective.</p>
<ul style="list-style-type: none"> <li>● Tabletop</li> <li>● 3 handles/pump (for multi-flavor ice cream)</li> <li>● 2 hopper</li> <li>● Automatic/screen touch control</li> <li>● Production: 18-22 L/h</li> <li>● Power: 1600W±10%/ 240V/ 60Hz</li> <li>● Material: Stainless steel</li> <li>● with receiving case/leakage holder</li> </ul>		

01-001.013	Food Processor	 <p>A black and white photograph of a food processor. The main unit is a square-shaped base with a transparent lid. To the left of the base is a large, round, flat disc, likely a slicing or shredding attachment. To the right is a smaller, cylindrical container. The food processor is shown from a three-quarter perspective.</p>
<ul style="list-style-type: none"> <li>● 6L bowl with 3.5L load capacity</li> <li>● Speed of at least 1100 rpm</li> <li>● With two safety switches</li> <li>● Stainless steel housing and blade</li> <li>● Transparent cover</li> <li>● With refill opening</li> <li>● Four rubber feet</li> <li>● Power: 1800W, 220V, 60Hz</li> </ul>		

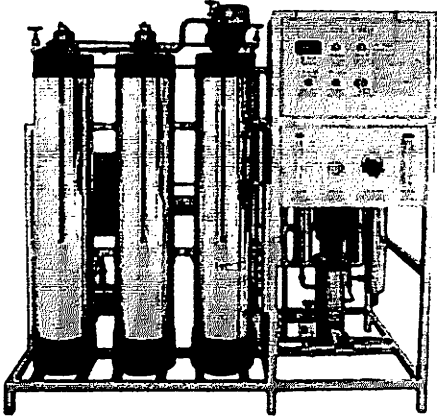
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01-001.014	Commercial Blender	
<ul style="list-style-type: none"> <li>● Countertop</li> <li>● 2L capacity</li> <li>● 6 speed control</li> <li>● 4 stainless steel blade</li> <li>● Plastic pitcher</li> <li>● Non slip base</li> <li>● 1500W, 220V, 60Hz, 2Hp</li> </ul>		

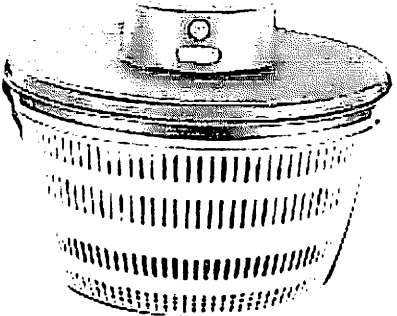
01-001.015	Wine Distiller	
<ul style="list-style-type: none"> <li>● Fermenter Capacity: 50 L/13.2 Gal</li> <li>● Fermenter Size: <math>\Phi 15.7</math>"x<math>15.7</math>" / <math>\Phi 400</math>x<math>400</math> mm</li> <li>● Condensation Barrel Size: <math>\Phi 5.5</math>"x<math>11.0</math>" / <math>\Phi 140</math>x<math>280</math> mm</li> <li>● Input Quantity: about 12.5 kg Rice</li> <li>● Alcohol Steaming Time: 1-2 h (including Heating Time)</li> <li>● 2-stage condensation: external and in-tube</li> <li>● Rectifying tower</li> <li>● With methanol discharged and adsorbed impurities discharged</li> <li>● Stainless steel, red-copper</li> <li>● Loop handles, buckles design, replacement lid</li> <li>● Voltage: 220V, 60 Hz</li> <li>● Package inclusion <ul style="list-style-type: none"> <li>○ 1 x Built-in Thermometer</li> <li>○ 0-150°C</li> <li>○ Stainless steel</li> <li>○ 1 x Vinometer Kit</li> <li>○ Glass</li> <li>○ 0-25% accuracy</li> </ul> </li> </ul>		

01-001.015	Wine Distiller	
<ul style="list-style-type: none"> <li>○ 1 kg Ceramic Balls, 3 mm</li> <li>○ 1 x One-Way Exhaust Valve</li> <li>○ Transparent plastic</li> <li>○ Airlock</li> <li>○ At least 17 cm</li> <li>○ 1 x Circulating pump</li> <li>○ 1 x Silicone Hose, at least 1 meter</li> <li>○ 2 x Gauze Bags</li> <li>○ 1 x Stainless steamer</li> <li>○ 2 pcs Refractometer <ul style="list-style-type: none"> <li>■ 0-90% brix</li> <li>■ Accuracy: <math>\pm 0.5\%</math></li> <li>■ Aluminum</li> <li>■ Includes 1 set of screwdriver, pipette and cleaning cloth</li> </ul> </li> <li>○ 4 pcs Refractometer <ul style="list-style-type: none"> <li>■ 0-20% brix</li> <li>■ Accuracy: <math>\pm 0.2\%</math></li> <li>■ Aluminum</li> <li>■ Includes 1 set of screwdriver, pipette and cleaning cloth</li> </ul> </li> <li>○ 2 pcs Hydrometer <ul style="list-style-type: none"> <li>■ Triple scale</li> <li>■ Specific Gravity: 0.99 - 1.17</li> <li>■ Potential Alcohol By Volume: 0%-20%</li> <li>■ Brix/Balling: 0-35</li> <li>■ Material: Plastic</li> </ul> </li> <li>○ 2 pcs Salinity Meter <ul style="list-style-type: none"> <li>■ Pen-type</li> <li>■ ABS material</li> <li>■ LCD display with backlight</li> <li>■ Measuring Range: 0.00ppt-9.99ppt, 10.0 ppt-50 ppt</li> <li>■ Resolution: 0.01ppt, 0.1ppt</li> <li>■ Accuracy: <math>\pm 3\%F.S \pm 1</math> digit</li> <li>■ Power Supply: 4 * 1.5V LR44 Button Cell Battery</li> </ul> </li> <li>○ 10 pcs PH Meter <ul style="list-style-type: none"> <li>■ Pocket Size</li> <li>■ Digital LCD</li> <li>■ Material: ABS</li> <li>■ Accuracy: <math>\pm 0.1</math> pH</li> <li>■ Measurement Range: 0-</li> </ul> </li> </ul>		

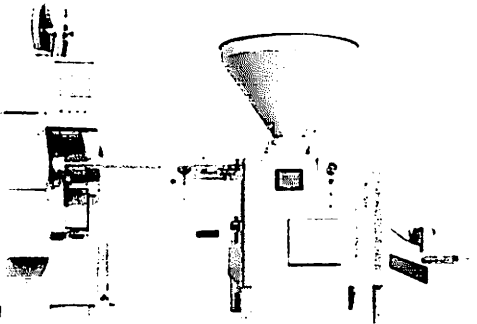
01-001.015	Wine Distiller	
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>14.0 pH</li> <li>■ Battery: 2×1.5V</li> </ul> </li> <li>○ 4 pcs Probe Thermometer           <ul style="list-style-type: none"> <li>■ Wireless thermometer</li> <li>■ Range: up to 100 ft</li> <li>■ Probe: 6.5 inches</li> <li>■ Cable length: 1 meter</li> <li>■ 5-8 preset temperatures</li> <li>■ LCD display - backlit screen</li> <li>■ Stainless steel</li> <li>■ 4x AAA batteries</li> </ul> </li> <li>○ 2 pcs Salinometer with cylinder           <ul style="list-style-type: none"> <li>■ 0-100 x 1% ±2</li> <li>■ 15.6°C</li> <li>■ 245 mm</li> <li>■ Glass</li> </ul> </li> <li>○ With English Manual</li> <li>○ Carrying Case</li> <li>○ ABS Plastic</li> <li>○ Waterproof</li> <li>○ Trolley type</li> <li>○ With foam divider</li> <li>○ With key lock/padlock</li> </ul>		

01-001.016	Commercial Reverse Osmosis Drinking Water Purification System Plant	
<ul style="list-style-type: none"> <li>● Material: Stainless steel</li> <li>● Productivity: 300L/Hour</li> <li>● Style: Vertical</li> <li>● Over-all Dimension: Should not be more than (W) 2 x (H) 3 m</li> <li>● Power: 2.7kW, 220V, 60 Hz</li> </ul> <p><b>Parts:</b></p> <ol style="list-style-type: none"> <li>1. Raw water tank (1) <ul style="list-style-type: none"> <li>- with built-in water ball valve and liquid level controller</li> <li>- 1000-3000L capacity</li> </ul> </li> <li>2. Raw water pump (1) <ul style="list-style-type: none"> <li>- PLC controlled</li> <li>- Lift: 28m</li> <li>- Power: 0.55kW</li> </ul> </li> <li>3. Sand filter (1) <ul style="list-style-type: none"> <li>- Max. water flow: 3000L</li> </ul> </li> <li>4. Carbon filter (1) <ul style="list-style-type: none"> <li>- Max. water flow: 3000L</li> </ul> </li> <li>5. Security filter (1)</li> <li>6. Water softener (1)</li> <li>7. High pressure pump (1) <ul style="list-style-type: none"> <li>- Lift: 58m</li> <li>- Max Pressure:</li> <li>- Power: 2.2kW</li> </ul> </li> <li>8. RO membrane (2) <ul style="list-style-type: none"> <li>- Energy Saving Polyamide</li> <li>- Pressure: 0.8 - 1 mpa</li> </ul> </li> <li>9. UV sterilizer <ul style="list-style-type: none"> <li>- 253.7nm UV light peak wavelength</li> </ul> </li> <li>10. Ozone system</li> </ol> <p><b>Accessories:</b></p> <ol style="list-style-type: none"> <li>1. 2 x RO membrane housing</li> <li>2. 2 x flow meter, electromagnetic</li> <li>3. 1 x solenoid valve <ul style="list-style-type: none"> <li>- 2/2 way open</li> <li>- 0.5-15 bar</li> <li>- IP65 with connector (included)</li> <li>- 24vDC</li> </ul> </li> </ol>		

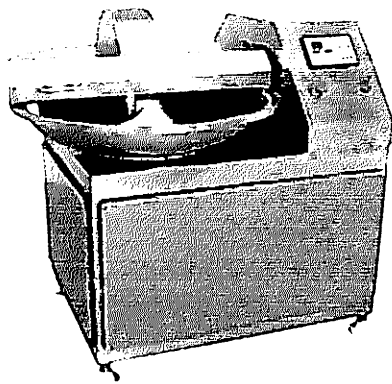
01-001.017	Automatic Juicer	
<ul style="list-style-type: none"> <li>● Masticating Slow Juice Extractor</li> <li>● Capacity: 500ml</li> <li>● Speed: 37 RPM or higher</li> <li>● Feed Aperture: 85mm</li> <li>● Continuous Working Time: ≤20 min.</li> <li>● Filter: <ul style="list-style-type: none"> <li>● - 1x coarse mesh</li> <li>● - 1x fine mesh</li> <li>● - Polyetherimide and stainless steel</li> </ul> </li> <li>● BPA free</li> <li>● Power: 250W, 220V 60Hz</li> </ul>		

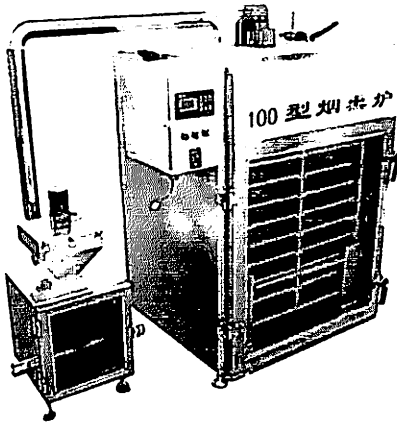
01-001.018	Food Spinner	
<ul style="list-style-type: none"> <li>● 3.5 L basin capacity</li> <li>● Stainless steel basin with anti-slip design at the bottom</li> <li>● PP filter basket</li> <li>● Lever handle</li> <li>● Stop button</li> </ul>		

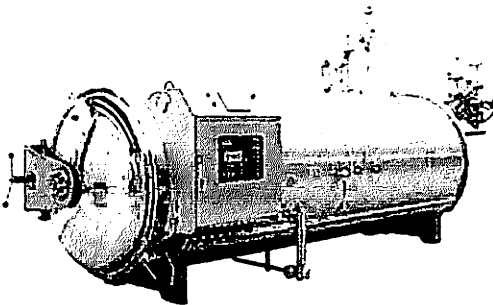
● **Fish and Meat Processing Equipment**

01-001.019	Automatic Sausage Maker	
<ul style="list-style-type: none"> <li>● 10 Liter load or higher</li> <li>● With meat grinder, mixer, sausage stuffing and sausage tying feature</li> <li>● With 4 nozzle sizes, 16 mm, 22mm, 32mm and 38mm</li> <li>● 50 ties per minute or higher</li> <li>● Food grade stainless</li> <li>● PLC controlled with touch screen controller</li> <li>● 220VAC</li> </ul>		

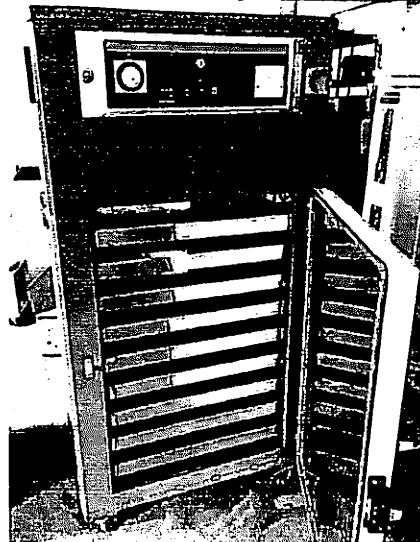


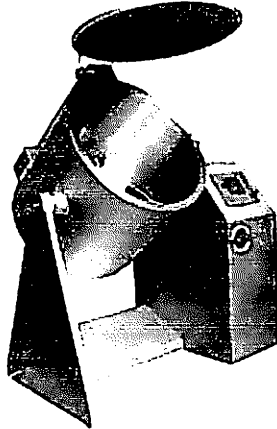
01-001.020	Silent cutter/Bowl cutter	
<ul style="list-style-type: none"> <li>● Bowl Capacity: 10L or higher</li> <li>● Stainless steel</li> <li>● Touch control</li> <li>● Records output mixture and kilogram, date and time of process (i.e beef, 3kg, July 27, 2023, 2:30pm)</li> </ul>		

01-001.021	Smokehouse	
<ul style="list-style-type: none"> <li>● Capacity: 50kg/batch</li> <li>● PLC control, with touch screen controller and PID temperature management</li> <li>● Stainless steel</li> <li>● Automatic temperature control</li> <li>● Insulated layer</li> <li>● Precision bending casting</li> <li>● Double layer stainless steel radiator</li> <li>● Up and down smoke</li> <li>● Mobile wheel</li> <li>● With smoke tray</li> <li>● Heat source: Electric or LPG, if LPGtype, include LPG tank (45 KG)</li> </ul>		

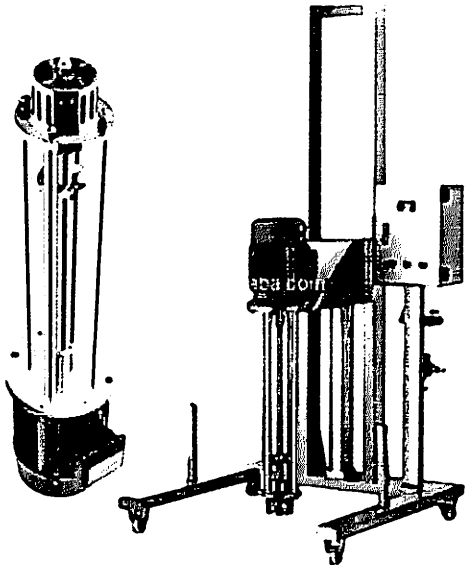
01-001.022	Water Spray Retort Machine	
<ul style="list-style-type: none"> <li>● Autoclave</li> <li>● Horizontal</li> <li>● Steam Consumption: 180kg</li> <li>● Design temperature: 147°C</li> <li>● Design Pressure: 0.35 Mpa</li> <li>● Nozzle angle: 130°</li> <li>● No. of baskets: 4</li> <li>● Material: Stainless Steel</li> <li>● Retort thickness: 5mm</li> <li>● Spray mode: Waterside spray and cascade spray</li> <li>● Control: PLC, with touch screen control and PID temperature management</li> <li>● Heat source: LPG</li> <li>● Overall Dimension: Should not be more than (W) 2 x (H) 3 m</li> </ul>		

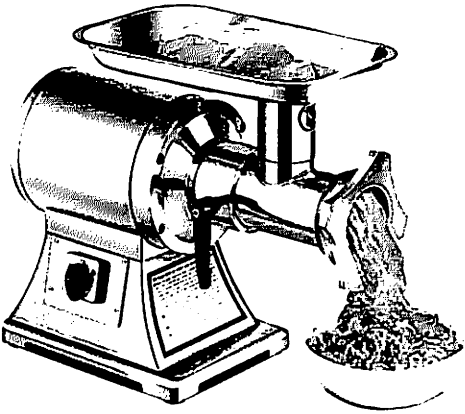


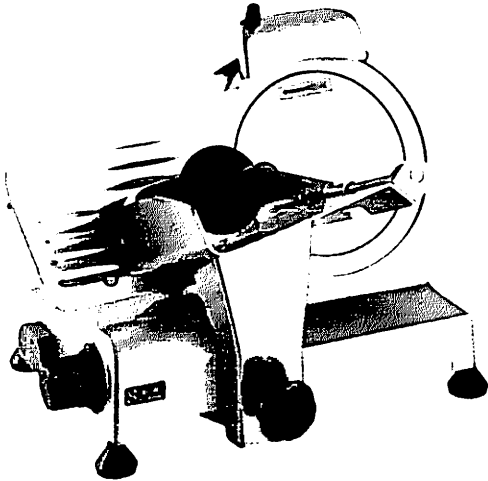
01-001.023	Cabinet Dryer	
<ul style="list-style-type: none"> <li>● 16 layers</li> <li>● Drying capacity: 10-15kg</li> <li>● Temperature: 35-90°C</li> <li>● Power: 1000W, 220V/ 60Hz</li> <li>● Stainless steel</li> <li>● Double insulation body</li> <li>● Tempered visible glass door</li> <li>● Touch control panel</li> <li>● Magnet induction door</li> <li>● With trays, stainless steel mesh</li> </ul>		

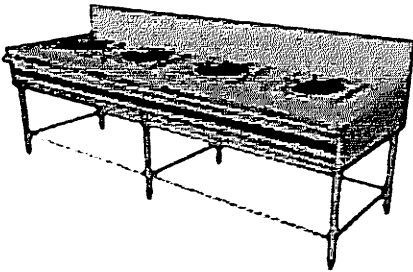
01-001.024	Vacuum Tumbler	
<ul style="list-style-type: none"> <li>● Type: electric / floor type</li> <li>● Capacity: 25 kg/ load</li> <li>● Stainless Steel</li> <li>● Dimension: 830 x 530x 980 mm</li> <li>● Power: 1kW/ 220V/ 60Hz</li> <li>● With 4 rubber feet</li> </ul>		

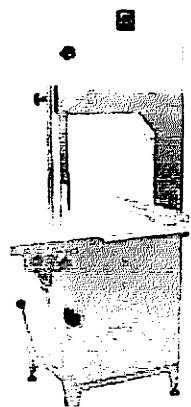
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01-001.025	Movable Pneumatic Lifting Homogenizer	
<ul style="list-style-type: none"> <li>● Pneumatic lift control</li> <li>● Max. Load Capacity: 100L</li> <li>● Rotation speed: 0-3000rpm</li> <li>● Lifting height: 900mm</li> <li>● Motor power: 2.2-4kW, 220V/ 60 Hz</li> <li>● Stainless Steel</li> <li>● With castor wheels</li> <li>● Dimension: 100x100x210 cm</li> <li>● Includes: <ul style="list-style-type: none"> <li>○ Mixing tank 100L</li> <li>○ Air compressor</li> </ul> </li> </ul>		

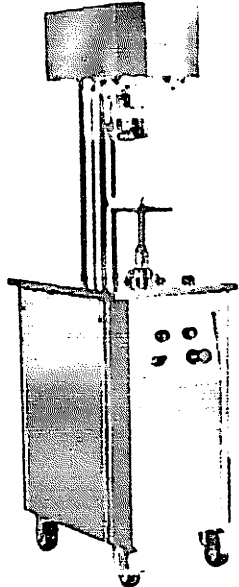
01-001.026	Meat Grinder	
<ul style="list-style-type: none"> <li>● Stainless steel</li> <li>● Electric</li> <li>● Production capacity: 150-180kg/h</li> <li>● Blade Thickness: 3 mm</li> <li>● Plate Hole: 3mm, 6 mm and 8 mm</li> <li>● 1100W, 220V, 60Hz single phase</li> <li>● With pan: 320 x 210 x 2.5 mm</li> <li>● Non-skid feet</li> </ul>		

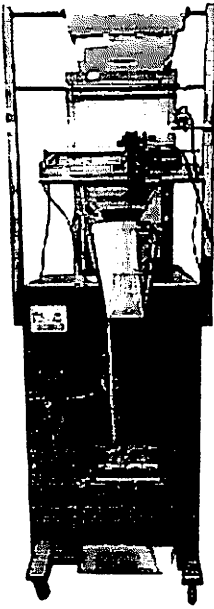
01-001.027	Meat slicer	
<ul style="list-style-type: none"> <li>● Semi-Automatic</li> <li>● Stainless steel blade</li> <li>● Slice Thickness: 0.2 - 12mm</li> <li>● Blade size: 250 mm</li> <li>● Power: 240W, 220V, 60 Hz, 1 Ph</li> </ul>		

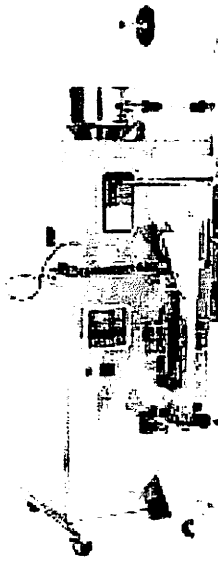
01-001.028	Heavy duty gas stove	
<ul style="list-style-type: none"> <li>● Open top</li> <li>● High pressure 4 burners with air shutter, 3/4"</li> <li>● 18 ga. stainless steel top plate, oil drain, nosing, backsplash, stiffener</li> <li>● 20 ga. stainless steel apron body, back panel, control panel</li> <li>● 20 ga. stainless steel drip pan</li> <li>● Gas ball valve 1/2" diameter embedded on a 1/2" diameter G.I. gas manifold pipeline with fittings</li> <li>● 38 mm diameter stainless steel tubular leg support on adjustable bullet type feet</li> <li>● MS roundplate gratings</li> <li>● Cross-bracing</li> <li>● Dimension: 2415mm L x 762mm W x 762mm H + 254mm (backsplash length)</li> <li>●</li> <li>● Includes LPG Tank (4 pcs) <ul style="list-style-type: none"> <li>● - Refill</li> <li>● - 50 kg</li> <li>● - Cylinder</li> </ul> </li> </ul>		

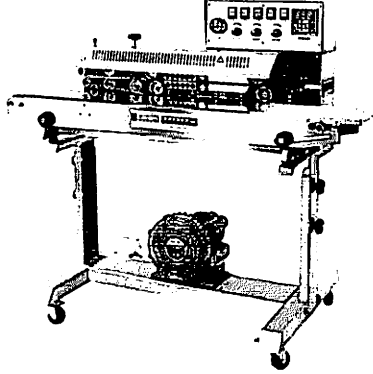
01-001.029	Band Saw	
<ul style="list-style-type: none"> <li>● Vertical</li> <li>● Max cutting capacity: 165mm</li> <li>● Blade: Replaceable for Wood or Metal</li> <li>● Throat: 305mm</li> <li>● Blade speed: min. 1,640 ft/min</li> <li>● Supply: 900 W, 220V, 60Hz</li> </ul>		

## Packaging

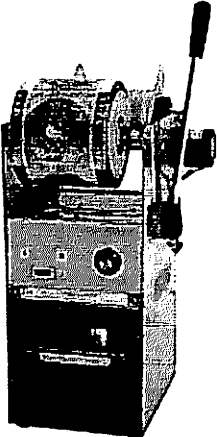
01-001.030	Can Sealing Machine, 2 seaming roller	
<ul style="list-style-type: none"> <li>● Semi-automatic</li> <li>● Stainless steel</li> <li>● Number of sealing head: 1</li> <li>● Number of seaming roller: 2</li> <li>● Sealing height: <ul style="list-style-type: none"> <li>● - min. 30mm</li> <li>● - max. 220mm</li> </ul> </li> <li>● Sealing can diameter: <ul style="list-style-type: none"> <li>● - min. 35mm</li> <li>● - max. 130mm</li> </ul> </li> <li>● Sealing Capacity: at least 20 cans/min</li> <li>● Dimension: L550 x W500 x H1450 mm</li> <li>● Power: 0.75kW, 220V, 60Hz, single phase</li> </ul>		

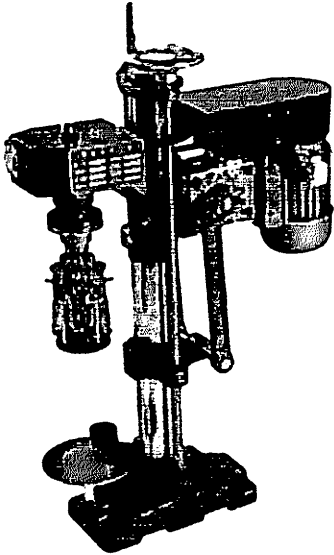
01-001.031	Automatic Snack Packing Machine/Bag Packing Machine Tray Dryer	
<ul style="list-style-type: none"> <li>● Three-side and back seal, flat and sawtooth sealing</li> <li>● Roll film width: max. 320mm or higher</li> <li>● Adjustable Bag Length: min. 50 - max. 300 mm</li> <li>● Adjustable Bag Width: min. 50 - max. 200 mm</li> <li>● Filling range: min. 5g, max. 1000g or higher</li> <li>● Production: at least 20 bags/min</li> <li>● Packaging material: paper, plastic, film, cotton paper, aluminum foil</li> <li>● Puff design/ with nitrogen filling</li> <li>● Vertical packaging</li> <li>● Stainless steel</li> <li>● PLC system</li> <li>● Roller wheels</li> <li>● Device: Date printer and cursor locator</li> <li>● Overall Dimension: Should not be more than (W) 2 x (H) 3 m</li> <li>● Power: 2.2 kW, 220 V, 60 Hz</li> </ul>		

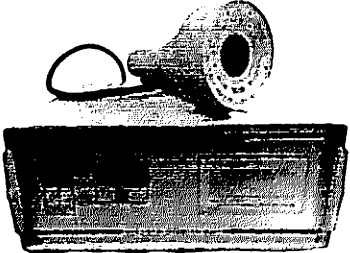
01-001.032	Multi-Function Automatic Vertical Sachet Packaging Machine	
<ul style="list-style-type: none"> <li>● Three-side and back seal, fiat and sawtooth</li> <li>● Roll film width: max. 220mm or higher</li> <li>● Adjustable Bag Length: min. 10 - max.160 mm</li> <li>● Adjustable Bag Width: min. 30 - max.100 mm</li> <li>● Filling range: min. 10g, max. 500g or higher</li> <li>● Production: at least 20 bags/min</li> <li>● Packaging material: plastic film, laminated film, aluminum foil, filter paper, non-woven</li> <li>● Stainless steel</li> <li>● 1 head rotary measuring dispenser</li> <li>● Microcomputer controller</li> <li>● Roller wheels</li> <li>● Device: Photoelectric eye and Date Printer</li> <li>● Overall Dimension: Should not be more than (W) 2 x (H) 3 m</li> <li>● Power: 500W, 220V, 60HZ</li> </ul>		

01-001.033	Band Sealer With Nitrogen Air Injection	
<ul style="list-style-type: none"> <li>● Continuous sealing</li> <li>● With nitrogen gas filling</li> <li>● Stainless steel</li> <li>● Vertical</li> <li>● Film packaging</li> <li>● Temperature Control: Electronic Thermostat Control</li> <li>● Printing Method: Steel Seal</li> <li>● Sealing speed: 0-12/min</li> <li>● Sealing thickness 0.02-0.8mm</li> <li>● Sealing length: 0-limitless</li> <li>● Sealing width: 0-12mm (adjustable)</li> <li>● Power: 875W, 220 V, 60 Hz, 1 Ph</li> <li>● Adjustable conveyor belt</li> <li>● With 4 wheels, 2 lockable</li> </ul>		

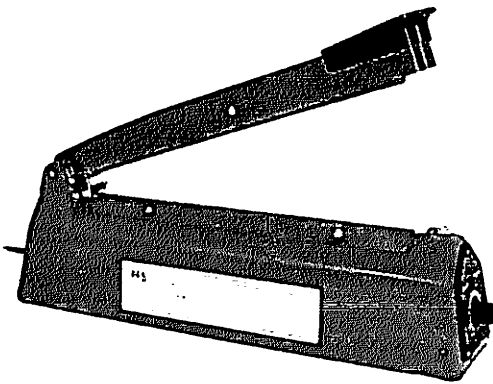


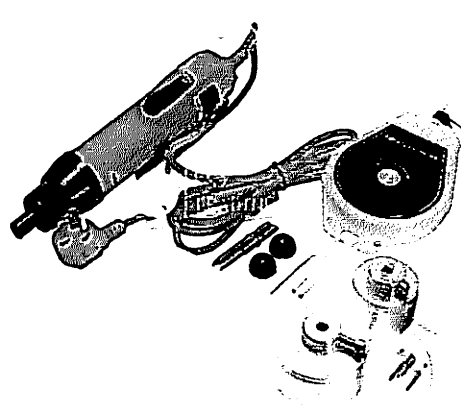
01-001.034	Cup Sealer	
<ul style="list-style-type: none"> <li>● Cup: - paper and plastic - 17 cm max. height - 95 mm diameter Output: 300 cups/hour Dimension: 270 x 270 x 650 mm Stainless steel Double-needle positioning With handle lever Power: 270W/ 240V/ 60Hz</li> </ul>		


01-001.035	Semi-Automatic Ropp Screw Capping Machine	
<ul style="list-style-type: none"> <li>● Bottle height: 60-320mm</li> <li>● Bottle mouth diameter: 16-50mm</li> <li>● Capacity: 1200 bottles / hour</li> <li>● Adjustable bracket</li> <li>● Power: 370W/ 240V/ 60Hz</li> <li>● Dimension: 350x750x1000mm</li> </ul>		

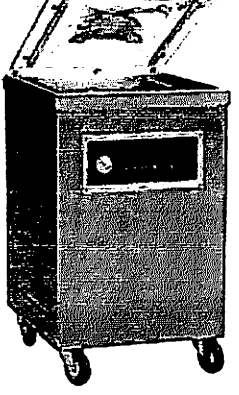
01-001.036	Handheld Electromagnetic Induction Sealer	
<ul style="list-style-type: none"> <li>● Hand type induction sealing</li> <li>● • ABS Material</li> <li>● • 220V, 50-60Hz, 1Ph</li> <li>● • 1200W</li> <li>● • 15-50mm sealing diameter</li> <li>● • Capacity: 30pcs/min</li> </ul>		

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01-001.037	Impulse Sealer	
<ul style="list-style-type: none"> <li>● 5 units of 300mm/ 12 inches hand sealer <ul style="list-style-type: none"> <li>○ Sealing time: 0-4 seconds</li> <li>○ Sealing Thickness: 0.4 mm</li> <li>○ Sealing Width: 2mm - 3mm</li> <li>○ Impulse Power: 430W or higher/ 220v/ 60Hz</li> </ul> </li>   <li>● 2 units of 200mm/ 8 inches hand sealer <ul style="list-style-type: none"> <li>○ Sealing time: 0-4 seconds</li> <li>○ Sealing Thickness: 0.4 mm</li> <li>○ Sealing Width: 1.5mm - 2mm</li> <li>○ Impulse Power: 310W/ 220V/ 60Hz</li> </ul> </li> </ul>		

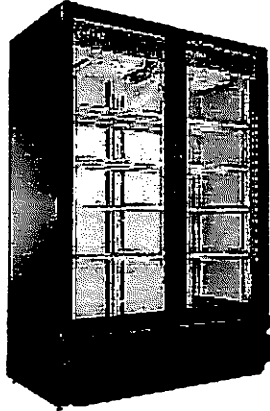
01-001.038	Bottle Cap Sealer	
<ul style="list-style-type: none"> <li>● Handheld electric cap sealer</li> <li>● Capping Diameter: 10-50mm</li> <li>● Material: Plastic + Metal</li> <li>● Bottle Height: Unlimited</li> <li>● Capping Speed: 30 - 90 bottles/minute</li> <li>● Length: 230mm</li> <li>● Cable Length: 178cm</li> <li>● Power: 80W, AC 220V, 60HZ</li> <li>● Package included: <ul style="list-style-type: none"> <li>○ 1x Bottle Capping Machine</li> <li>○ 2x Aluminum Cap Covers</li> <li>○ 6x Silicone Pads (10-20 mm, 20-30 mm, 30-40 mm, 40-50 mm for ordinary caps; 28-32 mm, 38mm specialized for caps with anti-theft ring)</li> <li>○ 1x Spring Balancer, 1.5-3.0 kg, standard type</li> <li>○ 1x M5 Allen Wrench, long arm, steel alloy</li> <li>○ 1x Adapter</li> <li>○ 1x English Manual</li> </ul> </li> </ul>		

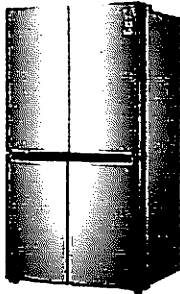
01-001.039	Vacuum Packing Machine, Table Top	
<ul style="list-style-type: none"> <li>● Table top</li> <li>● Double Sealing Bar</li> <li>● Stainless steel</li> <li>● Semi-automatic</li> <li>● Concave chamber</li> <li>● Chamber Size: 440*420*75 mm</li> <li>● Sealing: 400 x 10 mm</li> <li>● Speed: 1-4 times/min</li> <li>● Power: 900W, 220 V, 60 Hz single phase</li> </ul>		

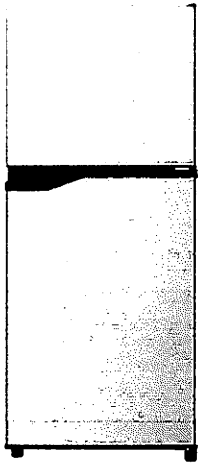
01-001.040	Vacuum Packing Machine, Floor Model	
<ul style="list-style-type: none"> <li>● Floor Model</li> <li>● Double Sealing Bar</li> <li>● Stainless steel</li> <li>● Semi-automatic</li> <li>● Concave chamber</li> <li>● Chamber Size: 440*420*75mm</li> <li>● Sealing: 400 x 10 mm</li> <li>● Power: 900W, 220V, 60 Hz, 1 Ph</li> <li>● With 4 wheels, 2 lockable</li> </ul>		



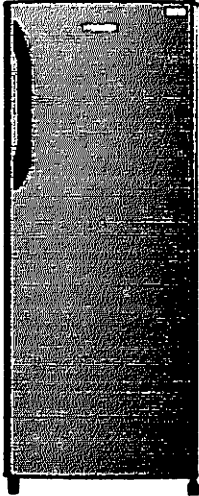
## Refrigerator and Display Cabinets

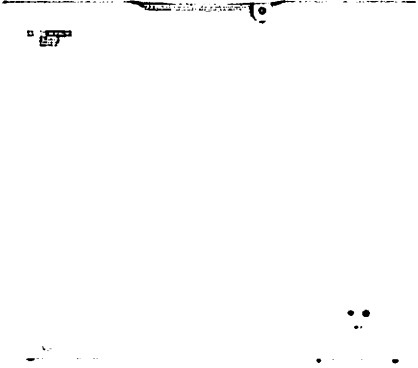
01-001.041	Merchandise Chiller	
<ul style="list-style-type: none"> <li>● 2 Glass Door, swing type</li> <li>● Upright</li> <li>● Capacity: 500L</li> <li>● 10 adjustable wire shelves</li> <li>● Temperature: 0-10°C</li> <li>● Rated Voltage: 220V</li> <li>● Rated Frequency: 60Hz</li> <li>● Wattage: 250-300W</li> <li>● Built-in lock</li> <li>● With wheels</li> </ul>		

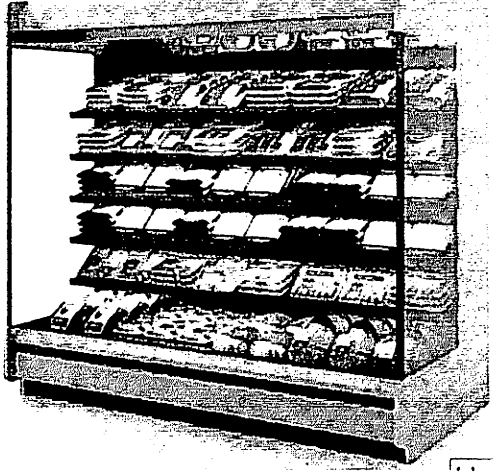
01-001.042	Four-Door Refrigerator Freezer	
<ul style="list-style-type: none"> <li>● 700L capacity</li> <li>● Upright</li> <li>● Direct cooling</li> <li>● Dual temperature: top freezer, bottom refrigerator</li> <li>● Temperature adjustment range: -6~-12°C/0~10°C</li> <li>● Stainless steel</li> <li>● 1 wire shelf top and bottom</li> <li>● No compartments/pans</li> <li>● Roller wheels</li> <li>● 500 W, 220 V, 60 Hz, 1 Ph</li> </ul>		

01-001.043	Refrigerator	
<ul style="list-style-type: none"> <li>● Top Freezer Direct Cool Inverter</li> <li>● 7.6 cu ft</li> <li>● 2-door</li> <li>● Manual defrost</li> <li>● Total Storage Volume: 200 L</li> <li>● No. of Shelves per door: 2</li> <li>● LED Room Light</li> <li>● Energy Efficiency Rate: 290-316</li> <li>● Power Requirements: 220V/ 60Hz/ 1 Ph</li> </ul>		

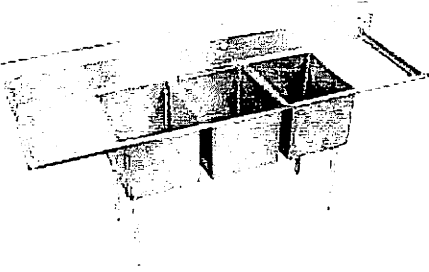


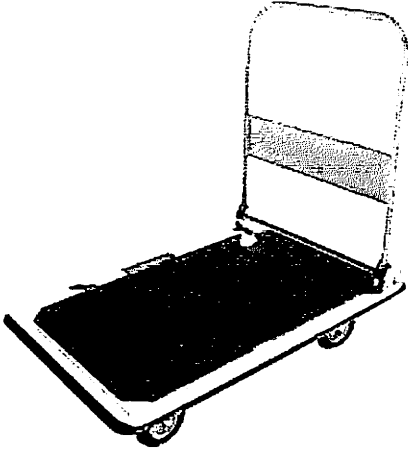
01-001.044	Upright Freezer	
<ul style="list-style-type: none"> <li>● 8.0 cu ft</li> <li>● Inverter</li> <li>● Single door</li> <li>● 6-7 shelves + bottom pan</li> <li>● Manual defrosting</li> <li>● 220 V, 60Hz, 1 Ph</li> <li>● With ice scraper</li> <li>● Adjustable feet</li> </ul>		

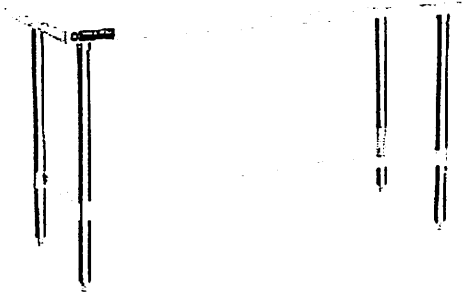
01-001.045	Chest Freezer	
<ul style="list-style-type: none"> <li>● 8.0 cu ft</li> <li>● Inverter</li> <li>● Single door</li> <li>● 6-7 shelves + bottom pan</li> <li>● Manual defrosting</li> <li>● 220 V, 60Hz, 1 Ph</li> <li>● With ice scraper</li> <li>● Adjustable feet</li> </ul>		

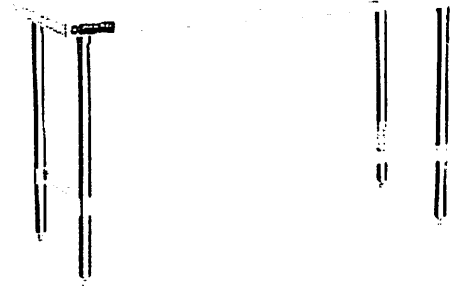
01-001.046	Multideck Display Fridge	
<ul style="list-style-type: none"> <li>● Net volume: 500L</li> <li>● Temperature: -1 to +7 °C</li> <li>● Shelves: 4 + base</li> <li>● Power supply: 220V, 2x-13amp plugs</li> <li>● Dimension: (W)1800 x (D)600 x (H)1950 mm</li> <li>●</li> <li>● Features:</li> <li>● Open-fronted</li> <li>● Low base</li> <li>● Top mounted LED light</li> <li>● Digital temperature control display</li> <li>● Glass end panels</li> <li>● Integral night blind</li> <li>● Auto electrical defrost</li> <li>● Clear acrylic shelf edge risers</li> <li>● Stainless steel drip tray</li> <li>● Steel finish</li> <li>● 4 adjustable feet</li> </ul>		

## Others

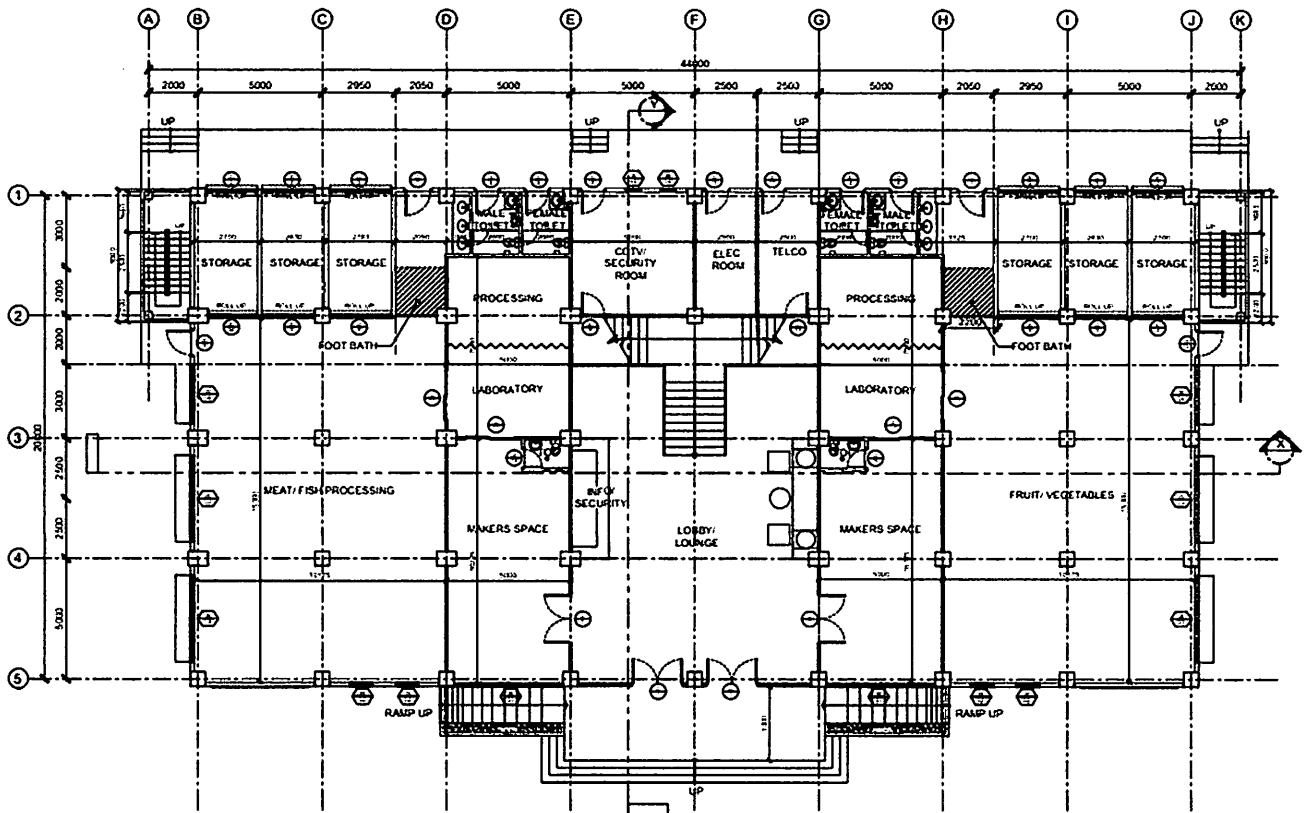
01-001.047	Wash Sink	
<ul style="list-style-type: none"> <li>● 3 compartment sink, square</li> <li>● Stainless steel</li> <li>● 1.0mm thickness</li> <li>● Free standing</li> <li>● Size: (L)1400*(W)600*(H)850*(D)250 mm</li> <li>● Stamping washbasin</li> <li>● Stamping countertops</li> <li>● Washbasin with hoarding</li> <li>● Bullet feet, can be adjusted by 20-30 mm</li> </ul>		

01-001.048	Folding Trolley	
<ul style="list-style-type: none"> <li>● Foldable flatbed truck</li> <li>● 150 kg</li> <li>● Aluminum Alloy armrest</li> <li>● PP panel</li> <li>● 4 swivel wheels, 2 lockable</li> <li>● Dimension: (L)730 x (W)470 x (H)810 mm</li> </ul>		

01-001.049	Preparation Table	
<ul style="list-style-type: none"> <li>● Stainless steel</li> <li>● With non-slip rubber foot</li> <li>● 2 layers</li> <li>● Dimension: D 600 x W 2400 x H 900 mm</li> <li>● Thickness: at least 1.0 mm for tabletop, at least 3.0 mm for legs</li> </ul>		

01-001.050	Preparation Table, 900 x 2400 mm	
<ul style="list-style-type: none"> <li>● Stainless steel</li> <li>● With non-slip rubber foot</li> <li>● 2 layers</li> <li>● Dimension: D 900 x W 2400 x H 900 mm</li> <li>● Thickness: 1.0 mm</li> </ul>		

- Workshop Layout for reference



A
 TESDA INNOVATION CENTER - ISAT  
**GROUND FLOOR PLAN**  
 SCALE 1:200MTS

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

Name of Company/Bidder	Signature over Printed Name of Authorized Representative	Date
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## TECHNICAL SPECIFICATION

<b>Name of The Equipment</b>	Food science
<b>Item Code</b>	01-002
<b>Technology Area(s)</b>	Food Processing Laboratory

### A. Technical Design

### B. Equipment List

Item Code	Item Name	Quantity	Unit Measure
01-002a	Laboratory Scale Cabinet Drier or Forced Draft Oven	1	unit
01-002b	Constant-Temperature Drying Oven (Natural Convection Oven)	1	unit
01-002c	Magnetic Stirrer With Hot Plate	4	set
01-002d	Water Bath Shaker	2	unit
01-002e	Sieve Shaker	1	unit
01-002f	Compound Microscope	5	unit
01-002g	Soxhlet Set Up	1	set
01-002h	Titration Set Up	3	set
01-002i	Analytical Balance	2	unit
01-002j	Desiccator	6	set
01-002k	Infrared Moisture Meter	2	unit
01-002l	Water Activity Meter	2	unit
01-002m	Bostwick Consistometer	5	pc
01-002n	Set of Pycnometer	1	set
01-002o	Spectrophotometer	1	unit
01-002p	Vacuum Gauge	2	pc

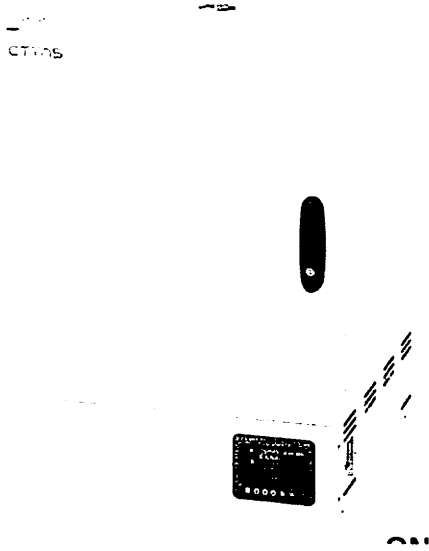


Item Code	Item Name	Quantity	Unit Measure
01-002q	Set of Weighing Scale	1	set
01-002r	Thermal Validation System	1	set

### C. Equipment Parameters

#### 1. Food Science Laboratory Equipment

01-002a	Laboratory Scale Cabinet Drier or Forced Draft Oven	
<p>Brief description: Works by forcing warm air around the oven chamber with the assistance of a blower fan. Hot air will travel through a duct system creating a uniform distribution of warm air within the chamber. Used for pre heating, drying, sterilizing, baking, aging, etc.</p> <ul style="list-style-type: none"> <li>• 40L</li> <li>• Temperature Range: RT+5 – 250°C</li> <li>• Temperature Accuracy: 0.1°C</li> <li>• Timer Range: 0-99 h or 0-9999 min</li> <li>• Forced Convection</li> <li>• swing door with tempered glass window</li> <li>• 2 chamber, stainless steel</li> <li>• Powder coated body</li> <li>• Double digital display</li> <li>• With exit fans</li> <li>• Power: 770W/ 220 V/ 60 Hz/ 1 PhA</li> </ul>		

01-002b	Constant-Temperature Drying Oven (Natural Convection Oven)	
<p><b>Brief description:</b> Used for heating and drying samples. Commonly used in research and development, material testing, and quality control. Provides uniform temperature throughout the chamber necessary for annealing, drying, sterilizing, and other industrial lab functions.</p> <ul style="list-style-type: none"> <li>• Steel type without window</li> <li>• Digital, LCD display</li> <li>• Right pivot door</li> <li>• Inner dimensions (mm): 450 x 447 x 450</li> <li>• Temperature control range: R.T. + 20 to 300 °C</li> <li>• Temperature control method: 3 stages PID control, SSR output</li> <li>• Communication function: <ul style="list-style-type: none"> <li>- Bluetooth 4.2</li> <li>- Distance: 10 m</li> </ul> </li> <li>• Recording method: full stop (Stop recording in full memory)</li> <li>• Recording format: CSV format</li> <li>• Compatible OS: iOS 11.4 and later</li> <li>• Heater capacity: 1000-1500W</li> <li>• Bottom heating</li> <li>• Temperature sensor: K class thermocouple x 2 pieces (1 piece for temperature control and overheating prevention)</li> <li>• Inner capacity: 90-95L</li> <li>• pitch TANA/mm number of step: 35 pitch/10 Dan</li> <li>• Air outlet: <math>\phi</math>32mm x 1 piece</li> <li>• Power supply: AC100V 50/60Hz, Cord length 2.4 m</li> <li>• Rated current: 14.5 A</li> <li>• shelf board, load tolerance: 5kg</li> <li>• Accessories: <ul style="list-style-type: none"> <li>- shelf board x 2 pieces</li> <li>- shelf board rail x 2 sets, stainless steel</li> </ul> </li> </ul>		

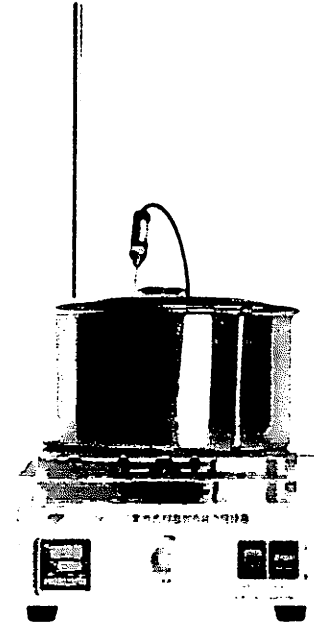


01-002c

Magnetic Stirrer With Hot Plate

**Brief description:** Magnetic stirrer mixes ingredients by attracting like charges and repulsing dissimilar ones. It uses a rotating magnetic field to stir a non-magnetic liquid in a container. The rotating field is created by a magnet mounted on the stirrer underneath the container. As the magnet rotates, it creates a rotating magnetic field that extends into the liquid. The speed of the stirrer can be changed, and it is useful for stirring liquids with various viscosities. It has a temperature control system that can heat and alter the sample's temperature as needed, ensuring that the combined liquid fulfills the research or experiment demands.

- Digital, LED display
- 10L stirring capacity
- 0-3000r/min
- Hot Plate: square 230 x 230 mm
- Temperature control: ~380°C
- Stainless steel
- Stirring Power: 40W, DC14V, 60Hz
- With a non-slip foot pad
- Accessories:
  - Barrel
  - Removable holder
  - Thermocouple probe
  - Container fixed clamp
  - 5x Magnetic bar
  - Inner thermocouple
  - Adjustable clamp

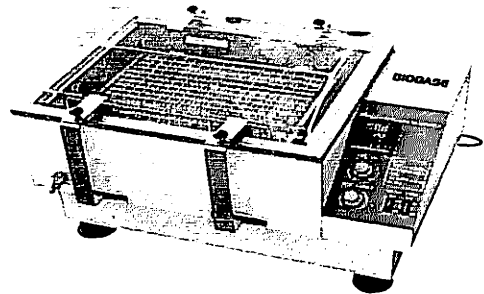


01-002d

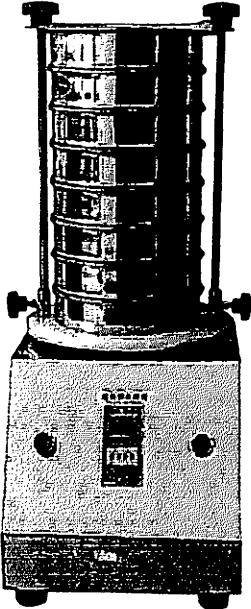
Water Bath Shaker

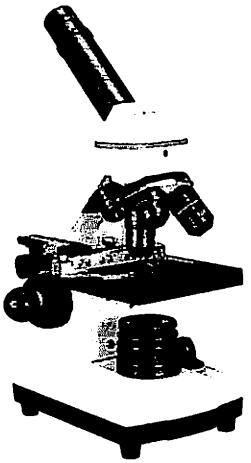
**Brief description:** Container filled with heated water. Steadily shake and mix samples while maintaining a constant temperature for incubating samples in a laboratory. It is used for applications such as culturing cells, hybridization, and molecular biology assays. A water bath generally consists of a heating unit, a stainless steel chamber that holds the water and samples, and a control interface. Employs a PID controller and SSR to modulate the current flow to the heating rod.

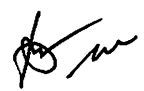
- Stainless steel
- Digital
- Capacity: 15L
- Temperature Range: RT+3~100°C
- Vibration Amplitude: 24mm
- Vibration Frequency: 50~220r/min
- Shaking Mode: Rotation, Oscillating back and forth
- Timing: 1~60min
- Power Supply: 1300W/ 220V, 60Hz
- External Size: 700 x 460 x 450 mm



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01-002e	Sieve Shaker	
<p><b>Brief description:</b> The shaker pairs a heavy-duty magnet and spring that work together to displace the device's sieve plate, creating the three-dimensional elliptical motion. This is possible as, during operation, the magnet is electrically charged and discharged several times, resulting in the spring compressing and decompressing rapidly.</p> <p>This creates ultrasonic vibrations that create its unique 3D motion. As the sieve stack is agitated, the particles are moved in a flat plain while jumping up and down simultaneously. It consists of a base, a cradle for holding sieves, and an electrical power unit.</p> <ul style="list-style-type: none"> <li>• Electromagnetic</li> <li>• Stainless steel</li> <li>• Sieve dimensions: (D)200 x (H)50 mm</li> <li>• Layers: 8</li> <li>• Mesh size: <ul style="list-style-type: none"> <li>- square hole</li> <li>- 4.75, 2.00, 0.841, 0.420, 0.210, 0.150, 0.089, 0.075 mm</li> </ul> </li> <li>• Vibrating frequency: 1440 n/min</li> <li>• Vibrating amplitude: 1-4 mm</li> <li>• Exciting force: 3 KN</li> <li>• Chassis level: ≤0.6 mm</li> <li>• Timing: 999s</li> <li>• Power supply: 0.12 kW/ 220 V/ 60 Hz</li> <li>• Outside dimension: 360×300×360 mm</li> </ul>		

01-002f	Compound Microscope	
<ul style="list-style-type: none"> <li>• Portable</li> <li>• Monocular</li> <li>• Magnification setting <ul style="list-style-type: none"> <li>- Eyepiece : 10X 20X</li> <li>- Objective : 4X 10X 40X</li> </ul> </li> <li>• Magnification range: 40X-1600X</li> <li>• Working Stage: 90mmX90mm Square/Moving Scale/Disc Filters</li> <li>• 45° incline, 360° rotatable</li> <li>• LED illumination</li> <li>• Mechanical Platform</li> <li>• 2x AA batteries</li> </ul>		

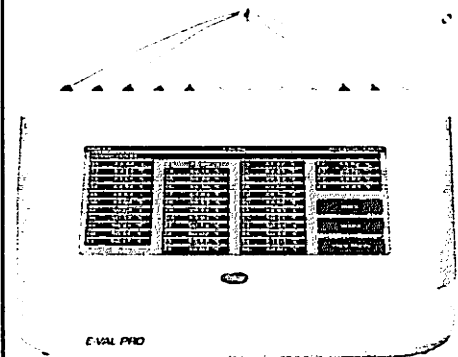


01-002r

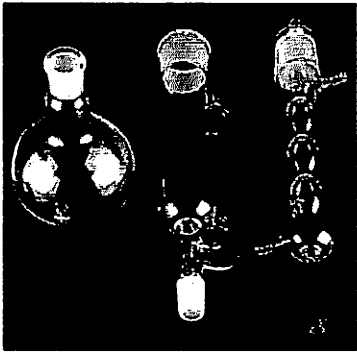
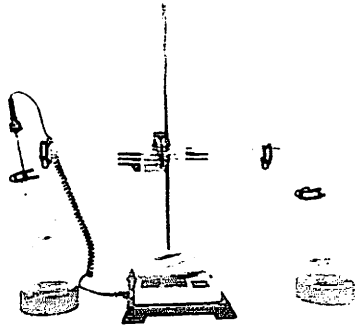
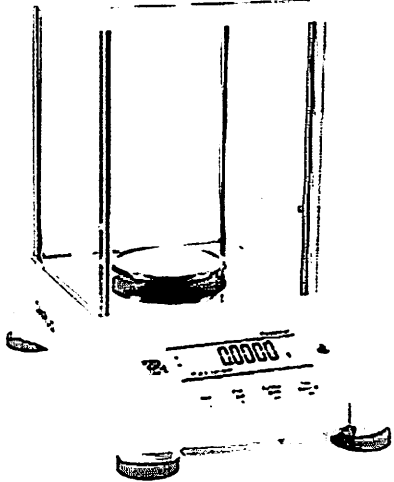
Thermal Validation System

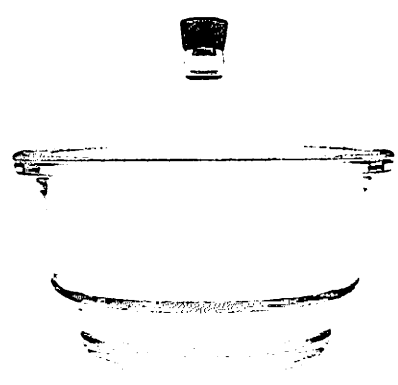
Brief description: Password protected module that can handle up to 40 thermocouples and the large internal memory is capable of holding up to 10 studies at a time. The wired thermocouple system has a built-in 8-hour battery and can be used as a stand-alone unit or be connected to a PC via LAN/USB.

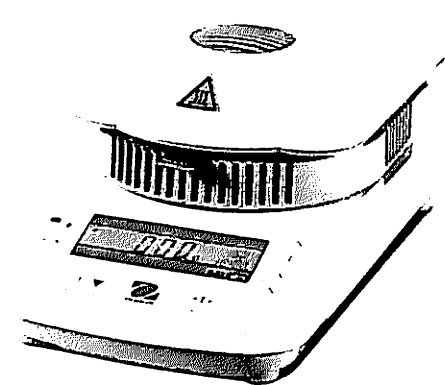
- Validation Unit (1 unit)
  - 8-inch color touch display, 0-40 channel, rechargeable battery
- Unit Accessories (1 set)
  - LAN and USB cable, power cable, carrying case
- Software (1 license)
  - Perpetual license for 2 computers on USB key, 21 CFR part 11 compliant, developed according to GMAP
- TC sensor array (1 unit)
  - 12 channel, with calibration
- SSA probe needle (12 pcs)
  - 2mm (D) x 50mm (L) , rounded point, 7m cable length
- PTFE probe (12 pcs)
  - $\varnothing 3$ , 2 mm x 7m cable, moist and heat resistant, up to +200 °C
- Calibration (24 pcs)
  - 3 points: 0, 121, 135°C
- Packing gland
  - for filled containers (12 pcs)
  - low profile cans, for probes 1.2 mm (12 pcs)
  - includes solid rubber packing (no holes), 1" (1 pc)
- Space bar (12 pcs/size)
  - 10 mm
  - 25 mm
- Cutting tool (1 pc)
  - for HUJ and CUJ
- Spanner (1 pc)
  - for HUJ and CUJ
- Rubber packing
  - 16 holes, 1"
  - 16 holes, 1", Hole diameter: 2mm, for PTFE cable
- Inclusion of 1 unit Laptop with suitable specifications

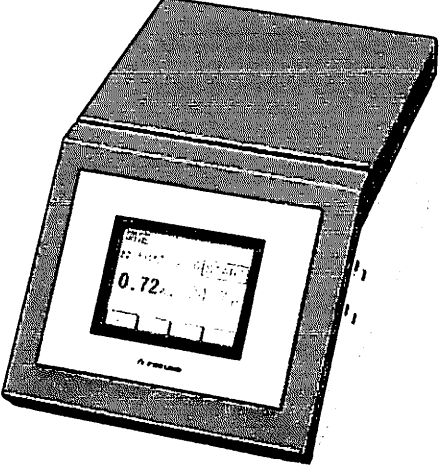



## 2. Food Science Laboratory Apparatus

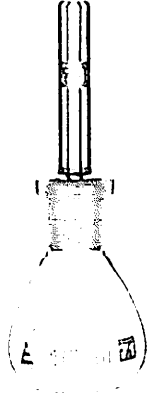
01-002g	Soxhlet Set Up	
<ul style="list-style-type: none"> <li>• 2 500ml flat bottom flask, 24/29 joints</li> <li>• 1 Soxhlet Extractor 50/42 joints</li> <li>• 1 Allihn Condenser 50/40 joints</li> <li>• Borosilicate glass, clear</li> </ul>		
01-002h	Titration Set Up	
<ul style="list-style-type: none"> <li>• Glassware</li> <li>• 2 flask, 500 ml each</li> <li>• 2 burette, 50 ml each</li> <li>• Nickel-plated zinc double burette clamp with support stand and rod</li> <li>• Stir bar with spinning ring, 5/8" long x 1/8" diameter</li> <li>• Compact magnetic stirrer- for 1 L</li> <li>• Stir bar retriever, 18"</li> <li>• With smart thermometer, 1 count, 2AA batteries</li> </ul>		
01-002i	Analytical Balance	
<ul style="list-style-type: none"> <li>• Capacity: Max. 220g</li> <li>• Readability: 0.0001g</li> <li>• Calibration: Internal and External masses</li> <li>• Display: LCD, touchscreen</li> <li>• Units of Measurement: Ounce, Kilogram, Milligram, Gram, Pound</li> <li>• Application: Density, differential weighing, check weighing, percent weighing</li> <li>• Pan Size: 90mm diameter</li> <li>• Interface: RS232 and USB</li> <li>• Material: Metal base, removable stainless steel pan</li> <li>• Includes: <ul style="list-style-type: none"> <li>- Plastic top housing</li> <li>- Removable glass draftshield</li> <li>- Weigh-below hook</li> <li>- Security bracket</li> <li>- Calibration lock</li> <li>- In-use cover</li> <li>- AC adapter, 220V/60Hz</li> </ul> </li> </ul>		

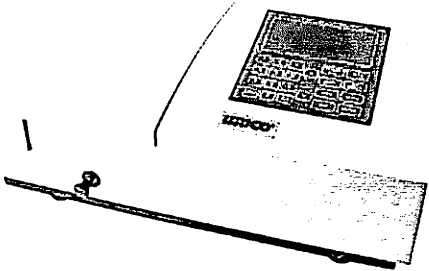
01-002j	Desiccator	
<ul style="list-style-type: none"> <li>• Clear Jar</li> <li>• Borosilicate glass</li> <li>• 300mm</li> <li>• Non-vacuum</li> <li>• Includes: <ul style="list-style-type: none"> <li>- Cover with molded-in knob</li> <li>- Plate, porcelain with hole</li> </ul> </li> </ul>		

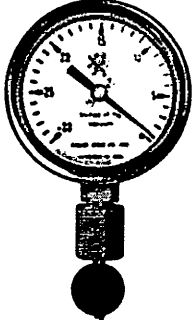
01-002k	Infrared Moisture Meter	
<ul style="list-style-type: none"> <li>• Capacity: Max 110 g, Min 0.5 g</li> <li>• Readability: 0.01g</li> <li>• Heating: 50° to 160° C</li> <li>• Calibration: Internal and external masses</li> <li>• Display: LCD, touchscreen</li> <li>• Unit of measurement: gram</li> <li>• Application: Moisture (%), solids (%), weight, time, temperature</li> <li>• Pan size: 90mm diameter</li> <li>• Material: ABS housing, metal pan support, metal pan handler</li> <li>• Features: <ul style="list-style-type: none"> <li>- 3 shut off criteria (manual, timed or auto)</li> <li>- 1 standard heating profile</li> </ul> </li> <li>• Interface: Rs232, bi-directional</li> <li>• Includes: <ul style="list-style-type: none"> <li>- In-use cover</li> <li>- AC adapter, 220V/60Hz</li> </ul> </li> </ul>		

01-002l	Water Activity Meter	
<ul style="list-style-type: none"> <li>• Electric resistance type</li> <li>• LCD touchscreen</li> <li>• Measurement range: 0.1 to 0.98 Aw</li> <li>• Measurement accuracy: <math>\pm 0.01</math> Aw (<math>25^{\circ}\text{C} \pm 0.3^{\circ}\text{C}</math>)</li> <li>• Calibration: 4 points (0.33, 0.53, 0.75, 0.93 Aw) 25 °C</li> <li>• Application: Solid, liquid, powder</li> <li>• USB compatible</li> <li>• Import max. 100 data and export data</li> <li>• Power: DC24V</li> <li>• Accessories: <ul style="list-style-type: none"> <li>- Power adapter, 220V/ 60Hz</li> <li>- 5x Sample container</li> <li>- 3x Saturated salt solution</li> <li>- 4x Silica gel</li> <li>- Grease</li> <li>- Dispensing spoon</li> <li>- Pipette</li> </ul> </li> </ul>		

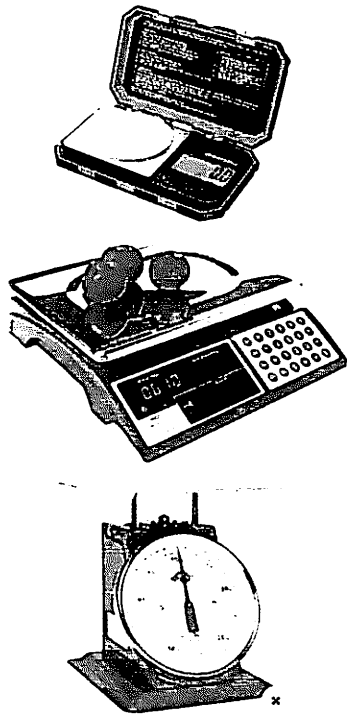
01-002m	Bostwick Consistometer	
<ul style="list-style-type: none"> <li>• Stainless steel</li> <li>• Sample volume: 75ml</li> <li>• Precision: 0.5 cm per grid</li> <li>• Engraved scale</li> <li>• Spring-loaded door</li> <li>• Two levelling screws and instruments</li> <li>• Dimension: 14 x 3.5 x 5.5 inches</li> </ul>		

01-002n	Set of Pycnometer	
<ul style="list-style-type: none"> <li>• Capacity: 5 ml, 10 ml</li> <li>• Clear borosilicate glass</li> <li>• With lid</li> <li>• 10 pcs each size</li> </ul>		

01-002o	Spectrophotometer	
<ul style="list-style-type: none"> <li>• Wavelength Range: 325-1000nm</li> <li>• Bandpass (Slit Width): 4nm</li> <li>• Optical System: Single Beam, Grating System (1200 Lines/mm)</li> <li>• Wavelength Accuracy: <math>\pm 2</math>nm</li> <li>• Wavelength Repeatability: <math>\pm 1</math>nm</li> <li>• Photometric Accuracy: <math>\pm 0.004</math> A at 0.5 A</li> <li>• Communication Ports: USB / RS-232</li> <li>• Control Buttons: 22 Buttons, Key Pad</li> <li>• Memory Capability: Up to 200 Standard Curves</li> <li>• LCD Display</li> <li>• Power: 220 V/ 60 Hz</li> </ul>		

01-002p	Vacuum Gauge	
<ul style="list-style-type: none"> <li>• Analog</li> <li>• 2.5" dial</li> <li>• 1 scale</li> <li>• 1/4" NPT</li> <li>• Standard bottom mount</li> <li>• Stainless steel</li> <li>• -30 Hg to 0 Hg</li> </ul>		



01-002q	Set of Weighing Scale	
<ul style="list-style-type: none"> <li>• 10 units x mini digital scale <ul style="list-style-type: none"> <li>- High Precision: 0.1g</li> <li>- Weight Range: 03g - 1000g</li> <li>- Conversion units: g/oz/ozt/dwt/ct(carat)/gn</li> <li>- Stainless steel weighing pan</li> <li>- LCD display</li> <li>- Hinged cover plate</li> <li>- 2x AAA batteries</li> </ul> </li>   <li>• 2 units x 10 kg digital weighing scale <ul style="list-style-type: none"> <li>- 5 memories</li> <li>- dual display, LED</li> <li>- stainless steel weighing pan</li> <li>- built-in 4V4Ah rechargeable battery</li> <li>- includes AC/DC charger</li> </ul> </li>   <li>• 5 units x 50 kg table scale <ul style="list-style-type: none"> <li>- Mechanical dial type</li> <li>- flat plate</li> <li>- Material: Aluminium, powder coat finish</li> </ul> </li> </ul>		

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>Modular Sewage Treatment Plant</b>
<b>Item Code</b>	01-003
<b>Technology Area(s)</b>	Food Processing Laboratory

### Installed Stages:

- MBBR Tanks
- Clarifier
- pH/Alkalinity Dosing
- Automated sludge removal
- IFAS Recirculation System
- S/S Tertiary filtration with automated backwash
- Chemical Phosphate Removal
- Effluent Disinfection
- Automated System Controls with touchscreen display and control panel. Can be monitored and controlled remotely.
- Plant box for sludge disposal

### Ingress Protection

- IP22, protected from touch by fingers and objects greater than 12mm, protected from water spray less than 15 degrees from vertical

### Design

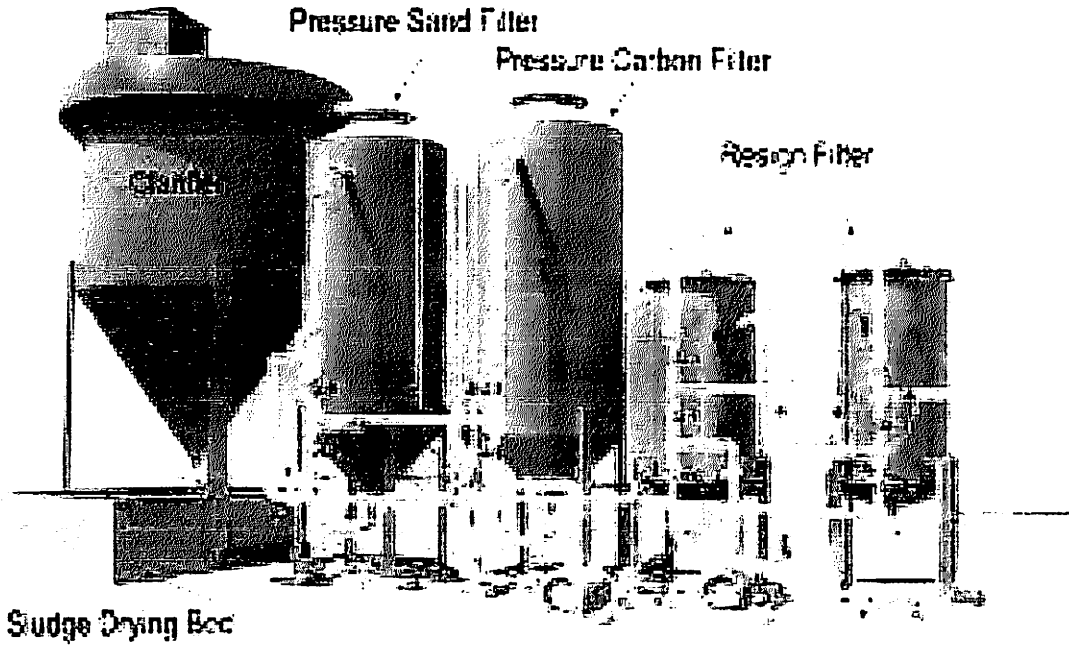
- Flowrate  
Capacity up to 8 cubic meters per day
- Standards  
Compliant to DENR DAO 2021-19

Parameters	Unit	DENR Effluent Standards
Biochemical Oxygen Demand, BOD	mg/L	50
Chemical Oxygen Demand, COD	mg/L	100
Ammonia	mg/L	4.0
Nitrate	mg/L	14
Phosphate	mg/L	4.0
Suspended Solids	mg/L	70
pH	mg/L	6.5-9.5



Oil and Grease	mg/L	5
Surfactants	mg/L	15
MBAS	mg/L	15

Sample Image:



*Note: Image is for reference only*

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**Name of  
Company/Bidder**

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**Signature over Printed Name of  
Authorized Representative**

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**Date**

# Technical Specifications

**Lot 2 : Industrial Automation**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance *	Make Brand / Model	Reference
1	Pressure, Flow, Level, Temperature Process Learning Systems	Kindly refer to the technical specifications attached as Annex D2.	1	set			
2	Industrial Automation 4.0		1	set			
3	IoT and Embedded Applications Complete Set		4	set			
4	Home Plant Factory		4	set			
5	Irrigation Controller		4	unit			
6	Smart Environment Controller		4	unit			
7	LED Grow Light Board		4	unit			
8	Soil Moisture Sensor		4	unit			
9	Agricultural Drone		1	set			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D2.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# ANNEX D2

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
2	Industrial Automation	02-001	Pressure, Flow, Level, Temperature Process Learning Systems	Refer to Technical Specification of Item Code 02-001	Learning System	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-002	Industrial Automation 4.0	Refer to Technical Specification of Item Code 02-002	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-003	IoT and Embedded Applications Complete Set	Refer to Technical Specification of Item Code 02-003	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-004	Home Plant Factory	Refer to Technical Specification of Item Code 02-004	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
2	Industrial Automation	02-005	Irrigation Controller	<ul style="list-style-type: none"> <li>• 8-Zone Indoor/Outdoor Sprinkler Controller</li> <li>• WiFi connection</li> <li>• Auto adjust to weather</li> <li>• Automated watering schedules</li> <li>• Compatible with Amazon Alexa, Google Assistant, Apple iOS 8 or greater, and Android 6.0 (Marshmallow) or later</li> <li>• Free Mobile Application</li> <li>• 110V-220V</li> </ul>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-006	Smart Environment Controller	<ul style="list-style-type: none"> <li>• Display: Digital LCD</li> <li>• No. of Device Supported: 4</li> <li>• Probe length: 12 ft.</li> <li>• Operating Humidity: 35 to 85% RH</li> <li>• Programming: Level Control, Temperature and Humidity Triggers, Timers, Cycles, Schedules, Minimum Level</li> <li>• Back-up Memory: YES</li> <li>• Independent Control: YES</li> <li>• App Connectivity: Bluetooth</li> <li>• Compatibility: Cloudline, Alriift, Cloudway, Cloudlift, longrid, IonBoard</li> <li>• Accessory: Adapter cord, at least 6.5 inches</li> </ul>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-007	LED Grow Light Board	<ul style="list-style-type: none"> <li>• Coverage: at least 4 x 4 ft.</li> <li>• LEDs: Samsung LM301B</li> <li>• Controller: 5-level dimming knob 40% /50% /60% /80% /100% /OFF</li> <li>• Lifespan: at least 100,000 hrs.</li> <li>• Diode Count: 1024</li> <li>• Efficiency: at least 2.7 <math>\mu\text{mol}/\text{j}</math></li> <li>• PPF: 1854</li> <li>• Heatsink: 4mm thick</li> <li>• Material: Aluminum, IP65</li> <li>• Input power: 200W-400W</li> <li>• Includes a pair of metal bar hangers and rope hangers</li> </ul>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
2	Industrial Automation	02-008	Soil Moisture Sensor	<ul style="list-style-type: none"> <li>• 4-in-1 with PH, temperature, moisture, and sunlight meter</li> <li>• 7-8" probe length</li> <li>• Soil Detector Range: <ul style="list-style-type: none"> <li>- Sunlight: LOW-, LOW, LOW+, NOR-, NOR, NOR+,HGH, HGH-,HGH+</li> <li>- Moisture: DRY+, DRY, NOR, WET, WET+</li> <li>- pH: 3.5-6.5 (Low), 7.0 (Neutral), 7.5-9.0 (Alkaline)</li> <li>- Temperature: -9 to 50°C (16 to 122°F)</li> </ul> </li> <li>• Digital LCD Display</li> <li>• Stainless steel, silicone cap</li> <li>• 4x AAA battery</li> </ul>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
2	Industrial Automation	02-009	Agricultural Drone	UAV sprayer drone Payload: 50L Working Speed: 5-10 m/s Duration of flight: 10-15 min (full payload) Spray width: at least 8-10 m Working efficiency: at least 5-8 acres/min Wheelbase: 2560mm No. of Nozzle: 12, interchangeable No. of Axis: 8, foldable Accessories: <ul style="list-style-type: none"> <li>- 1 x remote control, FPV screen</li> <li>- 1 x terrain/obstacle radar</li> <li>- 1 x charger</li> <li>- 1 x smart battery, 28000 mAh</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

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Name of Company/Bidder

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Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

## TECHNICAL SPECIFICATION

<b>Name of the Learning System</b>	<b>Pressure, Flow, Level, and Temperature Process Learning Systems</b>
<b>Item Code</b>	02-001
<b>Technology Area(s)</b>	Industrial Automation

### General Description

This training equipment simulates an automated industrial process control using distributed control system and programmable control system (PLC) technologies. With this equipment, one can learn to install sensors and monitoring devices, wiring of electrical circuits, configuration of instrumentation devices and controls, programming of PLC, debugging of programs and operation and monitoring of automated process control systems.

### Required Topics/Lessons:

- Installation and application of PLC programming software
- Programming and Application of DCS Control System
- Application of DCS Communication System
- Installation and Application of Process Control Equipment Piping
- Installation and application of pressure transmitter
- Installation and Application of Temperature Transmitter
- Installation and application of flow sensor
- Installation and application of liquid level transmitter
- Installation and Application of Weight Sensor
- Application of Industrial Automation Network
- Installation and wiring application of digital network intelligent measurement and control system
- Application of Instrument Communication System
- Cognition and application of production process technology
- Safe and civilized production

### Technical Description

- **Description of system operation**

This training simulator will consist of the following sub-systems:

No	Training Platforms	Qty	Unit Measure
1	<b>Mini-industrial process/System process</b> <i>This training equipment is a simulation of a chemical processing plant wherein it feeds material to a reactor through two feedlines for batching. The batching system is composed of two (2) raw material tanks and product mixing tanks. The system can perform functions such as precise proportioning of materials, timing control, and material mixing according to process requirements. The system allows monitoring and control of process variables such as pressure, level, flow and temperature, weight and others.</i>	1	set





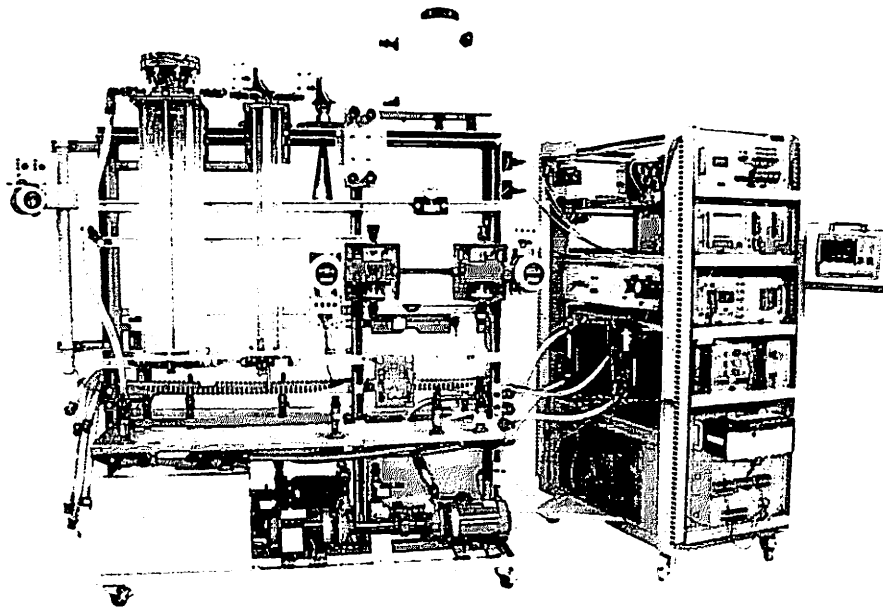
No	Training Platforms	Qty	Unit Measure
2	<b>Intelligent measurement and control system</b> <i>DCS system can support multi-domain control and operation, and has multi-programming language support in compliance with IEC international standards; including SFC, CFC, ST, LD and other languages, the system has fail-safe functions and complete project management functions, including multi-engineer collaborative work, configuration integrity management, online single-point configuration download, configuration and operation authority management, etc., and provide historical traceability of relevant operation records. The system is compatible with MODBUS, HART and other international standard field buses and the comprehensive integration of various heterogeneous systems. The system should allow real-time monitoring of subsystems over LAN and cloud.</i>	1	set
3	<b>Energy management platform</b> <i>This platform allows monitoring and control of all electrical parameters in the system in local and remote computers/devices</i>	1	set
4	<b>Visualization platforms</b> <i>This is composed of computer/s where the dashboard on process variable status and process simulation are displayed accessible in local and remote computers/devices</i>	1	set
5	<b>Training platform</b> <i>This includes reference materials, exercises/activities (20+ activities), 1 set of tools needed to service the equipment, and 1 spool of electrical wires (per color used in the system).</i>	1	set

- **General parameters**

- Working power supply 220 ± 10% 60Hz single phase (a transformer should be provided if the system requires other power supply)
- Protection: Overpressure, over temperature, liquid level alarm and emergency stop.
- Overall size should not be greater than 2m (width) x 3m (height) to ensure that ingress of the machine will not be an issue.
- Two (2) computer/s for programming and visualization should be Windows 11 compatible, 20 cores, 32 GB RAM, 1TB SSD, 2TB HDD, 2x 1Gbit LAN port and dual 27~34 inches monitor with 2K resolution and 21:9 or 16:9 image aspect ratio.
- DCS controller:
  - Supports PROFIBUS/HART/MODBUS and other common international fieldbus. Third-party devices, such as intelligent instruments, PLCs, and inverters are easily added.
  - Centralized supervision in real time
  - Centralized/decentralized I/O modules,
  - Decentralized risks and control
  - Open system architecture supporting OPC industrial standards
- Programmable Logic Controller/s
  - Ethernet and other communication standards
  - Support cloud-based monitoring and control
  - With digital and analog I/Os
  - Expandable centrally and on distributed basis

- Field devices
  - Pressure Transmitter, 0-100 Kpa 4-20mA, HART protocol
  - Level Transmitter 0-5 Kpa 4-20mA, HART protocol
  - Temperature Transmitter 0-100°C 4-20mA, HART protocol
  - Flow Sensors-RS485 communication
  - Weight sensor 0-10 kg RS485
  
- Software (2 users), compatible to latest release of Windows
  - PLC Programming software
  - Visualization design software
  - DCS Monitoring and supervision software
  
- Set of tools for equipment servicing
- This includes curriculum and instruction to exercises in print and digital format
- Extra hoses and electrical wires

Sample Image:



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

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**Name of  
Company/Bidder**

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**Signature over Printed Name of  
Authorized Representative**

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**Date**

## TECHNICAL SPECIFICATION

<b>Name of the Equipment</b>	<b>Industrial Automation 4.0</b>
<b>Item Code</b>	02-002
<b>Technology Area(s)</b>	Industrial Automation

### General Description

Represents a networked production system consisting of four pallet transfer systems with different application modules.

Prerequisites for creating the following process sequence after linking and starting a batch size 1 routing:

- The magazine module provides a housing shell
- The quality data collection is performed using the measuring module's analog distance sensors
- The drilling module performs an order-based simulated drilling operation on the front shell
- The output module performs the process end: workpiece output

Application Modules:

- Magazine Application Module (RFID, process Start)
- Analog Measuring Application Module (QS, Statistical Process Control, Analytics)
- Drilling Application Module (CPS, Production Parameters, Variants)
- Output Application Module (Parameter processing, Flexible handling, Logistics)

Supplements:

- Data Analytics and Virtual Reality

Technical Data

- Operating Pressure: 600 kPA ( 6 bar)
- Dimensions: approx 1800x1800x1800 mm

Training Content:

- CP Lab Design and Layout
- Sensors/Actuators
- Process Modules



- Conveyor Belt
- Network
- Process and Operations Management Level
- Recording information using intelligent sensors
- Control using PLC
- Communication based on bus technologies
- Binary pallet identification
- RFID identification
- Flexible production, one-off orders
- Quality management and SPC
- Plug & Produce: quick integration of new application modules using cyber-physical systems

#### **Manufacturing Execution System (MES) training content**

- Define and edit order workflows and process plans
- Read orders and update status
- Sort order lines
- Write goods carrier allocations to the order
- Create a material, including workpiece graphics
- Add machines, including power consumption
- Add warehouse data and material buffers
- Add and manage customer data
- Define system layouts with icons
- Generate OEE, SPC and malfunction reports, including graphics

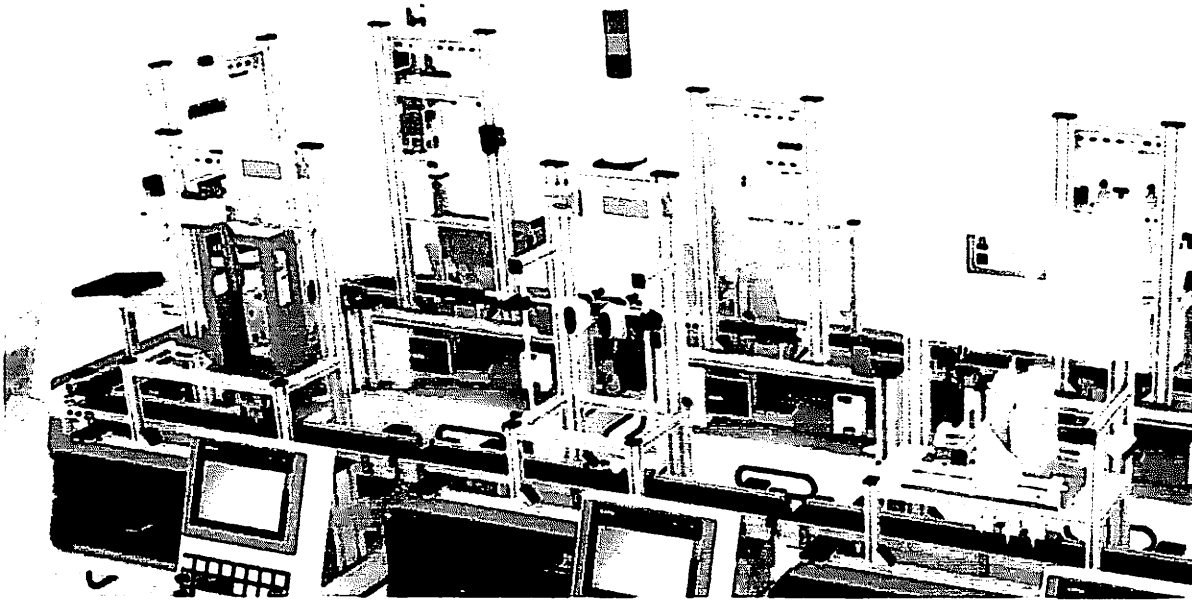
#### **Included Software**

- 1 PC with TFT monitor
- Programming and management software with 6 network licenses, educational license

#### **Inclusions:**

- Installation and Commissioning
- Technical Instruction
- 2-year warranty

**Sample Image:**



*Picture for reference only*

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## TECHNICAL SPECIFICATION

<b>Name of the Equipment</b>	<b>IoT and Embedded Applications Complete Set</b>
<b>Item Code</b>	02-003
<b>Technology Area(s)</b>	Industrial Automation

### General Description

Digi IoT development kits include boards, modules and accessories for rapid prototyping, testing and development of wireless applications. Starter Kit is selected from a varied assortment of smart devices to form a delicate gadget bundle, which is suitable for asset and personnel management, environment monitoring.

### Capabilities

- IOT Cellular Development
  - Cellular Smart Modem
  - LTE-M/NB-IoT Development Kit with XBIB-C Dev Board
  - Cellular LTE-M/NB-IoT Development Kit with XBIB-C Dev Board
- RF Module Development Kits
  - Zigbee Mesh Kit Worldwide
  - Development Kit
  - RF Module Dev Kit US/CA
- Embedded SOM Development Kits
  - Development Kit including Development Board with DigiConnectCore MP157 dual 512MB/512MB Wireless SOM
  - Development Kit with Development Board and Dual-Core NPU, 8GB eMMC, 1GB LPDDR\$ Wireless SOM
  - Digi ConnectCore Mini Development Kit
  - Digi ConnectCore Nano Development Kit
  - Digi ConnectCore 8x Pro Development Kit
  - Standard and Deluxe Development Kit

#### Kit Contents Include:

- Module
- Interface board with standoffs/connectors
- Prototyping board with standoffs/connectors
- USB cable to program the kit via interface board
- Dynamic C CD-ROM which includes Digi Device Cloud library and samples
- Getting Started instructions
- Universal AC adapter, 5 V DC, 2 A
- Digital I/O and serial communication accessory boards
- CAT 5/6 Ethernet cable and DB-9 to 10-pin header serial cable

**Sample Image:**



*Picture for reference only*

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<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of the Equipment</b>	<b>Home Plant Factory</b>
<b>Item Code</b>	02-004
<b>Technology Area(s)</b>	Industrial Automation

**Specifications:**

No. of Layer: 2

Production capacity: at least 23 per layer per 20 days

Production Area: 152L

Nutrient Volume: 28L

Climate Control: Temperature and humidity, automatic

Water supply: internal water tank

Control: LCD panel or better

Noise: 45dB

Material: powder coated stainless steel body, glass door

Type: Vertical, free-standing

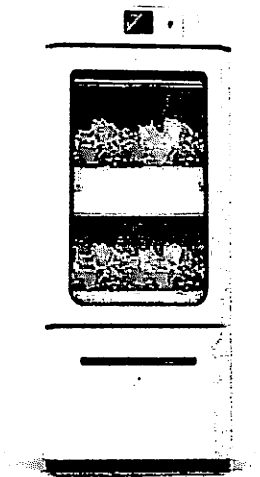
Power: <4kW, 220V 60Hz

Dimension: ≤ 740\*660\*1460 mm

Movable tray

With 4 wheels

**Sample Image:**



*Picture for reference only*

hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# Technical Specifications

Lot 3

: Building Automation

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Direct Digital Controller	Kindly refer to the technical specifications attached as Annex D3.	2	unit			
2	8 Digital Input Module		2	unit			
3	16 Digital Input Module		2	unit			
4	6 Relay Output Module		2	unit			
5	6 Relay Output Module with Override		2	unit			
6	8 Universal I/O Module		2	unit			
7	8 Universal I/O Module, Override and LCD		2	unit			
8	8 Universal I/O Module, 4-20mA		2	unit			
9	8 Universal I/O Module, 4-20mA, Override and LCD		2	unit			
10	Compact Room Automation Station		2	unit			
11	Temperature Sensor		2	unit			
12	Humidity Sensor		2	unit			
13	Air Quality Sensor		2	unit			
14	VAV Actuator		2	unit			

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
15	Lighting Actuator	Kindly refer to the technical specifications attached as Annex D3.	2	unit			
16	KNX Training Kit		5	set			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D3.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

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Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



# ANNEX D3

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-001	Direct Digital Controller	<p>Interfacing Controller for Sub-system with BACnet MSTP and Modbus RTU Connection like for VAV Controllers, AHU Controllers and etc.</p> <p>System controller to integrate</p> <ul style="list-style-type: none"> <li>• up to 500 Modbus data points (via RTU and/or TCP)</li> <li>• up to 30 BACnet/MSTP devices in a field level network</li> <li>• up to 31 Modbus RTU devices in a field level network</li> </ul>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-002	8 Digital Input Module	<p>8 digital input, signaling per input with three-colored LED (green, yellow, red).</p> <p>8 DI, individually configurable as:            Message signal            Message impulse with storage functions            Counter impulse for up to a maximum of 10 Hertz</p> <p>Operating voltage: DC 22.5...26 V            Power consumption: 1.1 W            Digital inputs, number: 8            Weight (net): 0.164 kg            Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-003	16 Digital Input Module	<p>16 digital input, signaling per input with green LED.</p> <p>16 DI, individually configurable as:            Message signal            Message impulse with storage functions            8 inputs as counter impulse for up to a maximum of 10 Hertz</p> <p>Operating voltage: DC 22.5...26 V            Power consumption: 1.4 W            Digital inputs, number: 16            Weight (net): 0.199 kg            Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-004	6 Relay Output Module	<p>Operating voltage: DC 22.5...26 V  Power consumption: 1.7 W  Relay outputs, number: 6  Weight (net): 0.231 kg  Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-005	6 Relay Output Module with Override	<p>6 outputs, signaling per output with three-colored LED (green, yellow, red), with local operation as per ISO 16484.</p> <p>6 DO (relay switch), individually configurable as:  Continuous or impulse contact  Single-stage or multi-stage  Three-point positioning output with internal stroke model  Switching voltage AC 12...250 V / DC 12...30 V  Switching current max. 4 A</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-006	8 Universal I/O Module	<p>8 inputs/outputs signaled with green LED.</p> <p>8 universal I/O points, individually configurable as:  DI: Message signal, message impulse or counter impulse (25 Hertz)  AI: Temperature sensor or DC 0...10 V  AO: DC 0...10 V</p> <p>Operating voltage: DC 22.5...26 V  Power consumption: 1.5 W  Universal inputs/outputs, number: 8  Weight (net): 0.179 kg  Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-007	8 Universal I/O Module, Override and LCD	<p>8 Universal I/O Module, Override and LCD 8 inputs/outputs signaled with green LED, with local operation as per ISO 16484 with LCD signal display.</p> <p>8 universal I/O points, individually configurable as: DI: Message signal, message impulse or counter impulse (25 Hertz) AI: Temperature sensor or DC 0...10 V AO: DC 0...10 V</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-008	8 Universal I/O Module, 4-20mA	<p>8 Inputs/outputs signaled with green LED.</p> <p>8 universal I/O points, individually configurable as: DI: Message signal, message impulse (with storage function) or counter impulse (25 Hz) AI: Temperature sensor, DC 0...10 V, or 4...20 mA AO: DC 0...10 V, 4...20 mA (for 4 I/O points)</p> <p>Operating voltage: DC 22.5...26 V Power consumption: 2.2 W Universal input, signal: 4...20 mA Universal inputs/outputs, number: 8 Weight (net): 0.194 kg Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-009	8 Universal I/O Module, 4-20mA, Override and LCD	<p>8 Inputs/outputs signaled with green LED, with local operation as per ISO 16484 with LCD signal display.</p> <p>8 universal I/O points, individually configurable as:  DI: Message signal, message impulse (with storage function) or counter impulse (25 Hertz)  AI: Temperature sensor, DC 0...10 V, or 4...20 mA  AO: DC 0...10 V, 4...20 mA (for 4 I/O points)</p> <p>Operating voltage: DC 22.5...26 V  Power consumption: 2.3 W  Universal input, signal: 4...20 mA  Universal inputs/outputs, number: 8  Weight (net): 0.211 kg  Dimensions (W x H x D): 64 x 77.5 x 98 mm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-010	Compact Room Automation Station	Refer to Technical Specification of Item Code 03-010	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-011	Temperature Sensor	<p>Sensing element: Pt100  Sensing element, temperature: Pt100  Time constant: 420 s  Measuring range, temperature: 0...50 °C  Measurement accuracy: At 0...50 °C: ±0.6 K  Connection, electrical: Screw terminals  Degree of protection: IP30  Dimensions (W x H x D)*: 90 x 100 x 32 mm</p>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-012	Humidity Sensor	<p>Signal output humidity: DC 0...10 V  Signal output temperature: DC 0...10 V  Operating voltage: AC 24 V, DC 13.5...35 V  Sensing element, temperature: DC 0...10 V  Measuring range, temperature: 0...50 °C, -35...35 °C, -40...70 °C  Measurement range humidity: 0...95 % r.h.  Measurement accuracy: 23 °C: 23 % r.h., 0...95 % r.h.: ±5 % r.h.  Time constant: Humidity: 20 s, Temperature: 510 s  Dimensions (W x H x D): 90 x 100 x 36 mm</p>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-013	Air Quality Sensor	<p>Operating voltage: AC 24 V, DC 15...35 V  Analog output, signal: DC 0...10 V  Measuring range: 0...2000 ppm CO<sub>2</sub>  Ambient temperature, operation: 0...50 °C  Degree of protection: IP30  Dimensions (W x H x D): 90 x 100 x 36 mm</p>	Measuring Instruments	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-014	VAV Actuator	<p>Compact controller for plants with variable or constant air volume flow            Integrated, highly precise differential pressure sensor, damper actuator and digitally configurable air volume controller            Nominal torque 5 Nm, air damper rotation angle mechanically adjustable between 0 and 90°            Forced close-off function in DC 2...10 V operation            Optionally configurable as VAV compact controller or as damper actuator/differential pressure sensor unit            Prewired with a 0.9 m connecting cable            Angular rotation: 90°            Power consumption: 3 VA, 2.5 W            Positioning time: 150 s            Cable length: 0.9 m            Degree of protection: IP54            Ambient temperature, operation: 0...50 °C            Medium temperature: 0...50 °C            Ambient humidity, operation: 95 % r.h.            Dimensions (W x H x D): 71 x 158 x 61 mm            Operating voltage: AC 24 V            Position feedback: DC 0...10 V            Auxiliary switch: 0            Air damper area: 0.8 m<sup>2</sup>            Torque: 5 Nm</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
3	Building Automation	03-015	Lighting Actuator	<p>Rated voltage: AC 230 V            Rated current: 20 A            Number of channels: 12            Dimensions (W x H x D): 216 x 90 x 60 mm            Dimension width (1 MW = 18 mm): 12 MW            Additional functionalities GAMMA            Per output</p>	Device	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes



Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
3	Building Automation	03-016	KNX Training Kit	<p>The room model in the KNX Training Kit enables to show all KNX functions such as:</p> <ul style="list-style-type: none"> <li>• Lighting group A &amp; B above a meeting table</li> <li>• Lighting group C in a meeting room</li> <li>• Lighting D in the staircase</li> <li>• Office room lighting E and F</li> <li>• Blinds on four sides M1, M2, M3 and M4</li> <li>• Wind sensor simulation</li> <li>• Window open / closed</li> <li>• Heating radiator G with red LED strip</li> <li>• Cooling element H with blue LED strip</li> </ul> <ul style="list-style-type: none"> <li>• Power supply unit N 125/22</li> <li>• USB-Interface N 148/12</li> <li>• IP-Router N 146/03</li> <li>• IP Control Center N 152</li> <li>• 8-port network switch 10/100 Mbit/s</li> <li>• 3 x KNX connection sockets</li> <li>• 2 x DALI connection sockets (prepared for DALI)</li> <li>• Switching/dimming, heat &amp; cool with N 536DB51</li> <li>• 4 x blinds with 2x RL 521/23 with AP 118</li> <li>• Pushbutton interface UP 220D31</li> <li>• Pushbutton with LED via UP 220D31</li> <li>• Room control unit with display UP 227</li> <li>• BTM, i-system pushbutton, LED, white UP 223/13</li> </ul> <p>FUNCTIONS:</p> <ul style="list-style-type: none"> <li>• Switching, dimming, solar protection, set value, central function</li> <li>• Heating and cooling with room control unit UP 227</li> <li>• Window contact</li> <li>• information display and weekly schedule programs with room control unit UP 227</li> <li>• KNX/IP communication</li> <li>• Alarm function „wind“</li> <li>• Web visualization and application modules with</li> </ul>	Learning System		<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
				scheduler program, scene module and logic function with the IP Control Center N 152  ADDITIONAL FUNCTION AND OPERATION MODULE: * Shall include all other FOM extension modules not included in basic configuration: Pushbutton & Presence detector Presence Detector WIDE multi RGB/HCL Presence Detector WIDE multi Dual Tech RGB/HCL Presence Detector WIDE multi Presence Detector WIDE Dual Tech QMX3 Touch Panel TC5 Cover Plate DALI KNX DALI-2 LED-Dimmer 4-fold LED dimmer module with light source				

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
**Name of Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of Authorized Representative**

\_\_\_\_\_  
**Date**

## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>Compact Room Automation Station</b>
<b>Item Code</b>	03-010
<b>Technology Area(s)</b>	Building Automation

**Description:** Automation station with increased functionality and flexibility to support the demands for standard control of terminal HVAC equipment and Total Room Automation (TRA) applications

- Compact, programmable room automation stations for HVAC, lighting, and shading
- BACnet IP Ethernet Communication (BTL certified)
- 2 port Ethernet switch
- KNX PL-Link bus to connect sensors, actuators, and operator units (including bus power)
- USB interface
- Operating voltage AC 24V
- Mounted on standard DIN rails or on the wall
- Plug-in terminal blocks

### FEATURES:

- Total Room Automation applications combining multiple disciplines (HVAC, lighting, blinds/shading) into one comprehensive solution
- BTL Listed as a BACnet Advanced Application Controller (B-AAC) device
- Fully programmable using block programming
- Proven, pre-loaded applications
- Operational modes (Comfort, Standby, Economy, Protection, and so on)

### PRECONFIGURED APPLICATIONS:

#### 1. Fan Coil Unit (FCU)

- FAN COIL 2-Pipe CW/HW and HW Valves
- FAN COIL 4-Pipe CW and HW Valves
- FAN COIL staged DX Cooling and staged Heating
- FAN COIL with CW and staged Electric Heat
- FAN COIL–UNIT VENT with CW, HW and Outside Air Damper (OAD) control
- FAN COIL–UNIT VENT with CW, ELEC and OAD control
- FAN-COIL-UNIT VENT with DX, HW and OAD control
- FAN COIL-UNIT VENT with DX, ELEC and OAD control

#### 2. Chilled Beam

- Chilled Beam Passive 2 Pipe Heating/Cooling and Radiator 1-Stage Electric Heat Pump
- HP Variable Speed, Two Stage Elec Heat and One Stage Elec Rad with OAD
- HP Variable Speed, Water Source, HW Heat and Modulating Elec Rad with OAD

- HP Single Stage, One Stage Elec Heat and HW Rad with OAD
- HP Multi Stage, Two Stage Elec Heat and HW Rad with OAD
- HP Multi Stage, Hot Gas Reheat, One Stage Elec Heat and HW Rad with OAD
- HP Multi Stage, Ground Source, Hot Gas Reheat, One Stage Elec Heat and HW Rad with OAD

### 3. Additional Applications

- Electrical terminal heating coils, PWM, single, multi-stage or analog
- Terminal fans, single, multi-stage or analog
- Chill water, DX or hot water coils and heating/cooling coils (2-pipe or 4-pipe)
- Variable Air Volume (VAV), Dual Duct and Fan Powered VAV (FPB)
- Radiant ceiling including Chilled beams, cooling, heating and heating/cooling (2-pipe or 4- pipe) control
- Radiator/Baseboard: hot water, steam or electric
- Lighting – up to four separated or overlapping zones
  - Manual switching and dimming
  - Occupancy control and Vacancy control
  - Automatic Daylight Harvesting - step or constant level control
  - Stairwell lighting
  - Scene control
- Blinds – one or two separate zones
  - Manual control: Up, Down, Predefined positions
  - Occupancy control and Vacancy control
  - Glare Protection
  - Energy efficiency functions including solar radiation optimization
  - Slat angle
  - Scene control

### 4. Pre-loaded Application Options

#### a. Fan coil unit

- Single, multiple or variable speed fan control
- Outside air damper control with economizer
- Ventilation Control or Demand Control Ventilation (DCV) with separate outside air damper (OAD) setpoints for each operational mode
- Supply (discharge) air temperature control for modulation heating or cooling coils
- Dehumidification control
- Terminal coils: heating (hot water or electric), cooling (chilled water or DX) and heating/cooling coil (2-pipe or 4-pipe)
- Radiant ceiling including Chilled beams and Radiator control

#### b. Heat pump

- Heat Pump compressors: Single, multiple or variable speed.
- Air-to-air, water loop or ground water configurations.
- Single, multiple or variable speed fan control.
- Outside air damper control with economizer.
- Dehumidification control.
- Ventilation Control or Demand Control Ventilation (DCV) with separate outside air damper (OAD) setpoints for each operational mode.
- Terminal heating coil (hot water or electric) or hot gas coil.

- Radiant ceiling including Chilled beams and Radiator control.
- Greenleaf energy efficiency determination and display.
- Configurable plant operating modes (heating, cooling, warm up, cool down, flush/purge, and so on).

## **FUNCTIONS:**

- The selected application and its parameters as well as input and output configuration determine the room automation station's functionality.
- A detailed description of functionality is available in the ABT (Automation Building Tool) online help.

### **Communication**

- 2-Port Ethernet switch for cost-effective cabling via line topology
- USB connection for service and commissioning, firmware download, and LAN access
- The following functions are available with the KNX PL-Link bus:
  - Communication with room operator units, switches, sensors, actuators, and luminaires.
  - Plug-and-play connection of Siemens field devices with KNX PL-Link.
  - Integration of common devices using KNX S-Mode (ETS engineering required).

## **TYPE SUMMARY:**

Inputs - 2 DI, 4 UI

Outputs - 8 DO Triacs, 4 AO 0 to 10V

Accessory: 499 ohm Resistor Kit

## **PRODUCT DOCUMENTATION:**

1. Installation and mounting
2. Global Datasheet
3. Setup and commissioning
4. Room Unit Datasheet
5. BTL listing

## **TECHNICAL DATA:**

### **A. Housing**

- Color: Light Gray
- Dimension: 180 mm (7.09 in) x 104.5 mm (4.11 in) x 59.5 mm (2.34 in)

### **B. Function data**

- Communication
  - A/D Resolution (analog in): 14 Bits
  - A/D Resolution (analog out): 12 Bits

### **C. Power data**

1. Power supply
  - Operating voltage: AC 24V -15%/+20%
  - Frequency 50/60 Hz
  - Internal fuse 4 A irreversible
  - Transformer with secondary current limitation of max. 10 A or external secondary

#### current fuse

- Non-renewable fuse: Max. 10 A, slow
- Circuit breakers: Max. 13 A, characteristic B, C, D as per EN 60898

#### 2. Apparent power (VA) for transformer design

- Base load: 8
- Max. load Triac output AC 24V~ 0.25 A each: 8 x 6= 48
- Max. load all Aux. outputs AC 24V~: 18
- Max. load KNX PL-Link (at 50 mA): 4
- Max. load DC 24V+ (2.4 W): 6
- Max. Allowed Power consumption including connected field devices: 72

### D. Inputs

#### 1. Analog Inputs

- Resistance sensor
  - AI 1000  $\Omega$ , AI 2500  $\Omega$ , AI 10 K $\Omega$ , AI 100 K $\Omega$
- Temperature measurement
  - AI PT1K 375 (NA)\*, AI PT1K 385 (EU)\*, AI (LG-)Ni1000\*, AI Ni1000 DIN\*), AI T1 (PTC)\*, AI NTC10K (Type II)\*\*), AI NTC100K\*\*)
- Voltage measurement
  - AI 0 to 10V, AI 0 to 10V (0 to 100%)

#### 2. Digital Inputs

- Contact voltage
  - Universal input: 18V
  - Digital input: 21V
- Contact current
  - Universal input: 1.2 mA; 7.4 mA initial current
  - Digital input: 1.6 mA; 9.4 mA initial current
- Contact resistance for closed contacts: Max. 100  $\Omega$
- Contact resistance for open contacts: Min. 50 k $\Omega$

### E. Outputs

#### 1. Analog Outputs

- 0 to 10V: Max. 1 mA

#### 2. Digital Outputs

- Type (Switching outputs triacs)
  - High side
  - The Triac closes the contact to AC 24V
- Switching voltage: AC 24V
- Permissible load:
  - 250 mA/6 VA per output (cos phi 0.35)
  - (500 mA/12 VA per output with PWM\*)
- Protection: Short-circuit proof

#### 3. DC 24V output for field devices (1: V+)

- Output voltage: DC 24V
- Permissible load: 100 mA/2.4 W
- Protection against overload: Short-circuit proof

## **F. Connections**

### **1. Interfaces**

- Ethernet
  - Plugs: 2 x RJ45, screened
  - Interface type: 10Base-T/100BASE-TX, IEEE 802.3 compatible
  - Bitrates: 10/100 Mbps, autosensing
  - Protocol: BACnet over UDP/IP
  
- USB (2.0)
  - Plug: Type B
  - Data rate: 12 Mbps
  
- KNX
  - Type: KNX TP1 PL-Link, galvanic isolation
  - Baud rate: 9.6 Kbps
  - Bus power: 50 mA
  - Short-circuit proof Protection against faulty wiring at max. AC 24V

### **2. Wiring connections**

- Pluggable screw terminals
  - Copper wire or copper strands with ferrules
    - 1 x 0.6 mm dia. to 2.5 mm<sup>2</sup> (22 to 14 AWG) or
    - 2 x 0.5 mm dia. to 1 mm<sup>2</sup> (24 to 18 AWG)
  - Copper strands without ferrules
    - 1 x 0.6 mm dia. to 2.5 mm<sup>2</sup> (22 to 14 AWG) or
    - 2 x 0.5 mm dia. to 1.5 mm<sup>2</sup> (24 to 16 AWG)
  
- Slotted screws: Small 1/8" blade, tightening torque 0.6 Nm (0.44 lb-ft)
  
- Wiring lengths for signals
  - KNX PL-Link 80 m (260 ft) with internal bus power or 300 m (990 ft) with external power supply
  - Ethernet 100 m (330 ft) Signal lines 80 m (260 ft) For inputs AI 100 K $\Omega$ , AI NTC10K, AI NTC100K: 30 m (100 ft) or 80 m (260 ft), if shielded.

### **3. KNX/PL-Link Network and Power Wiring**

- Cable configuration
  - 1 or 2 twisted pair
  - Pair 1 red/black
  - Pair 2 yellow/white
- Gauge- 20 AWG (solid copper)
- Twists per foot- 4 Minimum
- Capacitance- 30 pF/foot or less
- Shields- 100% foil with drain wire
- UL type- 300Vrms, CMP (75 °C or higher)
- CSA type- 300Vrms, FT6 (75 °C or higher)



**G. Conformity**

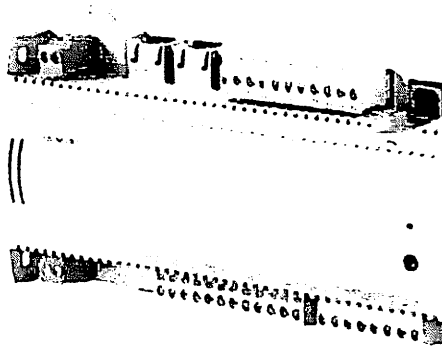
**1. Ambient Conditions and Protection classification**

- Climatic ambient conditions
  - Transport and storage
    - Temperature -25 to 70°C (-13 to 158°F)
    - Air humidity 5 to 95% rh.
  - Operation
    - Temperature -5 to 45°C (23 to 113°F)/ -5 to 50°C (23 to 122°F)
    - Air humidity 5 to 95% rh.

**2. Standards, Directives and Approvals**

- UL Listing
  - UL 916 PAZX - Conforms to UL916 9th and 10th Edition. UL 864 UUKL Smoke Control Equipment - Conforms to UL864 9th and 10th Edition. (Smoke Control 'K' variant only)
  - Suitable for plenum area installation: UL1995
  - Federal Communications Commission: FCC CFR 47 Part 15 Class B
  - CSA Compliance and cUL certification: C22.2 No. 205
  - Environmental compatibility - RoHS Compliant: The product environmental declaration contains data on environmentally compatible product design and assessments (composition, packaging, environmental benefit, and disposal).
  - BACnet BTL Listing: BTL-AAC
  - CEC Title 24 Supported
  - ASHRAE 90.1 Supported
  - Quality: ISO 9001

**Sample Image:**



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

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<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# Technical Specifications

**Lot 4 : Additional Devices for Industrial Automation**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	SCADA Station and Accessories	Kindly refer to the technical specifications attached as <b>Annex D4.</b>	1	set			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D4.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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**ANNEX D4**

Lot No.	Lot	Code	Item/Group Name	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
4	Additional Devices for Industrial Automation	04-001	SCADA Station and Accessories	Refer to Technical Specification of Item Code 04-001 for specific item, quantity per item and technical specification	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

## TECHNICAL SPECIFICATION

<b>Name of The Learning System</b>	<b>SCADA Station and Accessories</b>
<b>Item Code</b>	04-001
<b>Technology Area(s)</b>	Additional Devices for Building Automation

### Industrial PC for SCADA (2 sets)

#### Specification

- SIMATIC IPC347G (Rack PC, 19", 4U)
- Core i7 6700 (4C/8T, 3.4 (4.0) GHz, 8 MB cache, 1 TB HDD; 32 GB DDR4 (2x 16 GB)
- PS 350W 2x Gbit Ethernet, 1x DP, 1x VGA
- 2x USB on the front, 4x USB on the rear, 2x USB internal, 2x serial, 2x PS/2, audio no DVD +/-RW
- 100/240 V
- industrial power supply without a power supply cable
- Windows 10 IoT Enterprise for i7
- USB keyboard
  - Desktop keyboard
  - DE layout (QWERTY), Cable with connector type A
  - black
- USB 2.0 mouse, black, wireless

### Engineering Software (TIA Portal) (2 licenses)

- SIMATIC WinCC Professional V17
  - max. PowerTags, engineering software in the TIA Portal
  - Floating License software and documentation on DVD license key on USB flash drive
  - Class A
  - 6 languages: de,en,fr,es,it,zh
  - For configuration of SIMATIC Panels, WinCC Runtime Advanced, WinCC RT Professional (max. PowerTags), WinCC Unified PC Runtime

### WinCC Runtime Professional SW package for SIMATIC IPC (2 licenses)

- 65536 PowerTags
- includes: WinCC Runtime Professional 65536
- Content: 6AV2105-0MA07-0AA0

### SIMATIC STEP 7 Professional V17

- Floating License
- Engineering software in TIA Portal
- Software and documentation on DVD
- License key on USB flash drive
- Class A
- 9 languages: de,en,zh included, fr,sp,it,ru,jp,kr as download
- Executable in Windows 10, Windows Server 2016/2019

- For configuration of SIMATIC S7-1200/1500, SIMATIC S7-300/400/WinAC, SIMATIC Basic Panels
- Content: set (4x DVD + 1x USB)

#### **Ethernet Switch (2 unit)**

- SCALANCE XB116 unmanaged IE switch, 16x 10/100 Mbit/s RJ45 ports
- For setting up small star and line topologies
- LED diagnostics, IP20
- Redundant power supply, 24 V AC/DC
- Manual available as a download

#### **IWLAN Access Point (2 unit)**

- SCALANCE W774-1 RJ45
- 1 radio
- 2 R-SMA antenna port
- iFeatures support via KEY-PLUG
- IEEE 802.11a/b/g/h/n, 2.4/5GHz
- Gross data rate 300 Mbit/s, 2x RJ45 max. 100 Mbit/s
- PoE integrated 2-port switch
- Redundant 24 V DC, joint block, IP30, -20... 60 °C, plug slot WPA2/802.11i/e
- CERT ID: MSN-W1-RJ-E2
- Scope of delivery: Manuals on CD-ROM, German/English, 1x joint block
- For operation outside of USA/Israel

#### **IWLAN antenna (2 pcs)**

- ANT795-4MA IWLAN antenna with omnidirectional
- Characteristic Radially rotatable
- With additional joints, incl. RSMA connector: 3/5 dBi, IP30 (-20-+60 °C), 2.4/5 GHz
- Wi-Fi compliance and Observe national approvals
- Direct mounting on SCALANCE W with RSMA connection system
- Scope of delivery: 1x ANT795-4MA, compact instructions as hard copy
- German/English

#### **DIN rail mounting adapter (8 pcs)**

- Used in connection with SCALANCE W778/W778EEC/W738; SCALANCE WAM766-1/WAM766-1EEC/ WUM766-1 / MUM856-1
- 90° DIN rail mounting for SCALANCE WAM763-1/WUM763-1/ MUM853-1
- scope of delivery: adapter, fixing screws

#### **Router (2 units)**

- SCALANCE M874-2 2G
- For wireless IP communication from Ethernet- based automation devices via 2G mobile radio VPN, Firewall, NAT
- 2-port switch
- 1x digital input, 1x digital output
- Observe national approvals

#### **Mobile wireless antenna (2 pcs)**

- ANT794-4MR mobile wireless antenna for 2G/3G/4G EU, GSM/UMTS/ LTE EU networks, Rod antenna
- Omnidirectional
- Weatherproof for indoors and outdoors

- 5 m connection cable permanently connected to the antenna
- SMA connector
- Includes mounting bracket, screws, screw anchor

#### **Industrial Ethernet TP Cord (2 pcs)**

- RJ45/RJ45, CAT 6A, TP cable
- 4x2, pre-assembled with 2 RJ45 connectors
- Length 10m

#### **SIMATIC Field PG M6 Advanced (2 pcs)**

- i7-8850H (2.6 to 4.3 GHz)
- 6 kernels + hyper-threading
- 9 MB Smart Cache)
- 15.6" display
- Full HD (1920 x 1080)
- WLAN 802.11ac & Bluetooth V5.0
- DVD +/-RW
- UHD Graphics 630
- 1x 32 GB DDR4 SD-RAM SO-DIMM
- 2 TB SSD SATA (2.5")
- without S5 interface, without S5-EPROMMER
- Power cable with power plug: Europe
- Keyboard: QWERTZ/QWERTY (Germany)
- 1 TB SSD NVME (M.2)
- Windows 10 IoT Enterprise (Version 1903), 64-bit license for STEP 7 Professional Combo
- WinCC Advanced Combo (TIA Portal & WinCC flexible)
- Safety Advanced Combo (TIA Portal & Distributed Safety)
- Version of the pre-installed and licenses V17

#### **Nanobox PC (2 units)**

- SIMATIC IPC227E
- 1x display port
- 2x 10/100/1000 Mbps Ethernet RJ45
- 1x USB3.0, 3x USB2.0
- CFast slot; 24 V DC
- industrial power supply
- Industrial Edge (Simatic)

#### **Industrial Edge App (2 licenses)**

- Performance Insight
- Industrial Edge app
- 12-month license
- Includes 3 assets
- Visualization and calculation of KPIs
- Consignee e-mail address required for delivery
- Requirement: Industrial Edge
- Access (6ES7823-0EE00-4AX0)
- Data Service Ind. Edge app 50GB (6AV2170-1JA03-0AA0)

#### **Human Machine Interface (2 units)**

- SIMATIC HMI TP1500 Comfort
- Comfort Panel

- Touch operation
- 15" widescreen TFT display
- 16 million colors
- PROFINET interface
- MPI/PROFIBUS DP interface
- 24 MB configuration memory
- WEC 2013
- Configurable from WinCC Comfort V14 SP1 with HSP

**Compact CPU (2 units)**

- SIMATIC S7-1500
- CPU 1512C-1 PN
- Central processing unit with working memory 250 KB for program and 1 MB for data, 2 digital inputs, 32 digital outputs, 5 analog inputs, 2 analog outputs, 6 high speed counters, 4 high speed outputs for PTO/PWM/frequency output 1
- Interface: PROFINET IRT with 2 port switch, 48 NS bit-performance
- Includes front connector push-in, SIMATIC memory card necessary

**Mounting Rail (2 pcs)**

- S7-1500, 160 mm

**Memory Card (2 pcs)**

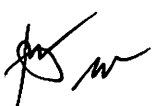
- SIMATIC S7
- Memory Card for S7-1X00 CPU/SINAMICS
- Flash, 24MB

**Modular single axis drive trainer (2 units)**

- Power Module PM240-2 230 V 1AC CU240E-2 Control Unit
- Operator panel IOP-2 SIMOTICS GP asynchronous motor
- WxHxD (mm): 560 x 695 x 325
- The following expansions are possible: Second Power Module, diverse Control Units, servo modules with load device and encoder system, as well as a SIMATIC module
- Not possible with a training case modular compact. The training case is supplied as trolley case

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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# Technical Specifications

**Lot 5 : IT Equipment**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance *	Make Brand / Model	Reference
1	LED Wall	Kindly refer to the technical specifications attached as Annex D5.	2	set			
2	Desktop Computer for Productivity Application		25	set			
3	Desktop Computer for 3D Design		15	set			
4	Tablet for illustration and light video editing		35	set			
5	Ultralight Laptop		11	set			
6	Adobe Creative Cloud All Apps		26	license			
7	Microsoft Office 365		25	license			

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All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D5.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

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\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



# ANNEX D5

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
5	IT Equipment	05-001	LED Wall	<ul style="list-style-type: none"> <li>- Indoor SMD LED Display P2.5</li> <li>- Wall size: 2 (h) x 8 (w) meters</li> <li>- Front Access Service/Maintenance</li> <li>- Built-in power supply</li> <li>- 2 years warranty</li> </ul> <p>Includes:</p> <ul style="list-style-type: none"> <li>- Laptop</li> <li>- Video processor</li> <li>- Frame, bracket and installation</li> <li>- Training</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes
5	IT Equipment	05-002	Desktop Computer for Productivity Application	<ul style="list-style-type: none"> <li>- OS: Windows 10</li> <li>- Core I5 (2.9GHZ)</li> <li>- 4GB DDR4 or faster</li> <li>- 1TB HDD, 2GB Graphics</li> <li>- DVD writer</li> <li>- 220VAC 60Hz compliant</li> <li>- 21.5 inch monitor FHD</li> <li>- With Mouse</li> <li>- With OS installed</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes



Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
5	IT Equipment	05-003	Desktop Computer for 3D Design	<ul style="list-style-type: none"> <li>- CPU</li> <li>- Processor: 12 Cores 24 threads 4.7GHz or higher overclockable</li> <li>- Motherboard: 4 memory slot, Built-in Audio port, Gigabit Lan Port, 2x 3.2 Gen USB port, Hardware monitoring, Multiple Temperature Feature, Q-Flash Update Bios</li> <li>- Memory: 64GB DDR4 (2 x 32GB) or higher</li> <li>- Video: 8GB GPU at least 200 GB/sec memory bandwidth, Direct X 11 Compliant, 3x video port output</li> <li>- Dual Drive: SSD NVME 500GB HD: 6TB 540 RPM or faster</li> <li>- 850 watts true rated power supply 220VAC 60Hz</li> <li>- ATX casing Mid/Full Tower Form Factor, 4 RGB Fans</li> <li>- Dual Monitor WQHD, 34" 21:9 screen ratio, 144Hz refresh rate, 220VAC 60Hz</li> <li>- Wired full sized mechanical keyboard</li> <li>- Mouse</li> <li>- Includes</li> <li>+ Wifi Dongle/Card installed in CPU supports multiple band (i.e 5G, 2.4G)</li> <li>+ Bluetooth 5.1 Dongle/Card installed in the CPU or higher</li> <li>+ Windows 11 Professional with installation/recovery media</li> <li>+ 1080P USB Webcam</li> <li>+ Bluetooth over the ear, Active Noise Cancellation Headset</li> <li>- With OS installation</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
5	IT Equipment	05-004	Tablet for illustration and light video editing	<ul style="list-style-type: none"> <li>- M1 chipset or higher</li> <li>- Wifi + Cellular</li> <li>- 512GB or higher</li> <li>- 12.9-inch, retina display or better</li> <li>- ProMotion technology</li> </ul> Includes: <ul style="list-style-type: none"> <li>- Additional 1-year manufacturer's extended warranty</li> <li>- Keyboard</li> <li>- Pencil 2</li> <li>- Power supply</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes
5	IT Equipment	05-005	Ultralight Laptop	<ul style="list-style-type: none"> <li>- M2 chip with 8-core CPU, 10-core GPU, 16-core Neural Engine</li> <li>- 16GB unified memory</li> <li>- 2TB SSD storage</li> <li>- macOS newest version</li> <li>- 13.6-inch Liquid Retina display with True Tone</li> <li>- Starlight finish</li> <li>- 1080p FaceTime HD camera</li> <li>- MagSafe 3 charging port</li> <li>- Two Thunderbolt / USB 4 ports</li> <li>- 100V to 240V AC, 50Hz to 60Hz</li> </ul> Includes: <ul style="list-style-type: none"> <li>67W USB-C Power Adapter</li> <li>Backlit Magic Keyboard with Touch ID - US English</li> <li>USB-C to MagSafe 3 Cable (2m)</li> <li>Magic Mouse</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
5	IT Equipment	05-006	Adobe Creative Cloud All Apps	<ul style="list-style-type: none"> <li>• OS: Multiple Platform</li> <li>• Language: Multi-Asian Language</li> <li>• Product Type: Team Licensing</li> <li>• Duration: 3 Years</li> <li>• 1-user per license</li> <li>• Includes 2 weeks training on the use of different adobe products as applied in photo editing, video editing, illustration, graphic design and layout for branding and marketing materials</li> </ul>	Software	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes
5	IT Equipment	05-007	Microsoft Office 365	<p>For Windows and MAC 2-6 users per license 5-year subscription</p>	Software	Evaluation of Brochure with picture and/or data sheet and training proposal	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> <li>- 24 hr burn-in test</li> </ul>	Yes

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\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

# Technical Specifications

**Lot 6**

**: IT Networks**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Local Area Network (LAN) Installation and Configuration - RTC-NCR	Kindly refer to the technical specifications attached as <b>Annex D6</b> .	1	lot			

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Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
**Name of Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of Authorized Representative**

\_\_\_\_\_  
**Date**



## ANNEX D6

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
6	IT Networks	06-001	Local Area Network (LAN) Installation and Configuration - RTC-NCR	Refer to Technical Specification of Item Code 06-001	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



## TECHNICAL SPECIFICATION

<b>Name of The Equipment</b>	<b>Local Area Network (LAN) Installation and Configuration - RTC-NCR</b>
<b>Item Code</b>	06-001
<b>Technology Area(s)</b>	IT Networks

**SITE: RTC-NCR, East Service Rd., Fort Bonifacio, Taguig**

### Local Area Network (LAN)

- **Access Point**
  - 4x4 Wi-Fi 6 Access Point (5)
  - 3Y FC NBD Exch Instant ON AP SVC (5)
  - 48G 2XGT 2SFP+ Switch (5)
  
- **Switch**
  - 24G 2XGT 2SFP+ Switch (1)
  - 24G 2XGT 2SFP+ SVC (1)
  - Power Cord - U.S. localization (1)
  
- **Switch**
  - 40p CL4 8p CL6 PoE 2XGT 2SFP+ 600W Switch (2)
  - 48G 2XGT 2SFP+ 600W SVC (2)
  - Power Cord – U.S. localization (2)
  
- **Switch**
  - 24G 20p CL4 4p CL6 PoE 2XGT 2SFP+ 370W Switch (1)
  - 24G 2XGT 2SFP+ 370W SVC (1)
  - Power Cord – U.S. localization (1)
  
- **Cable**
  - 10G SFP+ to SFP+ 1m DAC Cable (3)
  - 10G SFP+ to SFP+ 3m DAC Cable (1)

### Closed-Circuit Television (CCTV)

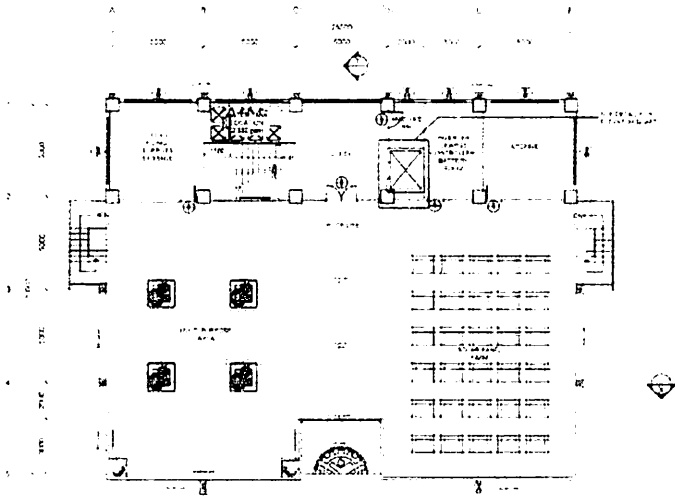
- **Bullet Type Camera (8 units)**
  - 2 MP Resolution
  - 1/2.8" Progressive Scan CMOS
  - H.265+/H.265/H.264+/H.264/MJPEG
  - Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR
  - 25fps/ 30fps (1920×1080)
  - VCA functions



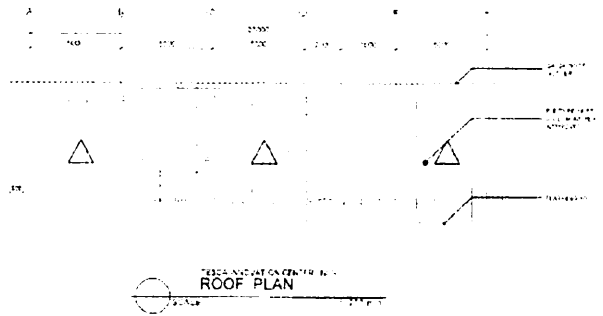
- 3 streams
  - 3D DNR, BLC, ICR, EXIR
  - DC12V&PoE
  - Built-in micro SD/SDHC/SDXC slot
  - HIK-Connect cloud service
  - Built-in microphone and speaker, Audio/Alarm I/O
- **Dome Turret Type Camera (10 units)**
    - 2 MP Resolution
    - 1/2.8" Progressive Scan CMOS
    - H.265+/H.265/H.264+/H.264/MJPEG
    - Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR
    - 25fps/ 30fps (1920×1080)
    - VCA functions
    - 3 streams
    - 3D DNR, BLC, ICR, EXIR
    - DC12V&PoE
    - Built-in micro SD/SDHC/SDXC slot
    - HIK-Connect cloud service
    - Built-in microphone and speaker, Audio/Alarm I/O
- **32 Channel NVR (1 unit)**
    - 320 Mbps Bit Rate Input Max (up to 32-ch IP video)
    - 4 SATA Interfaces
    - Up to 8TB per HDD
    - alarm I/O: 16/8
    - 1.5U case
- **10TB HDD (3 pcs)**
    - Enterprise Capacity 3.5 HDD
    - 7200RPM
    - 256MB
    - Sata-6gpbs







TRUCK TERMINAL CENTER BLDG.  
ROOF DECK FLOOR PLAN



TRUCK TERMINAL CENTER BLDG.  
ROOF PLAN

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
**Name of Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of Authorized Representative**

\_\_\_\_\_  
**Date**

# Technical Specifications

**Lot 7 : Security Camera System**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-NCR	Kindly refer to the technical specifications attached as <b>Annex D7.</b>	1	lot			
2	Closed-Circuit Television (CCTV) Installation and Configuration - PTC-Urdaneta		1	lot			
3	Closed-Circuit Television (CCTV) Installation and Configuration - ISAT		1	lot			
4	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-Mariveles		1	lot			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D7.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



# ANNEX D7

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
7	Security Camera System	07-001	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-NCR	<ul style="list-style-type: none"> <li>• Bullet Type Camera (8 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li> </ul> <ul style="list-style-type: none"> <li>• Dome Turret Type Camera (10 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li> </ul> <ul style="list-style-type: none"> <li>• 32 Channel NVR (1 unit)</li> <li>- 320 Mbps Bit Rate Input Max (up to 32-ch IP video)</li> <li>- 4 SATA Interfaces</li> <li>- Up to 8TB per HDD</li> <li>- alarm I/O: 16/8</li> <li>- 1.5U case</li> </ul> <ul style="list-style-type: none"> <li>• 10TB HDD (3 pcs)</li> <li>- Enterprise Capacity 3.5 HDD</li> <li>- 7200RPM</li> <li>- 256MB</li> <li>- Sata-6gpbs</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
7	Security Camera System	07-002	Closed-Circuit Television (CCTV)	<ul style="list-style-type: none"> <li>• Bullet Type Camera (8 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> </ul>	Equipment	Evaluation of Brochure with	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> </ul>	Yes

# ANNEX D7

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
			Installation and Configuration - PTC-Urdaneta	<ul style="list-style-type: none"> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li>   <li>• Dome Turret Type Camera (10 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li>   <li>• 32 Channel NVR (1 unit)</li> <li>- 320 Mbps Bit Rate Input Max (up to 32-ch IP video)</li> <li>- 4 SATA Interfaces</li> <li>- Up to 8TB per HDD</li> <li>- alarm I/O: 16/8</li> <li>- 1.5U case</li>   <li>• 10TB HDD (3 pcs)</li> <li>- Enterprise Capacity 3.5 HDD</li> <li>- 7200RPM</li> <li>- 256MB</li> <li>- Sata-6gbps</li> </ul>		picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	
7	Security Camera System	07-003	Closed-Circuit Television (CCTV) Installation and Configuration - ISAT	<ul style="list-style-type: none"> <li>• Bullet Type Camera (6 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

**ANNEX D7**

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
				<ul style="list-style-type: none"> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li>   <li>• Dome Turret Type Camera (5 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li>   <li>• 32 Channel NVR (1 unit)</li> <li>- 320 Mbps Bit Rate Input Max (up to 32-ch IP video)</li> <li>- 4 SATA Interfaces</li> <li>- Up to 8TB per HDD</li> <li>- alarm I/O: 16/8</li> <li>- 1.5U case</li>   <li>• 10TB HDD (2 pcs)</li> <li>- Enterprise Capacity 3.5 HDD</li> <li>- 7200RPM</li> <li>- 256MB</li> <li>- Sata-6gbps</li> </ul>				
7	Security Camera System	07-004	Closed-Circuit Television (CCTV) Installation and Configuration - RTC-Mariveles	<ul style="list-style-type: none"> <li>• Bullet Type Camera (6 units)</li> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> </ul>	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

# ANNEX D7

Lot No.	Lot Title	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
				<ul style="list-style-type: none"> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li> <li>• Dome Turret Type Camera (5 units)                             <ul style="list-style-type: none"> <li>- 2 MP Resolution</li> <li>- 1/2.8" Progressive Scan CMOS</li> <li>- H.265+/H.265/H.264+/H.264/MJPEG</li> <li>- Powered by Darkfighter technology, Color: 0.002 lux @ (F1.4, AGC ON), 0 lux with IR</li> <li>- 25fps/ 30fps (1920×1080)</li> <li>- VCA functions</li> <li>- 3 streams</li> <li>- 3D DNR, BLC, ICR, EXIR</li> <li>- DC12V&amp;PoE</li> <li>- Built-in micro SD/SDHC/SDXC slot</li> <li>- HIK-Connect cloud service</li> <li>- Built-in microphone and speaker, Audio/Alarm I/O</li> </ul> </li> <li>• 32 Channel NVR (1 unit)                             <ul style="list-style-type: none"> <li>- 320 Mbps Bit Rate Input Max (up to 32-ch IP video)</li> <li>- 4 SATA Interfaces</li> <li>- Up to 8TB per HDD</li> <li>- alarm I/O: 16/8</li> <li>- 1.5U case</li> </ul> </li> <li>• 10TB HDD (2 pcs)                             <ul style="list-style-type: none"> <li>- Enterprise Capacity 3.5 HDD</li> <li>- 7200RPM</li> <li>- 256MB</li> <li>- Sata-6gbps</li> </ul> </li> </ul>				

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

# Technical Specifications

Lot 8

: Office Equipment and Furniture

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Computer Table	Kindly refer to the technical specifications attached as Annex D8.	52	pc			
2	Trainer table		27	pc			
3	Steel Square Legs Table		7	pc			
4	Gas Lift Chair		129	pc			
5	Conference Table, 6-seater		2	set			
6	Conference Table, 8-seater		1	pc			
7	Conference Table, 12-seater		1	set			
8	Conference Table, 14-seater		4	pc			
9	Conference Table, 16-seater		1	pc			
10	Single cubicle workstation		16	set			
11	4-pax Office Workstation		14	set			
12	L-shape Table		16	pc			
13	Collapsible Display Board		15	pc			
14	Movable White Board		14	pc			
15	Wall Mounted White Board		10	pc			
16	Wall Mounted White Board, 4' x 8'		2	pc			

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
17	Panel Divider	Kindly refer to the technical specifications attached as <b>Annex D8.</b>	2	pc			
18	Locker Cabinet		12	pc			
19	Vertical Filing Cabinet		26	pc			
20	Chair		350	pc			
21	Gang Chair		8	pc			
22	Trainer table, long		50	pc			
23	Foldable Training Table		20	pc			
24	5 layer open shelf cabinet		35	pc			
25	5-tier Collapsible Metal Rack		17	pc			
26	Full Height Glass Sliding Door Cabinet		17	pc			
27	Glass Cabinet		16	pc			
28	Tool Cabinet		1	pc			
29	Storage Cabinet		7	pc			
30	Preparation Table, 2 layers		10	pc			
31	Stool chair with backrest		75	pc			
32	Stool chair		50	pc			
33	Guest Chair		3	pc			
34	Guest Chair with armrest	28	pc				



No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
35	4-Layer Lateral Filing Cabinet	Kindly refer to the technical specifications attached as Annex D8.	20	pc			
36	Executive Chair		22	pc			
37	Arm Desk		25	pc			
38	Reception Desk		4	pc			
39	Stage Platform		1	set			
40	Axial Exhaust Fan		7	unit			
41	Ceiling Fan		19	unit			

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Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



# ANNEX D8

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-001	Computer Table	<ul style="list-style-type: none"> <li>• Dimension (LxW): 1200 x 600 mm</li> <li>• Material: MFC Worktop in Laminate Finish</li> <li>• Adjustable height: 2-lifting column for height in 700-1180mm, 2mm thick Rectangular steel tube, 4-preset LED memory controller</li> <li>• Motor: Single motor, 90-230V, speed in at least 20mm/s</li> <li>• 4-hidden movable wheels</li> <li>• Steel Legs in Powder Coat Finish</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes
8	Office Furniture and Equipment	08-002	Trainer table	<ul style="list-style-type: none"> <li>• Dimension: W47.25" x D24" x H29.75"</li> <li>• Material: MDF Worktop in Laminate Finish, Metal modesty panel and cabinet</li> <li>• With keyboard drawer and and one 3-layer mobile cabinet with lock</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-003	Steel Square Legs Table	<ul style="list-style-type: none"> <li>• Dimension: 120 x 60 x 74 cm</li> <li>• Material: Wood Panel, Color: Maple</li> <li>• Steel Legs in Powder Coat Finish</li> <li>• 2-cable management portholes</li> <li>• 4-leveling glides on legs</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-004	Gas Lift Chair	<ul style="list-style-type: none"> <li>• Midback chair with armrest</li> <li>• Material: Fabric seat and mesh back</li> <li>• Armrest and starbase</li> <li>• Gas Lift: 75mm - 85mm</li> <li>• Caster Type: Polypropylene Plastic</li> <li>• Chair Seating Capacity: 120-130kgs</li> <li>• Tilt-Lock Function</li> <li>• Pneumatic Height Adjustment</li> <li>• 360° Swivel Function</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-005	Conference Table, 6-seater	6-seater Modular trapezoid Laminated MDF top, maple color, 1-1/8" thick Metal round legs, silver Over-all Dimension: 290Wx240Dx75H cm	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-006	Conference Table, 8-seater	8-seater, center-fold Tabletop: 1" thick, beech color, manufactured wood with thermally-fused melamine laminate Legs: steel chrome finish Base: trestle Overall Dimension: 30" H x 80" L x 40" D With built-in power bars and USB connections Castor wheels, lockable	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-007	Conference Table, 12-seater	1-pc Table: - Dimension: Length 300-320cm x Width 130cm x Height 75cm - 12-seater - 3 legs - Color and material of table top and legs: Mahogany, engineered wood table top  12-pc Chair: - Dimension: 103(H) x 49(W) x 63(D) cm - Seat height: 50 cm - Seat depth: 44 cm - Mahogany wood with PU leather back and seat	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-008	Conference Table, 14-seater	<ul style="list-style-type: none"> <li>• 14 pax Conference Table</li> <li>• Main Table: 3600mm L x 1200mm W x 750mm H</li> <li>• Finish: E1 standard, beech color</li> <li>• Top: 50mm thick board</li> <li>• Sidings in 2mm PVC edge band</li> <li>• Boat-shaped top</li> <li>• Wire management (optional)</li> <li>• With mid laminate accent</li> <li>• Metal legs</li> <li>• Adjustable feet leveler</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-009	Conference Table, 16-seater	<ul style="list-style-type: none"> <li>• 16 pax Conference Table</li> <li>• Main Table: 5400mm L x 600mm D x 2400mm W x 750mm Ht</li> <li>• Finish: E1 standard, walnut color</li> <li>• Top: 25mm thick board</li> <li>• Sidings in 2mm PVC edge band</li> <li>• Wire management (optional)</li> <li>• 8 free standing tables</li> <li>• Metal legs in powder coated finish</li> <li>• Adjustable feet leveler</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-010	Single cubicle workstation	<p>Fabric Partition with Frosted Glass</p> <ul style="list-style-type: none"> <li>- 120H x 120W cm Front Panel</li> <li>- 120H x 60W cm Side Panel</li> <li>- 20W x 60D cm Table Top</li> </ul> <p>Dimension</p> <p>Blue Color Fabric, light gray tabletop</p> <p>4.5cm Thickness Beige Aluminum Cappings</p>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-011	4-pax Office Workstation	<ul style="list-style-type: none"> <li>• 4 pax office workstation</li> <li>• Size for 1 pax table: Main Table: 1200mm L x 600mm D x 750mm H Over all dimension: 2400mm L x 1200mm D x 750mm H</li> <li>• Structure: E1 Moisture Resistant Board</li> <li>• Finish: E1 standard</li> <li>• Sidings in 2mm PVC edge band</li> <li>• Legs: 1 x 3" metal legs in 2mm thick customized powder coated finish</li> <li>• With built in 1 wire management PVC grommet</li> <li>• Metal legs</li> <li>• Adjustable feet leveler</li> <li>• (2) Front Removable Screen panel in 300mm H</li> <li>• Acoustic panel in 12mm thick in beveled edge with white metal clip holder</li> <li>• Material: 100% polyester fiber</li> <li>• Sound absorbing</li> <li>• Tackable with pins suitable for office note reminders</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-012	L-shape Table	<ul style="list-style-type: none"> <li>• Main Table: L120 x W55 x H74 cm</li> <li>• Side Table: L100 x W55 x H740 mm</li> <li>• wood top, steel frame with adjustable leg pads</li> <li>• Grommet Hole with Cable Spine Management</li> <li>• Without modesty panel</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-013	Collapsible Display Board	Refer to Technical Specification of Item Code 08-013	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-014	Movable White Board	<ul style="list-style-type: none"> <li>● Overall Dimension: 36" x 48"</li> <li>● Writing Surface Size: 34"x 46"</li> <li>● Both sides magnetic drywipe, 360 rotatable and lockable when in position</li> <li>● With 4 castors, 2 of the 4 are lockable</li> <li>● Board material: Porcelain</li> <li>● Aluminum frame and stand, include pentray</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-015	Wall Mounted White Board	<ul style="list-style-type: none"> <li>● Overall Dimension: 3' x 4'</li> <li>● Wall mounted</li> <li>● Magnetic drywipe</li> <li>● Board material: Porcelain</li> <li>● Aluminum frame, include pentray</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-016	Wall Mounted White Board, 4' x 8'	<ul style="list-style-type: none"> <li>● Overall Dimension: 4' x 8'</li> <li>● Wall mounted</li> <li>● Magnetic drywipe</li> <li>● Board material: Porcelain</li> <li>● Aluminum frame, include pentray</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-017	Panel Divider	Refer to Technical Specification of Item Code 08-017	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-018	Locker Cabinet	<ul style="list-style-type: none"> <li>● 9-door locker</li> <li>● 3-Layer Utility Cabinet</li> <li>● Material: Steel Metal</li> <li>● Color: Powder coated Light Gray</li> <li>● Dimension: W900-1000 x D400-500 x H1850-2000 mm</li> <li>● Gauge: 22mm</li> <li>● with hasp provision for padlock and built-in locking mechanism</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-019	Vertical Filing Cabinet	<ul style="list-style-type: none"> <li>● Material: Steel</li> <li>● 4 drawers</li> <li>● Centralized lock</li> <li>● Dimension: W452 x D620 x L1331 mm</li> <li>● Color: Off White</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-020	Chair	<ul style="list-style-type: none"> <li>● Monoblock Chair</li> <li>● Material: High Grade Plastic</li> <li>● Stackable</li> <li>● Color: White</li> <li>● Seat Width: 383 mm</li> <li>● Seat Height: 446 mm</li> <li>● Thickness: 45 mm</li> <li>● Seat Depth: 330 - 400 mm</li> <li>● Backrest Height: 800 - 900 mm</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-021	Gang Chair	<ul style="list-style-type: none"> <li>● 5-seater</li> <li>● L163*W62*H76 (cm)</li> <li>● Seat Width: 46CM</li> <li>● Arm and leg are 1.0mm metal chrome</li> <li>● Gross Weight 26 KG</li> <li>● Weight-bearing 150KG per seat</li> <li>● Gray</li> <li>● Materials: Leg frames are steel with chrome plated finish, beam section steel, powder coated</li> <li>● Metal</li> <li>● Backrest height: 52 cm</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-022	Trainer table, long	2 layer folding table 140x60x75 cm Steel frame black Wood top mahogany, 1 inch thick With 4-adjustable feet, double spring design	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-023	Foldable Training Table	MDF top and modesty, Color: customized, flat edge Steel frame, Color: Gray Size: 140cm L x 50cm W x75cm H Two-layer With 4 caster wheels	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-024	5 layer open shelf cabinet	Dimension: 1850(H) x 900(W) x 400(D) mm 5 Layer open shelf, adjustable shelf 0.6mm thickness Steel material Textured light gray	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-025	5-tier Collapsible Metal Rack	<ul style="list-style-type: none"> <li>● Width: 90 cm</li> <li>● Depth 40 cm +/-10%</li> <li>● Height: 180 cm +/-10% (floor to top edge of the shelves)</li> <li>● Boltless Rack</li> <li>● 4 layers of metal shelving</li> <li>● Metal Frame Thickness: 1.5 mm</li> <li>● Color: Textured Light Grey</li> <li>● 3/4 inches +/-10% wooden deck</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A



Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-026	Full Height Glass Sliding Door Cabinet	<ul style="list-style-type: none"> <li>• Steel Cabinet with Glass Sliding Door</li> <li>Width: 450 cm (outer side of the cabinet)</li> <li>Depth: 90 cm +/-10% (outer side of the cabinet)</li> <li>Height: 185 cm +/- 10% (from floor to top edge of the cabinet)</li> <li>• A4 /F4 file storage</li> <li>• 4 adjustable shelves, 5 levels</li> <li>• Centralized Locking Mechanism</li> <li>• Color: Textured Light Grey</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-027	Glass Cabinet	<ul style="list-style-type: none"> <li>• Dimension (WDH): 900 mm x 400 mm x 1850mm</li> <li>• All-Metal Body Gauge 20</li> <li>• 2 upper Swing Glass Door</li> <li>• 2 metal swing door at base</li> <li>• 2 Key-Lock Mechanism</li> <li>• 3 layer adjustable shelves with reinforcing ribs</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-028	Tool Cabinet	<p>Metal Cabinet</p> <p>Dimension:</p> <p>Height: 1800 mm</p> <p>Width: 1000 mm (outer side of the cabinet)</p> <p>Depth: 500 mm +/-10% (outer side of the cabinet)</p> <p>2 layer adjustable shelves</p> <p>Hanging panel design, upper part inside of the cabinet and each door</p> <p>3 drawers with divider</p> <p>2-swing door with lock</p>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-029	Storage Cabinet	<ul style="list-style-type: none"> <li>• Stainless steel</li> <li>• With non-slip rubber foot</li> <li>• 2 layers</li> <li>• Dimension: 180 x 60 x 80 cm</li> <li>• Thickness: 1.0 mm</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-030	Preparation Table, 2 layers	<ul style="list-style-type: none"> <li>● Stainless steel</li> <li>● With non-slip rubber foot</li> <li>● 2 layers</li> <li>● Dimension: 180 x 60 x 80 cm</li> <li>● Thickness: 1.0 mm</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-031	Stool chair with backrest	<ul style="list-style-type: none"> <li>● Bar chair with backrest, PU leather</li> <li>● Circle reinforcement/seat</li> <li>● Black</li> <li>● Pulley backrest</li> <li>● Dimension: <ul style="list-style-type: none"> <li>- Max height: 74 cm</li> <li>- Lifting height: 45 - 57 cm</li> <li>- Back width: 32 cm</li> </ul> </li> <li>● Metal frame</li> <li>● Welded joint</li> <li>● 5 caster wheels</li> <li>● With circular footrest</li> <li>● Max capacity: 90 kgs</li> <li>● 360° Swivel Function</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-032	Stool chair	<ul style="list-style-type: none"> <li>● Circle reinforcement/seat</li> <li>● Stackable</li> <li>● Material: Stainless steel</li> <li>● 4 legs, double tube</li> <li>● Dimension: 29 x 29 x 47 cm</li> <li>● Welded joint</li> <li>● Non-slip rubber foot</li> <li>● Chair Seating Capacity: 450-500kgs</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-033	Guest Chair	<ul style="list-style-type: none"> <li>• Midback chair</li> <li>• Stackable</li> <li>• No armrest</li> <li>• Faux Leather Upholstery, Color: Black</li> <li>• Chrome Steel Frame with rubber footing, Color: Black</li> <li>• Seat dimensions: 18 - 19"W x 16 - 17"D</li> <li>• Back dimensions: 18 - 19"W x 13 - 14"H</li> <li>• Seat height 18"</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-034	Guest Chair with armrest	<ul style="list-style-type: none"> <li>• Dimension: 560 mm L x 600 mm W x 815 mm H</li> <li>• Mid Back Leather Finish Chair</li> <li>• 4 Steel Chrome Finish Legs with rubber footing</li> <li>• Fixed armrest</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-035	4-Layer Lateral Filing Cabinet	<p>Dimension: W 900mm x D 450mm x H 1331 mm</p> <p>4 drawer lateral cabinet</p> <p>Central lock</p> <p>Material: Steel</p> <p>A4/F4 File Storage</p> <p>Color: White drawers and brown/bronze sides</p>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-036	Executive Chair	<ul style="list-style-type: none"> <li>● High back chair with armrest</li> <li>● Material: Polyurethane Upholstered seat and back</li> <li>● Armrest and starbase</li> <li>● Gas Lift: 75mm - 85mm</li> <li>● Caster Type: Polypropylene Plastic</li> <li>● Chair Seating Capacity: 120-130kgs</li> <li>● Tilt-Lock Function</li> <li>● Pneumatic Height Adjustment</li> <li>● 360° Swivel Function</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-037	Arm Desk	<p>Foldable with writing desk Dimension:</p> <ul style="list-style-type: none"> <li>- Overall height: 83 cm</li> <li>- Ground to seat height: 45 cm</li> <li>- Seat: 43 x 37 cm</li> <li>- Back: 43 cm</li> <li>- Writing desk: 60 x 36.5 cm</li> </ul> <p>Material: Plastic back and writing desk, steel frame Color: blue With bottom storage Non-slip foot</p>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A
8	Office Furniture and Equipment	08-038	Reception Desk	Refer to Technical Specification of Item Code 08-038	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	N/A

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
8	Office Furniture and Equipment	08-039	Stage Platform	1 level Dimension: 4' x 4' Max. height: 32" Min. height: 16" Thickness: 2" Capacity: 200 lbs Foldable Material: Metal frame black, Gray carpet top 2 caster wheels, 2 with rubber footing	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-040	Axial Exhaust Fan	Split pipe exhaust fan Wind Wheel Diameter: 150 mm Air Volume: 330 m/h Power: 34 W Static Pressure: 130 Pa Noise: (dB(A)): 53 Pipe Size (mm): Medium 150	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A
8	Office Furniture and Equipment	08-041	Ceiling Fan	Orbit fan, 3 blades 16" plastic blade 75W, 220-240 V, 60 Hz 4 speed remote switch White With thermal fuse	Furniture	Evaluation of Brochure with picture and/or data sheet	- Checking the conformity with the quantity including parts and accessories - Checking the conformity of hardware vis-a-vis offered specifications - Functionality testing	N/A

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date

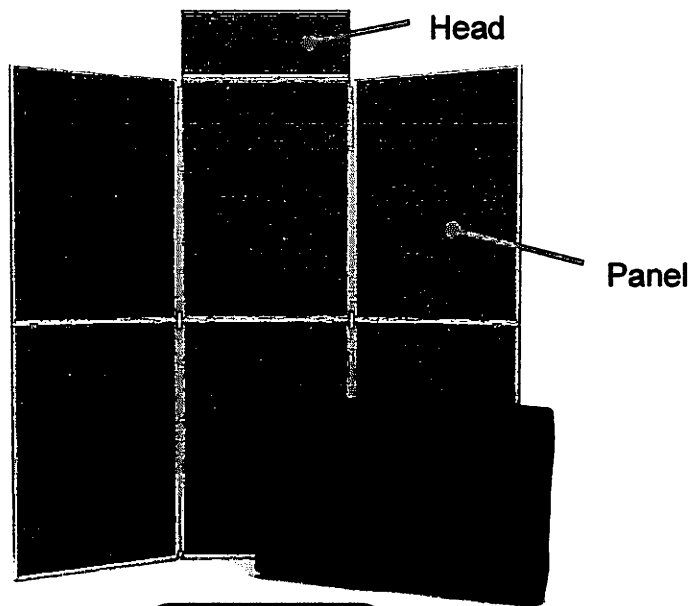
## TECHNICAL SPECIFICATION

<b>Name of The Furniture</b>	<b>Collapsible Display Board</b>
<b>Item Code</b>	08-013
<b>Lot</b>	Office Furniture

**Specification:**

- 6 Panel display board
- Collapsible
- Aluminum Frame
- Each panel measures:
  - Width: 600mm +/-10%
  - Height: 900 mm +/- 10%
- Fabric covered, upholstered both sides. Color: Royal Blue
- Gear edge hinge system so frame can be positioned at any angle
- With Header Panel

**Sample Image:**



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
**Name of  
Company/Bidder**

\_\_\_\_\_  
**Signature over Printed Name of  
Authorized Representative**

\_\_\_\_\_  
**Date**

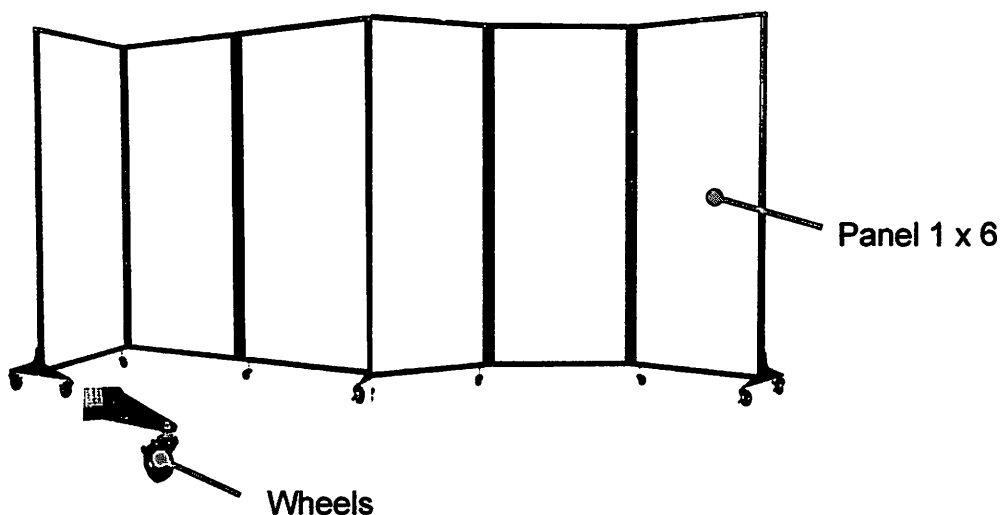
## TECHNICAL SPECIFICATION

<b>Name of The Furniture</b>	<b>Panel Divider</b>
<b>Item Code</b>	08-017
<b>Lot</b>	Office Furniture

**Specification:**

- 6 Panel partition board
- Collapsible
- Aluminum Frame
- Each panel measures:
  - Width: 1.67 ft +-10%
  - Height: 6 ft +- 10%
- Fabric covered, upholstered both sides. Color: White
- Gear edge hinge system so frame can be positioned at any angle
- With wheels, lockable

**Sample Image:**



*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## TECHNICAL SPECIFICATION

<b>Name of The Furniture</b>	<b>Reception Desk</b>
<b>Item Code</b>	08-038
<b>Lot</b>	Office Furniture

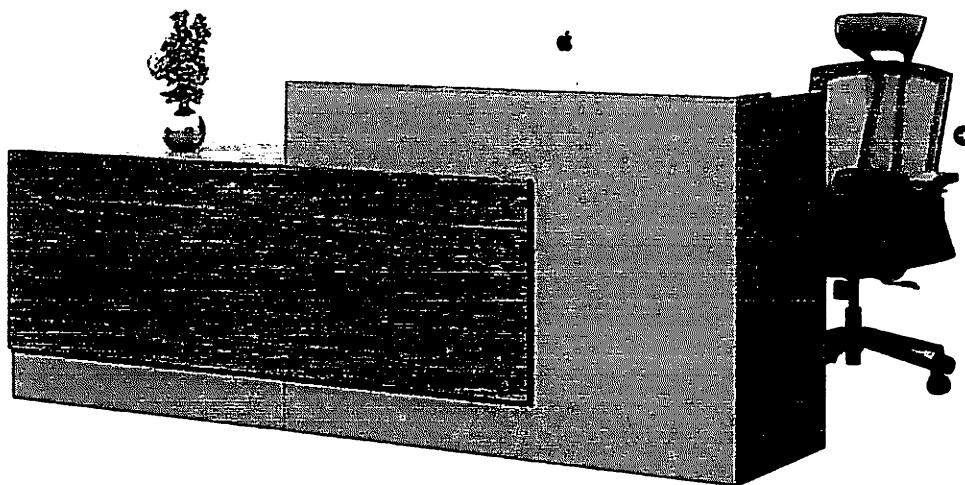
### Specification:

- Main Table: 2200mm L x 600mm D x 1100mm H
- Material: 25mm E1 Resistant Board + Plywood d
- Cabinet carcass in 18mm thick HPL laminated E1 board
- Sidings in 2mm PVC edge band

### Features:

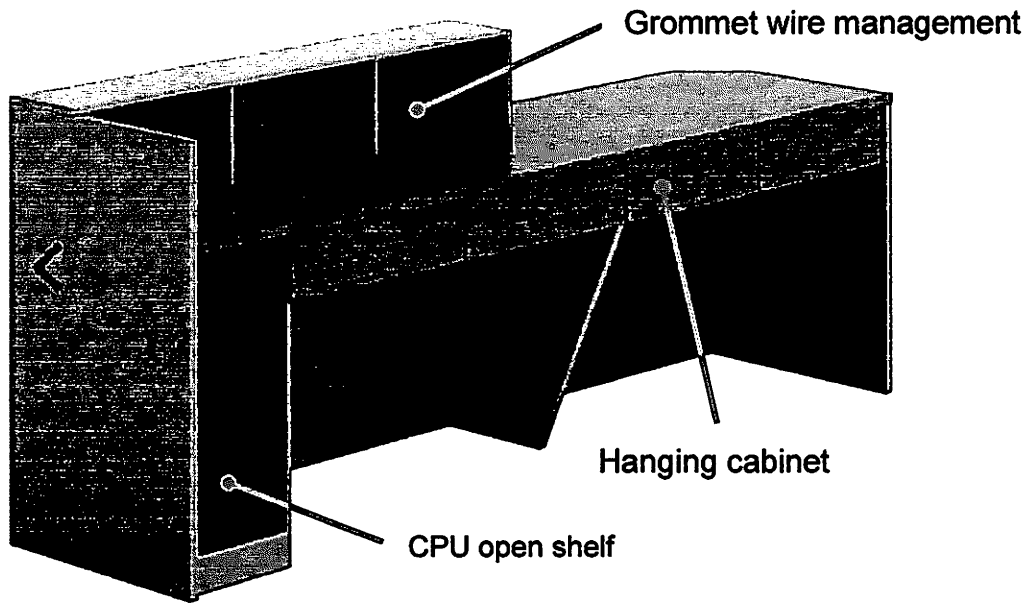
- With built in grommet wire management
- (4) Hanging Drawer cabinet with lock and key
- Full extension soft close drawer guide
- With 1 CPU open shelves storage
- Metal Brackets
- Adjustable feet leveler
- Installation and maintenance

### Sample Image:



Front view





Back view

*Picture for reference only*

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

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**Name of  
Company/Bidder**

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**Signature over Printed Name of  
Authorized Representative**

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**Date**

# Technical Specifications

**Lot 9**

**: Air Conditioning System**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	Kindly refer to the technical specifications attached as Annex D9.	43	set			
2	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted		27	set			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D9.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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## ANNEX D9

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
9	Air Conditioning System	09-001	Air Conditioning Unit, 2.5 HP Split Type- Floor Mounted	<ul style="list-style-type: none"> <li>• 2.5 hp</li> <li>• Split Type (Floor Mounted)</li> <li>• Inverter</li> <li>• Power Consumption: 200-2200W</li> <li>• Max Cooling Capacity: 20,500 kJ/h</li> <li>• Indoor Noise Level (Lo): 38-43 dB(A)</li> <li>• Indoor Air Flow (Hi): 635-700 cfm</li> <li>• Power Supply: 220-240 volts, 60 Hz, 1 phase</li> <li>• WiFi IOTS</li> <li>• supply, delivery, installation and commissioning</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> </ul>	Yes
9	Air Conditioning System	09-002	Air Conditioning Unit, 1.5 HP Split Type- Wall Mounted	<ul style="list-style-type: none"> <li>• 1.5 hp</li> <li>• Split Type (Wall Mounted)</li> <li>• Inverter</li> <li>• Power Consumption: 160-1890W</li> <li>• Max Cooling Capacity: 14,298 kJ/h</li> <li>• Indoor Noise Level (Lo): 31 dB(A)</li> <li>• Indoor Air Flow (Hi): 600 m3/h</li> <li>• Power Supply: 220-240 volts, 60 Hz, 1 phase</li> <li>• WiFi IOTS</li> <li>• supply, delivery, installation and commissioning</li> </ul>	Furniture	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking of specification and quantity (offered vs. actual)</li> <li>- Check package completeness</li> <li>- Functionality test</li> </ul>	Yes

**I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.**

\_\_\_\_\_  
Name of Company/Bidder

\_\_\_\_\_  
Signature over Printed Name of Authorized Representative

\_\_\_\_\_  
Date



# Technical Specifications

**Lot 10 : Transport Refrigeration**

No.	Item	Minimum Agency Specifications Unless Otherwise Specified	Qty	Unit	Statement of Compliance*	Make Brand / Model	Reference
1	Reefer Container/ Transport Refrigeration Unit	Kindly refer to the technical specifications attached as Annex D10.	2	unit			

\* Bidders must state here 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 Bidder's 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 applicable laws and issuances.

All tools, equipment, gadgets and electrically operated instruments should have Standard Manufacturers Manual and/or Datasheet/Specification Sheet/Brochure as indicated in Annex D10.

Instruction Manual is an instructional book or booklet that is supplied with almost all technologically advanced products such as electrical products.

Datasheet/Specification Sheet/Brochure is a document that summarizes the performance and other characteristics of a product, machine, component that comes along with the product from its release from the manufacturer.

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

<b>Name of Company/Bidder</b>	<b>Signature over Printed Name of Authorized Representative</b>	<b>Date</b>
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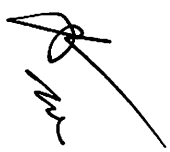
**ANNEX D10**

Lot No.	Lot	Code	Item	Agency Specification	Classification	Test Procedure (Post Evaluation)	Test Procedure (Inspection and Acceptance)	English Manual
10	Transport Refrigeration	10-001	Reefer Container/ Transport Refrigeration Unit	Refrigerant: R290 Charge: 140g Max. Pressure: 26bar Rated Power: 1200W Supply Voltage: 24VDC Mod-Level: OA, OB, OC, OD, OE, OF, OG, OH Dimension: L 8 x W 4 x H 6 feet  Note: No vehicle included, container only	Equipment	Evaluation of Brochure with picture and/or data sheet	<ul style="list-style-type: none"> <li>- Checking the conformity with the quantity including parts and accessories</li> <li>- Checking the conformity of hardware vis-a-vis offered specifications</li> <li>- Functionality testing</li> </ul>	Yes

I hereby certify that the statement of compliance to the foregoing technical specifications are true and correct, otherwise, if found to be false either during bid evaluation or post-qualification, the same shall give rise to automatic disqualification of our bid.

\_\_\_\_\_

**Name of Company/Bidder**
**Signature over Printed Name of Authorized Representative**
**Date**



***Section VIII. Checklist of Technical and  
Financial Documents***

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class "A" Documents*

#### Legal Documents

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

#### Technical Documents

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

#### Financial Documents

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

### **Class "B" Documents**

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

#### **Other documentary requirements under RA No. 9184 (as applicable)**

- (i) *[For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos]* Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (j) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

## **II. FINANCIAL COMPONENT ENVELOPE**

- (a) Original of duly signed and accomplished Financial Bid Form; **and**
- (b) Original of duly signed and accomplished Price Schedule(s).



**STATEMENT OF (i) ONGOING CONTRACTS (ii) AWARDED BUT NOT YET STARTED CONTRACTS**

*This is to certify that \_\_\_\_\_ (company) \_\_\_\_\_ has the following ongoing and awarded but not yet started contracts:*

<b>Contracting Party</b>	<b>Name of Contract</b>	<b>Date and Status of the Contract</b>	<b>Kind of Goods</b>	<b>Amount of Contract</b>	<b>Value of Outstanding Contracts</b>	<b>Date of Delivery</b>	<b>Purchase Order Number/s or Date of Contract/s</b>

\_\_\_\_\_  
**Name and Signature of  
 Authorized Representative**

\_\_\_\_\_  
**Date**

**\*Instructions:**

- a) *State all ongoing contracts including those awarded but not yet started (government and private contracts which may be similar or not similar to the project called for bidding) as of:*
  - i. *The day before the deadline of submission of bids.*
- b) *If there is no ongoing contract including awarded but not yet started as of the aforementioned period, state none or equivalent term.*
- c) *The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC) in case an NFCC is submitted as an eligibility document.*
- d) *"Name of Contract". Indicate here the Nature/ Scope of the Contract for easier tracking of the entries/ representations*

**STATEMENT OF SINGLE LARGEST COMPLETED CONTRACT SIMILAR TO THE CONTRACT TO BE BID**

*This is to certify that \_\_\_\_\_ (company) \_\_\_\_\_ has the following completed contracts within five (5) years prior to the date of submission and receipt of bids, a contract similar to the Project*

<b>Contracting Party</b>	<b>Name of Contract</b>	<b>Date of the Contract</b>	<b>Kind of Goods</b>	<b>Amount of Contract</b>	<b>Date of Delivery</b>	<b>Please submit any of the following attachment: a. Copy/ies of Contract/s or Purchase Order/s; <u>OR</u> b. Copy/ies of corresponding Sales Invoice/s; <u>OR</u> c. Copy/ies of Official Receipt/Cash Receipt/Collection Receipt; <u>OR</u> d. Certificate of Performance Evaluation</b>

\_\_\_\_\_  
Name and Signature of  
Authorized Representative

\_\_\_\_\_  
Date

**\* Instructions:**

a) Cut-off date as of:

(i) Up to the day before the deadline of submission of bids.

b) In the column under "Dates" indicate the dates of Delivery/ End-user's Acceptance and Official Receipt.

c) "Name of Contract". Indicate here the Nature/ Scope of the Contract for the Procuring Entity to determine the relevance of the entry with the Procurement at hand.

## **Bid Securing Declaration Form**

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REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_) S.S.

### **BID SECURING DECLARATION** **Invitation to Bid: [Insert Reference number]**

To: *[Insert name and address of the Procuring Entity]*

I/We<sup>2</sup>, the undersigned, declare that:

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

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<sup>2</sup> *Select one and delete the other. Adopt the same instruction for similar terms throughout the document.*

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

[Insert NAME OF BIDDER OR ITS AUTHORIZED REPRESENTATIVE]

[Insert Signatory's Legal Capacity]

Affiant

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

Witness my hand and seal this \_\_\_\_ day of [month] [year].

**NAME OF NOTARY PUBLIC**

Serial No. of Commission \_\_\_\_\_

Notary Public for \_\_\_\_\_ until \_\_\_\_\_

Roll of Attorneys No. \_\_\_\_\_

PTR No. \_\_\_\_\_ [date issued], [place issued]

IBP No. \_\_\_\_\_ [date issued], [place issued]

Doc. No. \_\_\_\_\_

Page No. \_\_\_\_\_

Book No. \_\_\_\_\_

Series of \_\_\_\_\_

\*The identification card shall be at least one of the acceptable proofs of identity as identified under the provisions of the 2014 Rules on Notarial Practice

"Sec. 12. Competent Evidence of Identity— The phrase "competent evidence of identity" refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual, such as but not limited to, passport, driver license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification:

The Board Resolution or Secretary's Certificate referring to the said Board Resolution designating the bidder's authorized representative and signatory need not specifically indicate the particular project where such authority is given provided that the said authority covers activities by TESDA.

## OMNIBUS SWORN STATEMENT (REVISED)

[shall be submitted with the Bid]

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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:]*

*[If a sole proprietorship:]* I am the sole proprietor or authorized representative of [Name of Bidder] with office address at [address of Bidder];

*[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:]*

*[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;

*[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:]*

*[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;

*[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;

*[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 responsibilities as a Bidder in compliance with the Philippine Bidding Documents, which includes:
  - a. Carefully examining all of the Bidding Documents;
  - b. Acknowledging all conditions, local or otherwise, affecting the implementation of the Contract;
  - c. Making an estimate of the facilities available and needed for the contract to be bid, if any; and
  - d. Inquiring or securing 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 the 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 deliver certain goods or services, to the prejudice of the public and the government of the Philippines pursuant to Article 315 of Act No. 3815 s. 1930, as amended, or the Revised Penal Code.**

IN WITNESS WHEREOF, I have hereunto set my hand this \_\_ day of \_\_, 20\_\_ at \_\_\_\_\_, Philippines.

*[Insert NAME OF BIDDER OR ITS  
AUTHORIZED REPRESENTATIVE]  
[Insert signatory's legal capacity]  
Affiant*

**[Jurat]**

*[Format shall be based on the latest Rules on Notarial Practice]*

*\*The identification card shall be at least one of the acceptable proofs of identity as identified under the provisions of the 2014 Rules on Notarial Practice*

*"Sec. 12. Competent Evidence of Identity — The phrase "competent evidence of identity" refers to the identification of an individual based on:*

*At least one current identification document issued by an official agency bearing the photograph and signature of the individual such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification;*

*The Board Resolution or Secretary's Certificate referring to the said Board Resolution designating the bidder's authorized representative and signatory need not specifically indicate the particular project where such authority is given provided that the said authority covers activities by TESDA.*

# JOINT VENTURE AGREEMENT

KNOW ALL MEN BY THESE PRESENTS:

This JOINT VENTURE AGREEMENT (hereinafter referred to as the "Agreement"), entered into this \_\_\_\_\_ day \_\_\_\_\_ of 20\_\_ at \_\_\_\_\_ City, Philippines by and among:

\_\_\_\_\_, a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at \_\_\_\_\_, represented by its \_\_\_\_\_, \_\_\_\_\_, hereinafter referred to as "\_\_\_\_\_";

- and -

\_\_\_\_\_, a domestic corporation duly organized, registered and existing under and by virtue of the laws of the Republic of the Philippines, with office address at \_\_\_\_\_, represented by its \_\_\_\_\_, \_\_\_\_\_, hereinafter referred to as "\_\_\_\_\_";

- and -

\_\_\_\_\_ a foreign corporation organized and existing under and by virtue of the laws of \_\_\_\_\_, represented by its \_\_\_\_\_, \_\_\_\_\_, hereinafter referred to as "\_\_\_\_\_";

(Henceforth collectively referred to as the "**Parties**")

## WITNESSETH: That

**WHEREAS**, the Technical Education and Skills Development Authority (TESDA) has recently published an Invitation to Apply for Eligibility and to Bid for the Supply and Delivery of \_\_\_\_\_ for the \_\_\_\_\_;

**WHEREAS**, the parties have agreed to pool their resources together to form the "\_\_\_\_\_ Joint Venture", hereinafter referred to as the Joint Venture, under the laws of the Philippines, for the purpose of participating in the abovementioned procurement of TESDA-CO;

NOW, THEREFORE, for and in consideration of the foregoing premises and the covenants hereto set forth, the Parties have agreed as follows:



**ARTICLE I  
ORGANIZATION OF THE JOINT VENTURE**

**SECTION 1. Formation** — The Parties do hereby agree and bind themselves to establish, form and organize a Joint Venture pursuant to the laws of the Republic of the Philippines, in order for the JV to carry on the purposes and objectives for which it is created;

**SECTION 2. Name** — The name and style under which the JV shall be conducted is “ \_\_\_\_\_”;

**SECTION 3. Principal Place of Business** — The JV shall maintain its principal place of business at \_\_\_\_\_;

**SECTION 4. Preparation and Documentation** — The Parties shall secure and/or execute such certifications, documents, deeds and instruments as may be required by the laws of the Republic of the Philippines for the realization of the JV and in compliance with the Project. Further, they shall do all other acts and things requisite for the continuation of the JV pursuant to applicable laws;

**SECTION 5.** The Joint Venture shall be represented by the \_\_\_\_\_ in all biddings, related procurement transactions and other official dealings that it shall enter into with the TESDA-CO and third parties, such transactions to include, among others, the submission of eligibility documents, bids, registration documents obtaining bonds, performing the principal contract in the event that the contract is awarded in favor of the Joint Venture, receipt of payment for goods delivered, and similar and related activities.

**SECTION 6.** The period of the Joint Venture shall begin upon execution of this Agreement and shall continue until the complete performance of its contractual obligations to TESDA-CO, as described in Article II hereof, or upon its termination for material breach of any term or condition of this Agreement, by service of a written statement in English on the other Party, not less than 90 days prior to the intended date termination

**ARTICLE II  
PURPOSE**

**SECTION 1.** The primary purpose of the Joint Venture is to participate in the public bidding to be conducted by the TESDA-CO Bids and Awards Committee for the supply and delivery of \_\_\_\_\_ for the \_\_\_\_\_.

**SECTION 2.** If the above-described contract/s is/are awarded to the Joint Venture, the Joint Venture shall undertake the performance thereof to TESDA-CO, and such other incidental activities necessary for the completion of its contractual obligations.

**ARTICLE III  
SOLIDARY LIABILITY OF THE PARTIES**

SECTION 1. In the performance of the contract/s that may be awarded to the Joint Venture by the TESDA-CO, and all other related activities/obligations, as described in Article II hereof, - the Parties bind themselves jointly and solidarily, in the concept of solidarily debtors, subject to the right of reimbursement, as provided in the relevant provisions of the Civil Code of the Philippines.

**ARTICLE IV  
CONTRIBUTION AND OTHER ARRANGEMENTS**

SECTION 1. Contribution — The Parties shall contribute the amount of \_\_\_\_\_ (Php ) to support the financial requirements of the Joint Venture, in the following proportion:

A.	-	P .00
B.	-	<u>P .00</u>
TOTAL		P .00

Additional contributions to the Joint Venture shall be made as may be required for contract implementation. In addition, shall contribute any labor and contract management requirements.

SECTION 2. Profit Sharing — The share of the Parties to the JV from any profit derived or obtained from the implementation and execution of the Project shall be distributed pro rata to each, in accordance with the contribution and resources each has provided to the JV;

SECTION 3. Liquidation and Distributions — Any sum remaining after deducting from the total of all moneys or benefits received for the performance of the contract, all costs incurred by the JV after award of the contract for the Project pursuant to the accounting practices established for the JV, shall be distributed in accordance with the relative balances in the accounts of each Party pursuant to Sec.1 of this Article upon completion, final accounting, termination and liquidation of the JV. In the event of liquidation and termination of JV, and after taking into account the shares of the Parties in all income, gain, deductions, expenses, and losses, should the account of a Party contain a negative balance, such Party shall contribute cash to the JV sufficient to restore the said balance to zero;

SECTION 4. Sharing of Burden of a Net Loss — In case a net loss is incurred, additional contributions shall be made by the Parties in accordance with their respective shares.

**ARTICLE V  
MISCELLANEOUS PROVISIONS**

**SECTION 1.** The provisions of the Instructions to Bidders, Supplemental Bid Bulletin, and other bidding documents issued by the TESDA-CO in relation to the contract described in Article II hereof, shall be deemed incorporated in this Agreement and made an integral part thereof.

**SECTION 2.** This Agreement shall be binding upon and inure to the benefit of the Parties and their respective-successors and assigns.

**SECTION 3.** The Parties herein are duly represented by their authorized officers.

**SECTION 4. Governing Law -** This Agreement shall be governed by and construed according to the laws of the Republic of the Philippines. Venue of any court action arising from this Agreement shall be exclusively laid before the proper court of the Philippines.

**IN WITNESS WHEREOF,** the parties have set their hands and affixed their signatures on the date and place first above-stated.

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Signed in the Presence of:

\_\_\_\_\_  
\_\_\_\_\_

ACKNOWLEDGMENT

REPUBLIC OF THE PHILIPPINES )
CITY/MUNICIPALITY OF \_\_\_\_\_ ) S.S.
PROVINCE OF (in the case of Municipality)

BEFORE ME, a Notary Public for and in the City/Municipality of \_\_\_ (indicate also the Province in the case of Municipality\_\_\_, this \_\_\_\_\_ day of \_\_\_\_\_ month & year) personally appeared the following:

Name ID Name, Number and Validity Date

Known to me and to me known to be the same persons who executed the foregoing instrument and they acknowledge to me that the same is their free and voluntary act and deed and that of the corporation(s) they represent.

This instrument refers to a Joint Venture Agreement consisting of \_\_\_\_\_ pages, including the page on which this Acknowledgement is written, and signed by the parties and their instrumental witnesses.

WITNESS MY HAND AND NOTARIAL SEAL on the place and on the date first above written.

NAME OF NOTARY PUBLIC
Serial No. of Commission \_\_\_\_\_
Notary Public for \_\_\_\_\_ until \_\_\_\_\_
Roll of Attorneys No. \_\_\_\_\_
PTR No. \_\_\_\_\_ [ date issued], [place issued]
IBP No. \_\_\_\_, [ date issued], [place issued]

Doc. No. \_\_\_\_\_
Page No. \_\_\_\_\_
Book No. \_\_\_\_\_
Series of \_\_\_\_\_.

Note:

"Sec. 12. Competent Evidence of Identity — The phrase "competent evidence of identity" refers to the identification of an individual based on:

At least one current identification document issued by an official agency bearing the photograph and signature of the individual such as but not limited to, passport, driver's license, Professional Regulations Commission ID, National Bureau of Investigation clearance, police clearance, postal ID, voter's ID, Barangay certification, Government Service and Insurance System (GSIS) e-card, Social Security System (SSS) card, Philhealth card, senior citizen card, Overseas Workers Welfare Administration (OWWA) ID, OFW ID, seaman's book, alien certificate of registration/immigrant certificate of registration, government office ID, certification from the National Council for the Welfare of Disabled Persons (NCWDP), Department of Social Welfare and Development (DSWD) certification.

**Bid Form for the Procurement of Goods**  
*[shall be submitted with the Bid]*

---

**BID FORM**

Date : \_\_\_\_\_  
Project Identification No. : \_\_\_\_\_

To: *[name and address of Procuring Entity]*

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or 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 PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

*[Insert this paragraph if Foreign-Assisted Project with the Development Partner:*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount and Purpose of Commission or gratuity
---------------------------	--

_____	_____
_____	_____

(if none, state "None" )

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 pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

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

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

**Price Schedule for Goods Offered from Abroad**  
*[shali be submitted with the Bid if bidder is offering goods from Abroad]*

**For Goods Offered from Abroad**

Name of Bidder \_\_\_\_\_ Project ID No. \_\_\_\_\_ Page \_\_\_ of \_\_\_

1	2	3	4	5	6	7	8	9
Item	Description	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place  (specify border point or place of destination)	Total CIF or CIP price per item  (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

**Price Schedule for Goods Offered from Within the Philippines**  
*[shall be submitted with the Bid if bidder is offering goods from within the Philippines]*

**For Goods Offered from Within the Philippines**

Name of Bidder \_\_\_\_\_ Project ID No. \_\_\_\_\_ Page \_\_\_ of \_\_\_

1	2	3	4	5	6	7	8	9	10
Item	Description	Country of origin	Quantity	Unit price EXW per item	Transportation and all other costs incidental to delivery, per item	Sales and other taxes payable if Contract is awarded, per item	Cost of Incidental Services, if applicable, per item	Total Price, per unit  (col 5+6+7+8)	Total Price delivered Final Destination  (col 9) x (col 4)

Name: \_\_\_\_\_

Legal Capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_



## **Performance Securing Declaration (Revised)**

*[If used as an alternative performance security but it is not required to be submitted with the Bid, as it shall be submitted within ten (10) days after receiving the Notice of Award]*

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REPUBLIC OF THE PHILIPPINES)  
CITY OF \_\_\_\_\_ ) S.S.

### **PERFORMANCE SECURING DECLARATION**

Invitation to Bid: [Insert Reference Number indicated in the Bidding Documents]  
To: [Insert name and address of the Procuring Entity]

I/We, the undersigned, declare that:

1. I/We understand that, according to your conditions, to guarantee the faithful performance by the supplier/distributor/manufacturer/contractor/consultant of its obligations under the Contract, I/we shall submit a Performance Securing Declaration within a maximum period of ten (10) calendar days from the receipt of the Notice of Award prior to the signing of the Contract.
2. I/We accept that: I/we will be automatically disqualified from bidding for any procurement contract with any procuring entity for a period of one (1) year for the first offense, or two (2) years **for the second offense**, upon receipt of your Blacklisting Order if I/We have violated my/our obligations under the Contract;
3. I/We understand that this Performance Securing Declaration shall cease to be valid upon:
  - a. issuance by the Procuring Entity of the Certificate of Final Acceptance, subject to the following conditions:
    - i. Procuring Entity has no claims filed against the contract awardee;
    - ii. It has no claims for labor and materials filed against the contractor; and
    - iii. Other terms of the contract; or
  - b. replacement by the winning bidder of the submitted PSD with a performance security in any of the prescribed forms under Section 39.2 of the 2016 revised IRR of RA No. 9184 as required by the end-user.

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

*[Insert NAME OF BIDDER OR ITS  
AUTHORIZED REPRESENTATIVE]  
[Insert signatory's legal capacity]  
Affiant*

**[Jurat]**  
*[Format shall be based on the latest Rules on Notarial Practice]*

**Contract Agreement Form for the Procurement of Goods (Revised)**  
*[Not required to be submitted with the Bid, but it shall be submitted within ten (10) days after receiving the Notice of Award]*

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**CONTRACT AGREEMENT**

THIS AGREEMENT made the \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_ between [name of PROCURING ENTITY] of the Philippines (hereinafter called "the Entity") of the one part and [name of Supplier] of [city and country of Supplier] (hereinafter called "the Supplier") of the other part;

WHEREAS, the Entity invited Bids for certain goods and ancillary services, particularly [brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and services in the sum of [contract price in words and figures in specified currency] (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents as required by the 2016 revised Implementing Rules and Regulations of Republic Act No. 9184 shall be deemed to form and be read and construed as integral part of this Agreement, viz.:
  - i. Philippine Bidding Documents (PBDs);
    - i. Schedule of Requirements;
    - ii. Technical Specifications;
    - iii. General and Special Conditions of Contract; and
    - iv. Supplemental or Bid Bulletins, if any
  - ii. Winning bidder's bid, including the Eligibility requirements, Technical and Financial Proposals, and all other documents or statements submitted;

Bid form, including all the documents/statements contained in the Bidder's bidding envelopes, as annexes, and all other documents submitted (e.g., Bidder's response to request for clarifications on the bid), including corrections to the bid, if any, resulting from the Procuring Entity's bid evaluation;
  - iii. Performance Security;
  - iv. Notice of Award of Contract; and the Bidder's conforme thereto; and
  - v. Other contract documents that may be required by existing laws and/or the Procuring Entity concerned in the PBDs. **Winning bidder agrees that additional contract documents or information prescribed by the GPPB that are subsequently required for submission after the contract execution, such as the Notice to**

**Proceed, Variation Orders, and Warranty Security, shall likewise form part of the Contract.**

3. In consideration for the sum of *[total contract price in words and figures]* or such other sums as may be ascertained, *[Named of the bidder]* agrees to *[state the object of the contract]* in accordance with his/her/its Bid.
4. The *[Name of the procuring entity]* agrees to pay the above-mentioned sum in accordance with the terms of the Bidding.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of the Republic of the Philippines on the day and year first above written.

*[Insert Name and Signature]*

*[Insert Name and Signature]*

*[Insert Signatory's Legal Capacity]*

*[Insert Signatory's Legal Capacity]*

for:

for:

*[Insert Procuring Entity]*

*[Insert Name of Supplier]*

**Acknowledgment**

*[Format shall be based on the latest Rules on Notarial Practice]*

Republic of the Philippines



Government Procurement Policy Board