



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

# **Bidding Documents**

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

## **For the Project**

### **Supply and Delivery of Advanced Manufacturing Equipment for IE and ECE of the College of Engineering and Technology, Lot No. 2 (APP 2023)**

**With an Approved Budget for the Contract (ABC) of  
Ten Million Pesos (₱ 10,000,000.00)**

**Invitation to Bid No. Goods 2023-001A  
PhilGeps Reference No.: 9719646**

**July 2020  
6<sup>th</sup> Edition**

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## ***Glossary of Acronyms, Terms, and Abbreviations***

**ABC** – Approved Budget for the Contract.

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

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

**CDA** - Cooperative Development Authority.

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

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

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

**DTI** – Department of Trade and Industry.

**EXW** – Ex works.

**FCA** – “Free Carrier” shipping point.

**FOB** – “Free on Board” shipping point.

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

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

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

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

**PhilGEPS** - Philippine Government Electronic Procurement System.

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

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

**UN** – United Nations.

# Section I. Invitation to Bid



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

## INVITATION TO BID

### For the Project

## Supply and Delivery of Advanced Manufacturing Equipment for IE and ECE of the College of Engineering and Technology, Lot No. 2 (APP 2023)

### Invitation to Bid No. 2023-001

1. The Tarlac State University, through General Appropriations Act intends to apply the sum of Ten Million Pesos (₱ 10,000,000.00) to payments under the contracts for the project: **Supply and Delivery of Advanced Manufacturing Equipment for IE and ECE of the College of Engineering and Technology, Lot No. 2 (APP 2023)**.

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

2. The Tarlac State University now invites bids for the project: Supply and Delivery of Advanced Manufacturing Equipment for IE and ECE of the College of Engineering and Technology, Lot No. 2 (APP 2023). Delivery of the Goods is required within one hundred twenty (120) calendar days from the receipt of the Notice to Proceed. Bidders must have completed, within the last five (5) years prior to the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders.
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

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

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

**BAC Secretariat**  
Gender and Development Building  
Tarlac State University

Romulo Blvd., San Vicente, Tarlac City  
Tel. No. (045) 606-8142 – 0998 846 0206  
Email: [bacsec@tsu.edu.ph](mailto:bacsec@tsu.edu.ph)

5. A complete set of Bidding Documents may be acquired by interested Bidders from **May 05, 2023 to May 30, 2023** from the aforementioned address upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of ₱ 10,000.00.

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

6. The Tarlac State University will hold a Pre-Bid Conference on **May 16, 2023 (2:00 P.M.)** at the Business Center Audio-Visual Room, 2nd Floor, Business Center Bldg., Tarlac State University, Romulo Blvd., San Vicente, Tarlac City, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the address below on or before **May 30, 2023 (2:00 P.M.)**.

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

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 14.
9. Bid opening shall be on **May 30, 2023 at 2:00 P.M.**, at the Business Center Audio-Visual Room, 2nd Floor, Business Center Bldg., Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Bids will be opened in the presence of the bidders' representatives who choose to attend.
10. The Tarlac State University reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 Revised IRR of RA 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:

Ms. Jhenna Micah A. Manankil /Mr. Joshua Jonathan Jacinto  
BAC Secretariat  
Gender and Development Building  
Tarlac State University  
Romulo Blvd., San Vicente, Tarlac City  
Tel. No. (045) 606-8142 / 0998 846 0206  
Email: [bacsec@tsu.edu.ph](mailto:bacsec@tsu.edu.ph)

**(SGD) DR. MURPHY P. MOHAMMED**  
BAC Chairperson

## Section II. Instructions to Bidders

### 1. Scope of Bid

- 1.1. The Tarlac State University wishes to receive Bids for the project: Supply and Delivery of Advanced Manufacturing Equipment for IE and ECE of the College of Engineering and Technology, Lot No. 2 (APP 2023), with identification number **Invitation to Bid No. 2023-001A**.
- 1.2. The procurement project (referred to herein as “Project”) is composed of one lot the details of which are described in Section VII. Technical Specifications.

### 2. Funding Information

- 2.1. The GOP through the source of funding as indicated below for **2023** in the amount of **₱ 10,000,000.00**.
- 2.2. The source of funding is the **General Appropriations Act**.

### 3. Bidding Requirements

- 3.1. The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.
- 3.2. Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or IB by the BAC through the issuance of a supplemental or bid bulletin.
- 3.3. The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

### 4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

### 5. Eligible Bidders

- 5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.
- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder must have a SLCC that is similar to the Project, as described in the **BDS**, with a value, adjusted to current prices using the PSA’s CPI, that is at least equivalent to fifty percent (50 %) of the ABC.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## 6. Origin of Goods

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

## 7. Subcontracts

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

The Procuring Entity has prescribed that subcontracting is not allowed

## 8. Pre-Bid Conference

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

## 9. Clarification and Amendment of Bidding Documents

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

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

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

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

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

## 11. Documents comprising the Bid: Financial Component

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

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

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

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

## 12. Bid Prices

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

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

## 13. Bid and Payment Currencies

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

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

## 14. Bid Security

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

14.2. The Bid and bid security shall be valid until **September 27, 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

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

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

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

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

## **16. Deadline for Submission of Bids**

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

## **17. Opening and Preliminary Examination of Bids**

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

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

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

## **18. Domestic Preference**

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

## **19. Detailed Evaluation and Comparison of Bids**

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

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

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

19.4. The Project shall be awarded as one project having several items grouped into one lot that shall be awarded as one contract.

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

## **20. Post-Qualification**

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

## **21. Signing of the Contract**

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

## Section III. Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be the supply and delivery of similar goods comprising the Project.
12	The price of the Goods shall be quoted DDP Tarlac City, Philippines, or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <ul style="list-style-type: none"> <li>a. The amount of not less than two percent (2 %) of ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than five percent (5 %) of ABC if bid security is in Surety Bond.</li> </ul>
19.3	The ABCs for the project is ₱ 10,000,000.00
20.1	No further requirements.
21.1	No further requirements.

## Section IV. General Conditions of Contract

### 1. Scope of Contract

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

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

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

### 2. Advance Payment and Terms of Payment

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

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

### 3. Performance Security

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

### 4. Inspection and Tests

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

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

### 5. Warranty

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

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

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

## **6. Liability of the Supplier**

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

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

## Section V. Special Conditions of Contract

GCC Clause	
1	<p><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>The delivery terms applicable to this Contract are delivered to Tarlac State University, Romulo Blvd., San Vicente, Tarlac City. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements.</p>
	<p><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>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity  Name of the Supplier  Contract Description  Final Destination  Gross weight  Any special lifting instructions  Any special handling instructions  Any relevant HAZCHEM classifications</p> <p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p>
	<p><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 Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p>
	<p><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>
4	<p>The inspections and tests that will be conducted are: visual and sensory inspection and test.</p>

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

The delivery date for the Goods covered by the Contract shall be within one hundred twenty (120) calendar days upon receipt of the Notice to Proceed.

## Section VII. Technical Specifications

Item No.	Description
Lot No. 2 – Three-Station Modular Production System and Robotics System comprising of the following:	
1.	<p>Distributing/Conveyor Station, consisting of the following:</p> <ol style="list-style-type: none"> <li>1. Conveyor Module, with the following components:               <ol style="list-style-type: none"> <li>1.1. Fiber-optic cable (diffuse sensor), with the following features:                    Signal processing (measuring principle) - Red light                    Coverage range max. - 120 mm                    Mounting thread - M6                    Coating of housing - Nickel-plated                    Degree of protection - IP65                    Switch triggering - Reflex                    Function on actuation - Polymer fiber optic cable</li> <li>1.2. Fiber-optic device (diffuse sensor), with the following features:                    Signal processing (measuring principle) - Red light                    Switch triggering - Reflex/Interrupt                    Function on actuation - Sender and receiver                    Output potential - PNP                    Coverage range max. - 120 mm                    Thread for connector - M 8x1                    Number of pins, plug connection - 4                    Operating status display - Yellow LED                    Short-circuit strength - Pulsed                    Type of mounting - Hole                    Material of housing - PBT-reinforced                    Voltage type - DC                    Nominal operating voltage - 24 V                    Minimum operating voltage - 10                    Maximum operating voltage - 30                    Maximum idle current - 25 mA                    Maximum switching frequency - 1000 Hz                    Degree of protection - IP65</li> <li>1.3. Fiber-optic cable (light barrier), with the following features:                    Signal processing (measuring principle) - Red light                    Switch triggering - Interrupt                    Function on actuation - Polymer fiber optic cable                    Coverage range max. - 400 mm                    Mounting thread - M4                    Degree of protection - IP65</li> <li>1.4. Fiber-optic device (light barrier), with the following features:                    Signal processing (measuring principle) - Red light                    Switch triggering - Reflex/Interrupt                    Output potential - PNP                    Coverage range max. - 120 mm                    Thread for connector - M 8x1                    Number of pins, plug connection - 4                    Operating status display - Yellow LED                    Voltage type - DC</li> </ol> </li> </ol>

Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage – 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

1.5. D.C. Rotary Solenoid, with the following features:

Angle of rotation – 95°  
Operating mode - S3 40%  
Torque - 2.00 Ncm  
Rated power - 16.2 W  
Mass inertia - 0.314 x 10 – 6 (kgm<sup>2</sup>)ft  
Time constant - 6.5 ms

1.6. DC Gear motor, with the following features:

Nominal voltage 24 V  
Nominal current 1.5 A  
Nominal speed of drive shaft - 65 rpm  
Reduction stages - 1  
Nominal torque - 1 N-m  
Reversible - Yes  
Starting torque - 7 N-m

1.7. DC motor controller, with the following features:

Nominal voltage - 24 V ± 10%  
Maximum power consumption - 50 mA  
Continuous motor current - 4 A  
Control inputs, logic 1 - 10.....24 V  
Control inputs, logic 0 - 0.....4 V  
Analog input - 0...10 V , 24 V tolerant  
Overvoltage protection - Yes  
CE marking per - Class B interference emission

1.8. Mini I/O terminal, with the following features:

Operating voltage – 24 V DC  
Digital I/O, 4DI, 4DO - Maximum 24 V DC, maximum 2 A per output  
Analog I/O, 2AI, 1AO - 0....10V DC and ± 10V DC  
Electrical connection - D-Sub HD 15-pin (3-row) Spring clip: 0.14 ... 0.5 mm<sup>2</sup>  
Indicators Status LEDs: Blue (power supply), Green (input signal), Orange (output signal)

2. Stack Magazine Module, with the following components:

2.1. Proximity sensor, with the following features:

Design - For T-slot  
Measuring principle - Reed magnetic  
Switch output - with contact, bipolar  
Maximum switching frequency - 800 Hz  
Maximum output current - 500 mA  
Electrical connection - Cable 3-core  
Connector exit direction - axial  
Cable length - 2.5 m  
Mounting type - Clamped in T-slot  
Insertable into slot lengthwise  
Operating status display - Yellow LED  
Protection class - IP65 IP67  
Ambient temperature with flexible cable - -5 oC to 60 °C

	<p>Tightening torque - 0.2 N-m</p> <p>2.2. Fiber-optic cable (light barrier), with the following features:  Signal processing (measuring principle) - Red light  Switch triggering - Interrupt  Function on actuation - Polymer fiber optic cable  Coverage range max. - 400 mm  Mounting thread - M4  Degree of protection - IP65</p> <p>2.3. Fiber-optic device (light barrier), with the following features:  Signal processing (measuring principle) - Red light  Switch triggering - Reflex/Interrupt  Output potential - PNP  Coverage range max. - 120 mm  Thread for connector - M 8x1  Number of pins, plug connection - 4  Operating status display - Yellow LED  Voltage type - DC  Nominal operating voltage - 24 V  Minimum operating voltage - 10 V  Maximum operating voltage - 30 V  Maximum idle current - 25 mA  Maximum switching frequency - 1000 Hz  Degree of protection - IP65</p> <p>2.4. Standard cylinder, with the following features:  Stroke - 100 mm  Piston diameter - 8 mm  Piston rod thread - M4  Cushioning - P: Flexible cushioning rings/plates at both ends  Assembly position -Any  Piston-rod end - Male thread  Design structure - Piston, Piston rod, Cylinder barrel  Variants - Single-ended piston rod  Working pressure - 1.5 bar to 10 bar  Mode of operation - double-acting  Corrosion resistance classification CRC - 2 - Moderate corrosion stress  Impact energy in end positions - 0.03 J  Theoretical force at 6 bar, return stroke - 22.6 N  Moving mass with 0 mm stroke - 30.2 N  Mounting type - with accessories  Pneumatic connection - M5</p> <p>2.5. Mini-I/O-Terminal, with the following features:  Operating voltage - 24 V DC  Digital inputs/outputs, 4DI/4DO - Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  Analogue inputs/outputs, 2AI/1AO - 0 ... 10 V DC and ±10 V DC respectively  Electrical connection - D-Sub HD 15-pin (3-row), Spring clip: 0.14 ... 0.5 mm  Indicators - Status LEDs: Blue (power supply), Green (input signal), Orange (output signal)  Operating voltage - 24 V DC  Digital inputs/outputs, 4DI/4DO -  Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  Analogue inputs/outputs, 2AI/1AO - 0 ... 10 V DC and ±10 V DC respectively  Electrical connection - D-Sub HD 15-pin (3-row), Spring clip: 0.14 ... 0.5 mm</p>
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	<p>2.6. One-way flow control valve, with the following features:  Valve function - One-way flow control function for exhaust air  Pneumatic connection, port 1 - QS-4  Pneumatic connection, port 2 - M5  Adjusting element - Slotted head screw  Mounting type - Threaded  Standard nominal flow rate in flow control direction - 40 l/min  Working pressure - 0.2 to 10 bar</p> <p>3. Sorting Gate/Separator Module, with the following components:</p> <p>3.1. D.C. Rotary Solenoid, with the following features:  Angle of rotation - 95°  Operating mode - S3 40%  Torque - 2.00 N-cm  Rated Power - 16.2 W  Mass inertia - 0.314 x 10<sup>-6</sup> (kgm<sup>2</sup>)ft  Time constant - 6.5 ms</p> <p>4. Interface, with the following features:  Type - C interface  Operating voltage - 24 V DC  Digital inputs/outputs 8DI/8DO - Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  Analogue inputs/outputs 4AI/2AO - 0 to 10 V DC or ± 10 V DC  Electrical connection – 2 x 15-pin D-Sub HD (3 rows), 1 x 24 pin IEEE 488 socket (SysLink), 1 x 15-pin D-Sub (2 rows)  Indicators - Status LEDs: blue (power supply), green (input signals), orange (output signals)</p> <p>5. Computer Cable, with the following features:  Type - D-Sub HD connecting cable, crossed  Number of wires - 16  Cross section - 0.25 mm<sup>2</sup>  Plug type - D-Sub HD 15-pin (3 rows)  Socket type- D-Sub HD-15-pin (3 rows)  Power rating - Maximum 2 A per wire</p> <p>6. Supply Regulator Valve, with the following features:  Type - diaphragm valve with filter  Assembly position - Vertical ±5°  Standard nominal flow rate - 110 l/min  Upstream pressure - 100 to 1000 kPa  Operating pressure - 50 to 700 kPa  Connection type- Coupling plug for coupling socket G1/8</p> <p>7. Control Panel/Console, with the following features:  Function - Control console for Syslink  Membrane keyboard: Start pushbutton with LED, stop pushbutton, Reset push button, with LED, 2 flexibly assignable control lamps, 4 mm safety sockets with LED status display for I/O connection, Syslink and Sub-D sockets for connection to PLC on the rear panel</p> <p>8. Programmable Logic Controller (PLC)  Main memory - Main memory, Memory card included  Interface - 2-port switch, Ethernet, 10 ns bit performance</p>
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	<p>Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution</p> <p>Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel</p> <p>With integrated power supply unit, 110/230 V AC/24 V DC/4 A</p> <p>With 19" module simulation plate with 2 SysLink plug</p> <p>With connector for MPS and control panel</p> <p>With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs.</p> <p>9. PLC Software, with the following programming languages:  Statement list (STL)  Function diagram (FUN)  Ladder diagram (LDR)  Structured Text  Function Sequence Diagram</p> <p>10. Trolley, with the following features:  Height (including rolls unit top edge of trolley) - 750 mm  Width - 350 mm  Length - 700 mm  Material: Aluminum</p> <p>11. Accessories,  Profile plate  Height adjustment  A4 mounting frame  A4 mounting profile  Assembly board</p>
2.	<p>Handling Station, consisting of the following:</p> <p>1. Pick and Place Module, with the following components:</p> <p>1.1. Pneumatic Linear drive, with the following features:  Mode of operation - Double acting  Shape - piston Round  Sensing type - Magnetic  Type of cushioning Internal cushioning ring (non-adjustable)  Protection against torsion - Guide  Driver principle - Positive-locking (slot)  Guide principle - Plain-bearing guide  Piston, nominal size – 12 mm  X-stroke - X  Minimum stroke for X-stroke - 10 mm  Maximum stroke for X-stroke - 600 mm  Minimum operating pressure - 2.5 bar  Maximum operating pressure - 8 bar  Minimum ambient temperature - -10 °C  Maximum ambient temperature - 60 °C  Air connection type - Female thread  Connector thread page 1 - M 5  Air connection type connecting thread - Female thread  Connector thread page 2 - M 5  Effective force (approximate) at 6 bar - 68 N  Air consumption at 6 bar/10 mm - 0.0079 l</p> <p>1.2. Parallel gripper, with the following features:</p>

Mode of operation - Double acting  
 Gripper function - Parallel  
 No. of gripper jaws - 2  
 Drive - 2 cylinders parallel  
 Type of mounting direct - Thread: Hole  
 Sensing type - Magnetic  
 Piston, nominal size - 10  
 Operating pressure min. - 2 bar  
 Operating pressure max. - 8 bar  
 Minimum ambient temperature - 5 °C  
 Maximum ambient temperature - 60 °C  
 Air connection type - Female thread  
 Connector thread - M 3  
 Material of barrel/housing - Kneaded aluminum alloy  
 Material of gripper fingers - Stainless high-alloy steel  
 Material of cover- PA  
 CT criterion - Free of copper and teflon  
 Product weight - 0.068 kg  
 Nominal gripping force, closing - 40 N  
 Nominal gripping force, opening - 47 N  
 Nominal time, opening - 22 ms  
 Nominal time, closing - 31 ms  
 Air consumption at 6 bar per stroke - 0.0025 l  
 Medium - Dried air, lubricated or unlubricated  
 Interchangeability - 0.2 mm  
 Repetition accuracy - 0.04 mm

1.3. Flat Cylinder, with the following features:

Mode of operation - Double acting  
 Shape piston - Oval  
 Shape of piston rod - Round  
 Sensing type - Magnetic  
 Type of cushioning - Internal cushioning ring (non-adjustable)  
 Protection against torsion - Piston shape  
 Piston, nominal size – 18 mm  
 Stroke - 80 mm  
 Piston rod diameter - 8 mm  
 End of piston rod - Female thread  
 KK Piston rod thread - M 4  
 Operating pressure min. - 1 bar  
 Operating pressure max. - 10 bar  
 Minimum ambient temperature - -20 °C  
 Maximum ambient temperature - 80 °C  
 Bearing cap connection type - Female thread  
 EE Connecting thread for bearing cap - M 5  
 Material of cap - Wrought aluminum alloy  
 Material of seals - FPM, TPE-U(PU)  
 Material of piston rod - Stainless high-alloy steel  
 Material of barrel/housing - Wrought aluminum alloy  
 Total weight at 0 mm stroke - 0.107 kg  
 Additional weight per 10 mm stroke - 0.013 kg  
 Weight of moving load at 0 mm stroke - 0.024 kg  
 Weight of moving load per 10 mm stroke 0,004 kg - 0.024 kg  
 Air connection type cover cap - Female thread  
 EE Connecting thread for end cap - M 5  
 Effective force (approximate) at 6 bar, adv. - 153 N  
 Effect. force (approximate) at 6 bar, return 1- 23 N  
 Maximum Torque - 0.2 Nm

Air consumpt.at 6 bar per advance - 0.0178 l

1.4. Valve Kit, CPV, with the following features:

Function - Piloted non-return valve  
Type of mounting Hole  
Nominal size non-return 4 mm  
Air connection type 1 Sub-base  
Air connection type 2 Female thread  
Operating pressure min. - 2.5 bar  
Operating pressure max. - 10 bar  
Minimum ambient temperature - -10 °C  
Maximum ambient temperature - 60 °C  
Minimum medium temperature - -10 °C  
Maximum medium temperature - 60 °  
Material of housing - Die-cast zinc  
Material of seals - NBR-Elastomer  
Standard nominal flow rate 1->2(S) max. - 160 l/min  
Standard nominal flow rate 2->1 max. - 220 l/min  
Switch-on time - 20 ms  
Switch-off time - 30 ms  
Medium - Compressed air, filtered

1.5. One way flow control valve, with the following features:

Function - One-way flow control  
Function air supply/exhaust air - Exhaust air  
Function restrictor - Adjustable  
Actuating component - Screw  
Type of mounting - Screw-in  
Nominal size flow control - 1.4 mm  
Nominal size non-return - 1.4 mm C32:C4C32:C47  
Air connection type 1 - Male thread  
Air connection type 2 - Push-in  
Thread for port 1 - M 5  
Nominal size of tubing connection - 2 4  
Operating pressure min. - 0.2 bar  
Operating pressure max. - 10 bar  
Minimum ambient temperature - -10 °C  
Maximum ambient temperature - 60 °C  
Minimum medium temperature - -10 °C  
Maximum medium temperature - 60 °C  
Material of housing - Die-cast zinc  
Material of seals - NBR-Elastomer  
Material of screw-in stud - brass  
Product weight - 0.009 kg  
Standard nom. flow rate 1->2(S) max. - 40 l/min  
Standard nom. flow rate 1->2(S) min - 0 l/min  
Standard nominal flow rate 2->1 max. - 50 l/min  
Standard nominal flow rate 2->1 min 0 0 l/min  
Medium - Compressed air, filtered 40 µm (may be lubricated)

1.6. Valve Kit, CPV, with the following features:

Signal processing (measuring principle) – red light  
Switch triggering – Reflex  
Function on actuation – Polymer fiber optic cable  
Coverage range max. – 120 mm  
Minimum ambient temperature - -40 °C  
Maximum ambient temperature – 70 °C  
Mounting thread – M 6  
Material of housing – brass

Product weight – 0.02 kg  
Coating of housing – Nickel-plated  
Degree of protection – IP65

1.7. Station link receiver, through beam sensor, with the following features:

Signal processing (measuring principle) – Infrared  
Switch triggering – Interrupt  
Function on actuation – Receiver  
Output potential (el. Output) – PNP  
Maximum coverage range - 6000 mm  
Minimum ambient temperature - -5 °C  
Maximum ambient temperature - 55 °C  
Air connection type elec. - Plug  
Thread for connector - M 8x1  
Number of pins, plug connection - 3  
Operating status display - Yellow LED  
Short-circuit strength - Pulsed  
Protection against incorrect polarity - integrated  
Voltage type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage - 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

1.8. Station link transmitter, through beam sensor, with the following features:

Signal processing - Infrared  
Switch triggering - Interrupt  
Function on actuation - sender  
Coverage range maximum - 6000 mm  
Minimum ambient temperature -5 °C  
Maximum ambient temperature - 55 °C  
Air connection type elec. - Plug  
Thread for connector - M 8 x 1  
Number of pins, plug connection - 3  
Operating status display - Yellow LED  
Short-circuit strength - Pulsed  
Protection against incorrect polarity -integrated  
Voltage Type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage - 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

1.9. Fiber Optic device, Optoelectronic sensor, with the following features

Signal processing (measuring principle) - red light  
Switch triggering - Reflex/Interrupt  
Function on actuation - sender and receiver  
Output potential (el. output) - PNP  
Maximum coverage range - 120 mm  
Minimum ambient temperature - -5 °C  
Maximum ambient temperature - 55 °C  
Air connection type elec. - Plug  
Thread for connector - M 8 x 1  
Number of pins, plug connection - 4  
Operating status display - Yellow LED

Short-circuit strength - Pulsed  
Protection against incorrect polarity - built-in  
Type of mounting - Hole  
Material of housing - PBT-reinforced  
Product weight - 0.018 kg  
Voltage Type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage - 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

1.10. Solenoid Valve CPV 3/2 way, with the following features:

Switching function - 3/2-way valve, normally open or normally closed  
Switching function short code - 2-Mar  
Direction of flow reversible - No  
Operating principle - Slide  
Shape of function component - Piston  
With exhaust flow control - No  
Type of regulation - Indirect  
Control type - Monostable  
Type of reset - Air spring  
External auxiliary pilot air - Yes  
Grid dimension - 10 mm  
Type of mounting - Screw  
Number of multiple configurations - 2  
Type of multiple configuration - Battery  
Installation position - Any  
Nominal size - 4 mm  
Minimum operating pressure - -0.9 bar  
Maximum operating pressure - 10 bar  
Minimum ambient temperature - -5 °C  
Maximum ambient temperature - 50 °C  
Minimum medium temperature - -5 °C  
Maximum medium temperature - 50 °C  
Minimum pilot pressure - 3 bar  
Type of connection, air supply - Manifold module  
Air connection type power port - Female thread  
Air connection type power port - Female thread  
Type of connection, exhaust - Manifold module  
Air connection type auxiliary pilot air supply - Manifold module  
Air connection type auxiliary pilot air exhaust - Manifold module  
Type pilot control air - Supply and exhaust:  
External pilot air and air spring, ducted pilot exhaust  
Actuation/reset - Single solenoid, air spring return

1.11. Solenoid Valve CPV 5/2 way, with the following features:

Switching function - 5/2-way valve  
Switching function short code - 5 working ports, 2 switching position  
Direction of flow reversible - No  
Operating principle - Slide  
Shape of function component - Piston  
With exhaust flow control - No  
Type of regulation - Indirect  
Control type - Monostable  
Type of reset - Air spring  
External auxiliary pilot air - Yes  
Grid dimension - 10 mm

Type of mounting - Screw  
 Number of multiple configurations - 2  
 Type of multiple configuration - Battery  
 Installation position - Any  
 Nominal size - 4 mm  
 Minimum operating pressure - -0.9 bar  
 Maximum operating pressure - 10 bar  
 Minimum ambient temperature - -5 °C  
 Maximum ambient temperature - 50 °C  
 Minimum medium temperature - -5 °C  
 Maximum medium temperature - 50 °C  
 Minimum pilot pressure - 3 bar  
 Type of connection, air supply - Manifold module  
 Air connection type power port - Female thread  
 Air connection type power port - Female thread  
 Type of connection, exhaust - Manifold module  
 Air connection type auxiliary pilot air supply - Manifold module  
 Type pilot control air Supply and exhaust - External pilot air and air spring, ducted pilot exhaust  
 Actuation/reset - Single solenoid, air spring return

1.12. Socket connector cable for sensor and switches (4GD and 3GD), with the following features:

Minimum ambient temperature standard - -40 °C  
 Maximum ambient temperature standard - 70 °C  
 Correlation ambient temperature /hours - Fixed cable installation  
 Minimum ambient temperature screwed-in - -5 °C  
 Maximum ambient temperature limited - 70 °C  
 Ambient temperature class, screwed in - Flexible cable installation  
 Air connection type elec. - Cable/socket  
 Number of cores - 3  
 Core cross section - 0.25 mm<sup>2</sup>  
 Length of cable - 2500 mm  
 Diameter of connecting cable - 4.5 mm  
 Material, cable sheath - TPE-U(PU)  
 Degree of protection - IP67

1.13. Relays, with the following features:

Relays per module - 1  
 Relay mount - Soldered  
 Mount - can be snapped onto 35-mm DIN rail (EN 50 022) and 32-mm G-rail (EN 50 035)  
 Temperature range - -25 °C to 60 °C  
 Rated isolation voltage input/output - 2500 V eff  
 Dimensions (W x H x D) - 22.5 mm × 67 mm × 60 mm  
 Housing material - Noryl

1.14. Shock Absorber, with the following features:

Function - shock absorber  
 Cushioning - self-adjustable  
 Type of mounting - Thread + lock nut  
 Mounting thread - M 8 x 1  
 Piston, nominal size - 5 mm  
 Stroke - 5 mm  
 Cushioning work per stroke - 1 J  
 Cushioning work per hour - 8000 J  
 Impact speed max. - 2 m/s  
 Maximum impact force - 200 N

Minimum reset force, advanced position - 0.7 N  
 Minimum inward thrust, rear end position - 5.5 N  
 Maximum residual energy - 0.01 J  
 Piston rod diameter - 2.5 mm  
 Minimum ambient temperature - -10 °C  
 Maximum ambient temperature - 80 °C  
 Reset time, short term - 0.2 s  
 Permissible tightening torque - 2 Nm  
 Material of seals NBR, TPE-U(PU)  
 Material of piston rod - High-alloy steel  
 Material of barrel/housing - Steel: Brass  
 CT criterion - Free of copper and teflon  
 Product weight - 0.009 kg

1.15. Push-in/thread L-fittings, with the following features:

Nominal size connector - 2.4 mm  
 Nominal size of tubing connection - 4  
 Mounting/connection thread - M 5  
 Minimum operating pressure - -0.95 bar  
 Maximum operating pressure - 10 bar  
 Minimum ambient temperature - 0 °C  
 Maximum ambient temperature - 60 °C  
 Minimum medium temperature - 0 °C  
 Maximum medium temperature - 60 °C  
 Material of housing - PBT-reinforced  
 Product weight - 0.003 kg  
 Medium - Compressed air, filtered

1.16. Start-up valve filter control valve, with the following features:

Medium - Compressed air  
 Design - Sintered filter with water separator, diaphragm control valve  
 Assembly position - Vertical  $\pm 5^\circ$   
 Standard nominal flow rate - 750 l/min  
 Maximum upstream pressure - 1600 kPa  
 Maximum operating pressure - 1200 kPa  
 Connection - Coupling plug force coupling socket, QS-plug fitting for plastic tubing PUN 6 x 1

1.17. Proximity sensor, with reed contact and light emitting diode, without mounting kit, with the following features:

Signal processing/type of contact - reed contact  
 Function on actuation - N/O contact  
 Switching accuracy (+/-) - 0.1 mm  
 Minimum ambient temperature standard - -20 °C  
 Maximum ambient temperature standard - 70 °C  
 Correlation ambient temperature /hours - Fixed cable installation  
 Maximum ambient temperature screwed-in - -5 °C  
 Ambient temperature class, screwed in - Flexible cable installation  
 Air connection type elec. - Cable with plug  
 Number of cores - 3  
 Core cross section - 0.14 mm<sup>2</sup>  
 Length of cable - 300 mm  
 Number of pins, plug connection - 3  
 Operating status display - Yellow LED  
 Type of mounting slot  
 Material of housing - PET-reinforced  
 Material, cable sheath - PVC-polymer  
 CT criterion - Free of copper and teflon

Product weight - 0.01 kg  
Voltage type - AC/DC  
Nominal operating voltage - 24 V DC  
Minimum operating voltage - 12 V DC  
Maximum operating voltage - 30 V DC  
Nominal operating voltage - 24 V AC  
Minimum operating voltage - 12 V AC  
Maximum operating voltage - 30 V AC  
Maximum contact rating (DC) - 10 W  
Maximum contact rating (AC) - 10 VA  
Maximum switching frequency - 500 Hz

1.18. I/O terminals, with the following features:

Number of inputs with LED - 8  
Number of outputs with LED - 8  
Number of terminals 0 V - 22  
Number of terminals 24 V - 12  
Connector – Amphenol Tuchel 24-pin, 57 GE series

1.19. Silencer, with the following features:

Air connection type - Male thread  
Connector thread - M 5  
Operating pressure min. - 0 bar  
Operating pressure max. - 10 bar  
Minimum ambient temperature - -10 °C  
Maximum ambient temperature - 70 °C  
Sound pressure level - 70 dB(A)  
Standard nominal flow rate - 90 l/min  
Material of screw-in stud – brass

1.20. Slide module (with a retainer for mounting on a profile plate), with the following features:

Application: - As end slide or segregating slide  
Length - 250 mm  
Standard height - 117 – 200 mm (adjustable)

1.21. Plastic tubing, 4 mm, with the following features:

Nominal size of tubing - 4 mm  
Internal diameter - 2.6 mm  
Outside diameter - 4 mm  
Minimum bending radius - 17 mm  
Minimum operating pressure - -0.95 bar  
Maximum operating pressure at 20°C - 10 bar  
Maximum operating pressure at 30°C - 10 bar  
Maximum operating pressure at 40°C - 9 bar  
Maximum operating pressure at 60°C - 7 bar  
Suitable for vacuum - Yes  
Minimum ambient temperature - -35 °C  
Maximum ambient temperature - 60 °C  
Material of tubing - TPE-U(PU)  
Product weight per meter - 0.0089 kg/m  
Color - blue  
Length – 10 m

1.22. Plastic tubing, 6 mm, with the following features:

Nominal size of tubing – 6 mm  
Internal diameter 4 mm  
Outside diameter 6 mm

	<p>Minimum bending - 26.5 mm  Minimum operating pressure - -0.95 bar  Maximum operating pressure at 20°C - 10 bar  Maximum operating pressure at 30°C - 10 bar  Maximum operating pressure at 40°C - 9 bar  Maximum operating pressure at 60°C - 7 bar  Minimum ambient temperature - -35 °C  Maximum ambient temperature - 60 °C  Material of tubing - TPE-U(PU)</p> <p>2. Programmable Logic Controller (PLC), with the following features:  Main memory - Main memory, Memory card included  Interface - 2-port switch, Ethernet, 10 ns bit performance  Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution  Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel  With integrated power supply unit, 110/230 V AC/24 V DC/4 A  With 19" module simulation plate with 2 SysLink plug  With connector for MPS and control panel  With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs</p> <p>3. PLC Software, with the following programming languages:  Statement list (STL)  Function diagram (FUN)  Ladder diagram (LDR)  Structured Text  Function Sequence Diagram</p> <p>4. Trolley, with the following features:  Material - Aluminum  Height (including castors, to bottom edge of profile plate) - 750 mm  Width - 350 mm  Depth - 700 mm</p> <p>5. Profile plate, with the following features:  Material - Aluminum  Length x width - 350 x 700 mm  Grid Dimension - 50 mm</p>
3.	<p>Processing Station, consisting of the following:</p> <p>1. Clamping/ejecting module, with the following features:  For mounting on a profile plate  An electrical solenoid is used for the drive</p> <p>2. Drilling module, with the following features:  Nominal voltage - 24 V  Nominal power output - 50 W  Connection - 2-wire cable (min. 0.5 mm)  Clamping range of drill chuck – 1 to 6 mm  Service life - 200 hours  Weight - 400 g  Height - 360 mm  Working stroke - 100 mm  Nominal current DC motor- 0.3 A  Nominal current - 0.5 A</p>

	<p>3. Gear Motor, with the following features:  Nominal voltage - 24 V DC  Nominal current - 0.31 A  Rated output power - 3.14 W  Nominal rotational speed - 3000 rpm  Efficiency of transmission - 0.72  Stages of gear box - 2  Reduction gear ratio i:1 - 20,25  Nominal torque - 80 N-cm  Weight - 160 g  Electrical connection - Cable with cable-end sleeves</p> <p>4. Rotary indexing table module, with the following features:  Number of workpiece positions - 6  Table is driven by a DC geared motor with a series resistor.  Diameter - 350 mm  Height - 125 mm  Nominal Voltage - 24 V  Nominal rotational speed - 6 rpm (with series resistor 47)  Nominal current - 0.15 A (with series resistor 47)  Nominal current - 0.5 A</p> <p>5. Socket connector cable for sensor and switches, with the following features:  Minimum ambient temperature standard - -40 °C  Maximum ambient temperature standard - 70 °C  Correlation ambient temperature/hours - Fixed cable installation  Maximum ambient temperature, screwed-in - -5 °C  Maximum ambient temperature, limited - 70 °C  Air connection type elec. - Cable/socket  Number of cores - 3  Core cross section - 0.25 mm<sup>2</sup>  Length of cable - 2500 mm  Diameter of connecting cable - 4.5 mm  Material, cable sheath - TPE-U(PU)  Degree of protection - IP67</p> <p>6. Relays, with the following features  Relays per module -1  Relay mount - Soldered  Mount - can be snapped onto 35-mm DIN rail (EN 50 022) and 32-mm G-rail (EN 50 035)  Temperature range - -24 °C to + 60 °C  Rated isolation voltage input/output - 2500 V eff  Dimensions (W x H x D) - 22.5 mm x 67 mm x 60 mm  Housing material - Noryl  CE Compliance – Yes</p> <p>7. Sensor, inductive, with the following features:  EU conformity (CE) - CE  Note on EU conformity - Electromagnetic compatibility  Signal processing/type of contract - Inductive  Function on actuation - N/O contact  Output potential (el. Output) - PNP  Nominal switching distance (sn) - 2.5 mm  Minimum actual switching distance (sr) - 2.5 mm  Maximum actual switching distance (sr) - 2.75 mm  Minimum effective switching distance (su) - 2.03 mm</p>
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	<p>Maximum effective switching distance (su) - 3.03 mm  Guaranteed switching distance (sa) - 2.03 mm  Reproducibility - 0.125 mm  Minimum ambient temperature standard - -25 °C  Maximum ambient temperature standard - 85 °C  Air connection type elec. - Plug  Thread for connector - M 8x1  Number of pins, plug connection - 3  Operating status display - Yellow LED  Short-circuit strength - Pulsed  Protection against incorrect polarity - integrated  Type of mounting - Thread + lock nut  Type of installation - Not flush  Mounting thread - M 8x1  Material of housing - Stainless high-alloy steel  Material, cable sheath - TPE-U (PU)  CT criterion - Free of copper and teflon  Product weight - 0.02 kg  Voltage type - DC  Nominal operating voltage - 24 V  Minimum operating voltage - 15 V  Maximum operating voltage - 34 V</p> <p>8. Sorting gate module, with the following features:  Branch module, electrical  For mounting on a profile plate  An electrical solenoid is used for the drive</p> <p>9. Station link Receiver, through beam sensor, with the following features:  EU conformity (CE) - CE  Note on EU conformity - Electromagnetic compatibility  Signal processing (measuring principle) - Infrared  Switch triggering - Interrupt  Function on actuation - Receiver  Output potential (el. Output) - PNP  Coverage range - max. 6000 mm  Minimum ambient temperature - -5 °C  Maximum ambient temperature - 55 °C  Air connection type elec. - Plug  Thread for connector - M 8 x 1  Number of pins, plug connection - 3  Operating status display - Yellow LED  Short-circuit strength - Pulsed  Protection against incorrect polarity - Integrated  Voltage Type - DC  Nominal operating voltage - 24 V  Minimum operating voltage - 10 V  Maximum operating voltage - 30 V  Maximum Idle current - 25 mA  Maximum switching frequency - 1000 Hz  Degree of protection - IP65</p> <p>10. Station link transmitter, through beam sensor, with the following features:  EU conformity (CE) - CE  Note on EU conformity - Electromagnetic compatibility  Signal processing (measuring principle) - Infrared  Switch triggering - Interrupt  Function on actuation - Sender</p>
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	<p>Coverage range - max. 6000 mm  Minimum ambient temperature - -5 °C  Maximum ambient temperature - 55 °C  Air connection type elec. - Plug  Thread for connector - M 8x1  Number of pins, plug connection - 3  Operating status display - Yellow LED  Short-circuit strength - Pulsed  Protection against incorrect polarity - Integrated  Voltage Type - DC  Nominal operating voltage - 24 V  Minimum operating voltage - 10 V  Maximum Operating voltage - 30 V  Maximum idle current - 25 mA  Maximum switching frequency - 1000 Hz  Degree of protection - IP65</p> <p>11. Micro Switch, with the following features:  EU conformity (CE) - CE  Note on EU conformity - Low voltage  For semi-rotary drives  The switching point may only be exceeded by 0.5mm</p> <p>12. Solenoid actuator (2 pcs), with the following features:  Working stroke: 10 mm  Voltage: 24V DC  Output: 7 W</p> <p>13. Capacitive Sensor, with the following features:  Switching voltage - 12—48 V DC  Output function - Normally open, positive switching (PNP)  Nominal switching distance - 10mm  Hysteresis - s20%  Maximum output current - 200 mA  Reproducible switching point at  constant temperature - £0.01mm  Maximum switching frequency - 25 Hz  No-load current - 20 mA  Permissible ambient operating temperature - -10 °C - +50 °C  Protection against polarity reversal - Integrated  Short-circuit proof - Yes  Protection class - IP65  Size - M18  Type of mounting - Non flush  Emitted interference - Noise immunity tested to EN 500 82-1  Connection cable - 3 Pin</p> <p>14. I/O terminals, with the following features:  Number of inputs with - LED 8  Number of outputs with - LED 8A  Number of terminals 0V - 22  Number of terminals 24V - 12  Connector - Amphenol-Tuchel 24-pin, 57 GE series</p> <p>15. Programmable Logic Controller (PLC), with the following features:  Main memory - Main memory, Memory card included  Interface - 2-port switch, Ethernet, 10 ns bit performance</p>
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	<p>Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution</p> <p>Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel</p> <p>With integrated power supply unit, 110/230 V AC/24 V DC/4 A</p> <p>With 19" module simulation plate with 2 SysLink plug</p> <p>With connector for MPS and control panel</p> <p>With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs</p> <p>16. PLC Software, with the following programming languages:  Statement list (STL)  Function diagram (FUN)  Ladder diagram (LDR)  Structured Text  Function Sequence Diagram</p> <p>17. Trolley, with the following features:  Material - Aluminum  Height (including castors, to bottom edge of profile plate) - 750 mm  Width - 350 mm  Depth - 700 mm</p> <p>18. Profile plate, with the following features:  Material - Aluminum  Length x Width – 350 mm x 700 mm  Grid Dimension: 50 mm</p> <p>System Requirements:  Windows 7 (64-bit) Professional/Enterprise/Ultimate SP1  Windows 10 (64-bit) Professional/Enterprise 1703</p> <p>System Recommendations:  Core i5-6440EQ, 3, 4 GHz  16 GB RAM  1920 x 1080 Pixel  SSD, at least 50 GB of free hard drive space</p> <p>The Three-Station Modular Production System must be supplied with the following:  Software and documentation supplied on DVD  Floating license supplied on USB Stick</p>
4.	<p>Collaborative Robot, with the following features:</p> <p>Performance:  Repeatability - <math>\pm 0.1\text{mm}/ \pm 0.0039\text{ in}</math> (4 mils)  Ambient temperature range - 0-50 ° *  Power consumption - Min 90 W, Typical 125 W, Max 250 W  Collaboration operation - 15 advanced adjustable safety functions</p> <p>Specification:  Payload – 3 kg / 6.6 lbs.  Reach – 500 mm / 19.7 in.  Degrees of freedom - 6 rotating joints  Programming - Polyscope graphical user interface on 12 inch</p> <p>Movement:</p>

<p>Axis movement robot arm: Working range: Maximum speed:</p> <p>Base ±360 ° ±180 °/Sec.</p> <p>Shoulder ±360 ° ±180 °/Sec.</p> <p>Elbow ±360 ° ±180 °/Sec.</p> <p>Wrist 1 ±360 ° ±180 °/Sec.</p> <p>Wrist 2 ±360 ° ±180 °/Sec.</p> <p>Wrist 3 Infinite ±360 °/Sec.</p> <p>Typical tool 1 m/Sec./39.4 in/Sec.</p> <p>Features:  IP Classification - IP 64  ISO Class Cleanroom - 5  Noise - 70dB(A)  Robot Mounting – Any</p> <p>I/O ports:  Digital in - 2  Digital out - 2  Analog in - 2  Analog out - 0  I/O power supply in tool: 12 V/24 V 600 mA in tool</p> <p>Physical:  Footprint - Ø 128mm  Materials: Aluminum, PP plastics  Tool connector type - M8  Cable length robot arm - 6m / 236 in  Weight with cable - 11kg / 24.3 lbs.  Reduction gear ratio i:1 - 20,25  Nominal torque - 80 Ncm  Gripper Total Stroke: 0-110mm  Gripping Force: 3-40NM (Adjustable)  Working Temp: 0-60 Degrees Celsius  IP Classification: IP54  Weight: 0.78kg</p>
<p>I year warranty  With training</p>

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

## Section VIII. Bid Documents Checklist

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

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

<b>A. Eligibility and Technical Documents</b> ( <i>Contents of Envelope 1</i> )	
<input type="checkbox"/>	1. Photocopy of valid PhilGEPS Certificate of Registration (Revised and updated in accordance with GPPB Resolution No. 15-2021)
<input type="checkbox"/>	2. Statement of all on-going government and private contracts, including contracts awarded but not yet started, if any
<input type="checkbox"/>	3. Statement of Single Largest Completed Contract (SLCC), similar to the contract to be bid, in accordance with ITB Clause 5.3
<input type="checkbox"/>	4. Audited Financial Statements stamped “received” by the BIR or its duly accredited and authorized institutions
<input type="checkbox"/>	5. NFCC computation
<input type="checkbox"/>	6. <i>If applicable</i> , a valid 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
<input type="checkbox"/>	7. Bid Securing Declaration or Bid Security, in the form, amount and validity period, as prescribed in ITB Clause 14.1
<input type="checkbox"/>	8. Bidder’s Compliance to the Technical Specifications
<input type="checkbox"/>	9. Omnibus Sworn Statement, which shall be duly notarized
<b>A. Financial Documents</b> ( <i>Contents of Envelope 2</i> )	
<input type="checkbox"/>	1. Financial Bid Form in the prescribed form
<input type="checkbox"/>	2. Schedule of Prices

# Section IX. Bidding Forms

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*[Bidder's Letterhead]*

[Date]

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

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

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

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

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

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

# [Bidder's Letterhead]

[Date]

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

## NET FINANCIAL CONTRACTING CAPACITY

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

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

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

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

**NFCC** =

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

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

## Bid-Securing Declaration

Republic of the Philippines  
City/Municipality Of \_\_\_\_\_ ) S.S.

x-----x

**Invitation to Bid** [*Insert reference number*]

To: **Tarlac State University**

I/We, the undersigned, declare that:

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

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

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

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

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

*[Name and Signature of Notary Public]*

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

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

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

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

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

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

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

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

**Series of** \_\_\_\_\_.

# *[Bidder's Letterhead]*

[Date]

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

## Compliance to the Technical Specifications

Item No.	Description	Bidder's Compliance State "Comply" below if your offer is complying with the specifications, otherwise state "We are offering the same goods with the following specifications [State the complete specifications of the alternative offer]"
Lot No. 2 – Three-Station Modular Production System and Robotics System comprising of the following:		
1.	<p>Distributing/Conveyor Station, consisting of the following:</p> <p>1. Conveyor Module, with the following components:</p> <p>1.1. Fiber-optic cable (diffuse sensor), with the following features: Signal processing (measuring principle) - Red light Coverage range max. - 120 mm Mounting thread - M6 Coating of housing - Nickel-plated Degree of protection - IP65 Switch triggering - Reflex Function on actuation - Polymer fiber optic cable</p> <p>1.2. Fiber-optic device (diffuse sensor), with the following features: Signal processing (measuring principle) - Red light Switch triggering - Reflex/Interrupt Function on actuation - Sender and receiver Output potential - PNP Coverage range max. - 120 mm Thread for connector - M 8x1 Number of pins, plug connection - 4 Operating status display - Yellow LED Short-circuit strength - Pulsed Type of mounting - Hole Material of housing - PBT-reinforced Voltage type - DC Nominal operating voltage - 24 V Minimum operating voltage - 10 Maximum operating voltage - 30 Maximum idle current - 25 mA Maximum switching frequency - 1000 Hz Degree of protection - IP65</p> <p>1.3. Fiber-optic cable (light barrier), with the following features: Signal processing (measuring principle) - Red light Switch triggering - Interrupt</p>	

Function on actuation - Polymer fiber optic cable  
Coverage range max. - 400 mm  
Mounting thread - M4  
Degree of protection - IP65

1.4. Fiber-optic device (light barrier), with the following features:

Signal processing (measuring principle) - Red light  
Switch triggering - Reflex/Interrupt  
Output potential - PNP  
Coverage range max. - 120 mm  
Thread for connector - M 8x1  
Number of pins, plug connection - 4  
Operating status display - Yellow LED  
Voltage type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage – 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

1.5. D.C. Rotary Solenoid, with the following features:

Angle of rotation – 95°  
Operating mode - S3 40%  
Torque - 2.00 Ncm  
Rated power - 16.2 W  
Mass inertia - 0.314 x 10 – 6 (kgm<sup>2</sup>)ft  
Time constant - 6.5 ms

1.6. DC Gear motor, with the following features:

Nominal voltage 24 V  
Nominal current 1.5 A  
Nominal speed of drive shaft - 65 rpm  
Reduction stages - 1  
Nominal torque - 1 N-m  
Reversible - Yes  
Starting torque - 7 N-m

1.7. DC motor controller, with the following features:

Nominal voltage - 24 V ± 10%  
Maximum power consumption - 50 mA  
Continuous motor current - 4 A  
Control inputs, logic 1 - 10.....24 V  
Control inputs, logic 0 - 0.....4 V  
Analog input - 0...10 V , 24 V tolerant  
Overvoltage protection - Yes  
CE marking per - Class B interference emission

1.8. Mini I/O terminal, with the following features:

Operating voltage – 24 V DC  
Digital I/O, 4DI, 4DO - Maximum 24 V DC, maximum 2 A per output  
Analog I/O, 2AI, 1AO - 0....10V DC and ± 10V DC  
Electrical connection - D-Sub HD 15-pin (3-row) Spring clip:  
0.14 ... 0.5 mm<sup>2</sup>  
Indicators Status LEDs: Blue (power supply), Green (input signal), Orange (output signal)

2. Stack Magazine Module, with the following components:

2.1. Proximity sensor, with the following features:

Design - For T-slot  
Measuring principle - Reed magnetic  
Switch output - with contact, bipolar  
Maximum switching frequency - 800 Hz  
Maximum output current - 500 mA  
Electrical connection - Cable 3-core  
Connector exit direction - axial  
Cable length - 2.5 m  
Mounting type - Clamped in T-slot  
Insertable into slot lengthwise  
Operating status display - Yellow LED  
Protection class - IP65 IP67  
Ambient temperature with flexible cable - -5 °C to 60 °C  
Tightening torque - 0.2 N·m

2.2. Fiber-optic cable (light barrier), with the following features:

Signal processing (measuring principle) - Red light  
Switch triggering - Interrupt  
Function on actuation - Polymer fiber optic cable  
Coverage range max. - 400 mm  
Mounting thread - M4  
Degree of protection - IP65

2.3. Fiber-optic device (light barrier), with the following features:

Signal processing (measuring principle) - Red light  
Switch triggering - Reflex/Interrupt  
Output potential - PNP  
Coverage range max. - 120 mm  
Thread for connector - M 8x1  
Number of pins, plug connection - 4  
Operating status display - Yellow LED  
Voltage type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage - 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

2.4. Standard cylinder, with the following features:

Stroke - 100 mm  
Piston diameter - 8 mm  
Piston rod thread - M4  
Cushioning - P: Flexible cushioning rings/plates at both ends  
Assembly position - Any  
Piston-rod end - Male thread  
Design structure - Piston, Piston rod, Cylinder barrel  
Variants - Single-ended piston rod  
Working pressure - 1.5 bar to 10 bar  
Mode of operation - double-acting  
Corrosion resistance classification CRC - 2 - Moderate corrosion stress  
Impact energy in end positions - 0.03 J  
Theoretical force at 6 bar, return stroke - 22.6 N  
Moving mass with 0 mm stroke - 30.2 N

Mounting type - with accessories  
Pneumatic connection - M5

2.5. Mini-I/O-Terminal, with the following features:

Operating voltage - 24 V DC  
Digital inputs/outputs, 4DI/4DO - Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  
Analogue inputs/outputs, 2AI/1AO - 0 ... 10 V DC and  $\pm 10$  V DC respectively  
Electrical connection - D-Sub HD 15-pin (3-row), Spring clip: 0.14 ... 0.5 mm  
Indicators - Status LEDs: Blue (power supply), Green (input signal), Orange (output signal)  
Operating voltage - 24 V DC  
Digital inputs/outputs, 4DI/4DO - Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  
Analogue inputs/outputs, 2AI/1AO - 0 ... 10 V DC and  $\pm 10$  V DC respectively  
Electrical connection - D-Sub HD 15-pin (3-row), Spring clip: 0.14 ... 0.5 mm

2.6. One-way flow control valve, with the following features:

Valve function - One-way flow control function for exhaust air  
Pneumatic connection, port 1 - QS-4  
Pneumatic connection, port 2 - M5  
Adjusting element - Slotted head screw  
Mounting type - Threaded  
Standard nominal flow rate in flow control direction - 40 l/min  
Working pressure - 0.2 to 10 bar

3. Sorting Gate/Separator Module, with the following components:

3.1. D.C. Rotary Solenoid, with the following features:

Angle of rotation -  $95^\circ$   
Operating mode - S3 40%  
Torque - 2.00 N-cm  
Rated Power - 16.2 W  
Mass inertia -  $0.314 \times 10^{-6}$  (kgm<sup>2</sup>)ft  
Time constant - 6.5 ms

4. Interface, with the following features:

Type - C interface  
Operating voltage - 24 V DC  
Digital inputs/outputs 8DI/8DO - Maximum 24 V DC, maximum 2 A per output, maximum 4 A total  
Analogue inputs/outputs 4AI/2AO - 0 to 10 V DC or  $\pm 10$  V DC  
Electrical connection - 2 x 15-pin D-Sub HD (3 rows), 1 x 24 pin IEEE 488 socket (SysLink), 1 x 15-pin D-Sub (2 rows)  
Indicators - Status LEDs: blue (power supply), green (input signals), orange (output signals)

5. Computer Cable, with the following features:

Type - D-Sub HD connecting cable, crossed  
Number of wires - 16  
Cross section - 0.25 mm<sup>2</sup>  
Plug type - D-Sub HD 15-pin (3 rows)  
Socket type- D-Sub HD-15-pin (3 rows)

	<p>Power rating - Maximum 2 A per wire</p> <p>6. Supply Regulator Valve, with the following features:  Type - diaphragm valve with filter  Assembly position - Vertical <math>\pm 5^\circ</math>  Standard nominal flow rate - 110 l/min  Upstream pressure - 100 to 1000 kPa  Operating pressure - 50 to 700 kPa  Connection type- Coupling plug for coupling socket G1/8</p> <p>7. Control Panel/Console, with the following features:  Function - Control console for Syslink  Membrane keyboard: Start pushbutton with LED, stop pushbutton, Reset push button, with LED, 2 flexibly assignable control lamps, 4 mm safety sockets with LED status display for I/O connection, Syslink and Sub-D sockets for connection to PLC on the rear panel</p> <p>8. Programmable Logic Controller (PLC)  Main memory - Main memory, Memory card included  Interface - 2-port switch, Ethernet, 10 ns bit performance  Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution  Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel  With integrated power supply unit, 110/230 V AC/24 V DC/4 A  With 19" module simulation plate with 2 SysLink plug  With connector for MPS and control panel  With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs.</p> <p>9. PLC Software, with the following programming languages:  Statement list (STL)  Function diagram (FUN)  Ladder diagram (LDR)  Structured Text  Function Sequence Diagram</p> <p>10. Trolley, with the following features:  Height (including rolls unit top edge of trolley) - 750 mm  Width - 350 mm  Length - 700 mm  Material: Aluminum</p> <p>11. Accessories,  Profile plate  Height adjustment  A4 mounting frame  A4 mounting profile  Assembly board</p>	
2.	<p>Handling Station, consisting of the following:</p> <p>1. Pick and Place Module, with the following components:</p> <p>1.1. Pneumatic Linear drive, with the following features:  Mode of operation - Double acting  Shape - piston Round</p>	

Sensing type - Magnetic  
 Type of cushioning Internal cushioning ring  
 (non-adjustable)  
 Protection against torsion - Guide  
 Driver principle - Positive-locking (slot)  
 Guide principle - Plain-bearing guide  
 Piston, nominal size – 12 mm  
 X-stroke - X  
 Minimum stroke for X-stroke - 10 mm  
 Maximum stroke for X-stroke - 600 mm  
 Minimum operating pressure - 2.5 bar  
 Maximum operating pressure - 8 bar  
 Minimum ambient temperature - -10 °C  
 Maximum ambient temperature - 60 °C  
 Air connection type - Female thread  
 Connector thread page 1 - M 5  
 Air connection type connecting thread - Female thread  
 Connector thread page 2 - M 5  
 Effective force (approximate) at 6 bar - 68 N  
 Air consumption at 6 bar/10 mm - 0.0079 l

1.2. Parallel gripper, with the following features:

Mode of operation - Double acting  
 Gripper function - Parallel  
 No. of gripper jaws - 2  
 Drive - 2 cylinders parallel  
 Type of mounting direct - Thread: Hole  
 Sensing type - Magnetic  
 Piston, nominal size - 10  
 Operating pressure min. - 2 bar  
 Operating pressure max. - 8 bar  
 Minimum ambient temperature - 5 °C  
 Maximum ambient temperature - 60 °C  
 Air connection type - Female thread  
 Connector thread - M 3  
 Material of barrel/housing - Kneaded aluminum alloy  
 Material of gripper fingers - Stainless high-alloy steel  
 Material of cover- PA  
 CT criterion - Free of copper and teflon  
 Product weight - 0.068 kg  
 Nominal gripping force, closing - 40 N  
 Nominal gripping force, opening - 47 N  
 Nominal time, opening - 22 ms  
 Nominal time, closing - 31 ms  
 Air consumption at 6 bar per stroke - 0.0025 l  
 Medium - Dried air, lubricated or unlubricated  
 Interchangeability - 0.2 mm  
 Repetition accuracy - 0.04 mm

1.3. Flat Cylinder, with the following features:

Mode of operation - Double acting  
 Shape piston - Oval  
 Shape of piston rod - Round  
 Sensing type - Magnetic  
 Type of cushioning - Internal cushioning ring (non-adjustable)  
 Protection against torsion - Piston shape  
 Piston, nominal size – 18 mm  
 Stroke - 80 mm  
 Piston rod diameter - 8 mm

End of piston rod - Female thread  
 KK Piston rod thread - M 4  
 Operating pressure min. - 1 bar  
 Operating pressure max. - 10 bar  
 Minimum ambient temperature - -20 °C  
 Maximum ambient temperature - 80 °C  
 Bearing cap connection type - Female thread  
 EE Connecting thread for bearing cap - M 5  
 Material of cap - Wrought aluminum alloy  
 Material of seals - FPM, TPE-U(PU)  
 Material of piston rod - Stainless high-alloy steel  
 Material of barrel/housing - Wrought aluminum alloy  
 Total weight at 0 mm stroke - 0.107 kg  
 Additional weight per 10 mm stroke - 0.013 kg  
 Weight of moving load at 0 mm stroke - 0.024 kg  
 Weight of moving load per 10 mm stroke 0,004 kg - 0.024 kg  
 Air connection type cover cap - Female thread  
 EE Connecting thread for end cap - M 5  
 Effective force (approximate) at 6 bar, adv. - 153 N  
 Effect. force (approximate) at 6 bar, return 1- 23 N  
 Maximum Torque - 0.2 Nm  
 Air consumpt.at 6 bar per advance - 0.0178 l

1.4. Valve Kit, CPV, with the following features:

Function - Piloted non-return valve  
 Type of mounting Hole  
 Nominal size non-return 4 mm  
 Air connection type 1 Sub-base  
 Air connection type 2 Female thread  
 Operating pressure min. - 2.5 bar  
 Operating pressure max. - 10 bar  
 Minimum ambient temperature - -10 °C  
 Maximum ambient temperature - 60 °C  
 Minimum medium temperature - -10 °C  
 Maximum medium temperature - 60 °  
 Material of housing - Die-cast zinc  
 Material of seals - NBR-Elastomer  
 Standard nominal flow rate 1->2(S) max. - 160 l/min  
 Standard nominal flow rate 2->1 max. - 220 l/min  
 Switch-on time - 20 ms  
 Switch-off time - 30 ms  
 Medium - Compressed air, filtered

1.5. One way flow control valve, with the following features:

Function - One-way flow control  
 Function air supply/exhaust air - Exhaust air  
 Function restrictor - Adjustable  
 Actuating component - Screw  
 Type of mounting - Screw-in  
 Nominal size flow control - 1.4 mm  
 Nominal size non-return - 1.4 mm C32:C4C32:C47  
 Air connection type 1 - Male thread  
 Air connection type 2 - Push-in  
 Thread for port 1 - M 5  
 Nominal size of tubing connection - 2 4  
 Operating pressure min. - 0.2 bar  
 Operating pressure max. - 10 bar  
 Minimum ambient temperature - -10 °C  
 Maximum ambient temperature - 60 °C

Minimum medium temperature - -10 °C  
 Maximum medium temperature - 60 °C  
 Material of housing - Die-cast zinc  
 Material of seals - NBR-Elastomer  
 Material of screw-in stud - brass  
 Product weight - 0.009 kg  
 Standard nom. flow rate 1->2(S) max. - 40 l/min  
 Standard nom. flow rate 1->2(S) min - 0 l/min  
 Standard nominal flow rate 2->1 max. - 50 l/min  
 Standard nominal flow rate 2->1 min 0 0 l/min  
 Medium - Compressed air, filtered 40 µm (may be lubricated)

1.6. Valve Kit, CPV, with the following features:

Signal processing (measuring principle) – red light  
 Switch triggering – Reflex  
 Function on actuation – Polymer fiber optic cable  
 Coverage range max. – 120 mm  
 Minimum ambient temperature - -40 °C  
 Maximum ambient temperature – 70 °C  
 Mounting thread – M 6  
 Material of housing – brass  
 Product weight – 0.02 kg  
 Coating of housing – Nickel-plated  
 Degree of protection – IP65

1.7. Station link receiver, through beam sensor, with the following features:

Signal processing (measuring principle) – Infrared  
 Switch triggering – Interrupt  
 Function on actuation – Receiver  
 Output potential (el. Output) – PNP  
 Maximum coverage range - 6000 mm  
 Minimum ambient temperature - -5 °C  
 Maximum ambient temperature - 55 °C  
 Air connection type elec. - Plug  
 Thread for connector - M 8x1  
 Number of pins, plug connection - 3  
 Operating status display - Yellow LED  
 Short-circuit strength - Pulsed  
 Protection against incorrect polarity - integrated  
 Voltage type - DC  
 Nominal operating voltage - 24 V  
 Minimum operating voltage - 10 V  
 Maximum operating voltage - 30 V  
 Maximum idle current - 25 mA  
 Maximum switching frequency - 1000 Hz  
 Degree of protection - IP65

1.8. Station link transmitter, through beam sensor, with the following features:

Signal processing - Infrared  
 Switch triggering - Interrupt  
 Function on actuation - sender  
 Coverage range maximum - 6000 mm  
 Minimum ambient temperature -5 °C  
 Maximum ambient temperature - 55 °C  
 Air connection type elec. - Plug  
 Thread for connector - M 8 x 1  
 Number of pins, plug connection - 3

Operating status display - Yellow LED  
 Short-circuit strength - Pulsed  
 Protection against incorrect polarity -integrated  
 Voltage Type - DC  
 Nominal operating voltage - 24 V  
 Minimum operating voltage - 10 V  
 Maximum operating voltage - 30 V  
 Maximum idle current - 25 mA  
 Maximum switching frequency - 1000 Hz  
 Degree of protection - IP65

1.9. Fiber Optic device, Optoelectronic sensor, with the following features

Signal processing (measuring principle) - red light  
 Switch triggering - Reflex/Interrupt  
 Function on actuation - sender and receiver  
 Output potential (el. output) - PNP  
 Maximum coverage range - 120 mm  
 Minimum ambient temperature - -5 °C  
 Maximum ambient temperature - 55 °C  
 Air connection type elec. - Plug  
 Thread for connector - M 8 x 1  
 Number of pins, plug connection - 4  
 Operating status display - Yellow LED  
 Short-circuit strength - Pulsed  
 Protection against incorrect polarity - built-in  
 Type of mounting - Hole  
 Material of housing - PBT-reinforced  
 Product weight - 0.018 kg  
 Voltage Type - DC  
 Nominal operating voltage - 24 V  
 Minimum operating voltage - 10 V  
 Maximum operating voltage - 30 V  
 Maximum idle current - 25 mA  
 Maximum switching frequency - 1000 Hz  
 Degree of protection - IP65

1.10. Solenoid Valve CPV 3/2 way, with the following features:

Switching function - 3/2-way valve, normally open or normally closed  
 Switching function short code - 2-Mar  
 Direction of flow reversible - No  
 Operating principle - Slide  
 Shape of function component - Piston  
 With exhaust flow control - No  
 Type of regulation - Indirect  
 Control type - Monostable  
 Type of reset - Air spring  
 External auxiliary pilot air - Yes  
 Grid dimension - 10 mm  
 Type of mounting - Screw  
 Number of multiple configurations - 2  
 Type of multiple configuration - Battery  
 Installation position - Any  
 Nominal size - 4 mm  
 Minimum operating pressure - -0.9 bar  
 Maximum operating pressure - 10 bar  
 Minimum ambient temperature - -5 °C

Maximum ambient temperature - 50 °C  
 Minimum medium temperature - -5 °C  
 Maximum medium temperature - 50 °C  
 Minimum pilot pressure - 3 bar  
 Type of connection, air supply - Manifold module  
 Air connection type power port - Female thread  
 Air connection type power port - Female thread  
 Type of connection, exhaust - Manifold module  
 Air connection type auxiliary pilot air supply - Manifold module  
 Air connection type auxiliary pilot air exhaust - Manifold module  
 Type pilot control air - Supply and exhaust:  
 External pilot air and air spring, ducted pilot exhaust  
 Actuation/reset - Single solenoid, air spring return

1.11. Solenoid Valve CPV 5/2 way, with the following features:

Switching function - 5/2-way valve  
 Switching function short code - 5 working ports, 2 switching position  
 Direction of flow reversible - No  
 Operating principle - Slide  
 Shape of function component - Piston  
 With exhaust flow control - No  
 Type of regulation - Indirect  
 Control type - Monostable  
 Type of reset - Air spring  
 External auxiliary pilot air - Yes  
 Grid dimension - 10 mm  
 Type of mounting - Screw  
 Number of multiple configurations - 2  
 Type of multiple configuration - Battery  
 Installation position - Any  
 Nominal size - 4 mm  
 Minimum operating pressure - -0.9 bar  
 Maximum operating pressure - 10 bar  
 Minimum ambient temperature - -5 °C  
 Maximum ambient temperature - 50 °C  
 Minimum medium temperature - -5 °C  
 Maximum medium temperature - 50 °C  
 Minimum pilot pressure - 3 bar  
 Type of connection, air supply - Manifold module  
 Air connection type power port - Female thread  
 Air connection type power port - Female thread  
 Type of connection, exhaust - Manifold module  
 Air connection type auxiliary pilot air supply - Manifold module  
 Type pilot control air Supply and exhaust - External pilot air and air spring, ducted pilot exhaust  
 Actuation/reset - Single solenoid, air spring return

1.12. Socket connector cable for sensor and switches (4GD and 3GD), with the following features:

Minimum ambient temperature standard - -40 °C  
 Maximum ambient temperature standard - 70 °C  
 Correlation ambient temperature /hours - Fixed cable installation  
 Minimum ambient temperature screwed-in - -5 °C  
 Maximum ambient temperature limited - 70 °C  
 Ambient temperature class, screwed in - Flexible cable installation  
 Air connection type elec. - Cable/socket

Number of cores - 3  
Core cross section - 0.25 mm<sup>2</sup>  
Length of cable - 2500 mm  
Diameter of connecting cable - 4.5 mm  
Material, cable sheath - TPE-U(PU)  
Degree of protection - IP67

1.13. Relays, with the following features:

Relays per module - 1  
Relay mount - Soldered  
Mount - can be snapped onto 35-mm DIN rail (EN 50 022)  
and 32-mm G-rail (EN 50 035)  
Temperature range - -25 °C to 60 °C  
Rated isolation voltage input/output - 2500 V eff  
Dimensions (W x H x D) - 22.5 mm × 67 mm × 60 mm  
Housing material - Noryl

1.14. Shock Absorber, with the following features:

Function - shock absorber  
Cushioning - self-adjustable  
Type of mounting - Thread + lock nut  
Mounting thread - M 8 x 1  
Piston, nominal size - 5 mm  
Stroke - 5 mm  
Cushioning work per stroke - 1 J  
Cushioning work per hour - 8000 J  
Impact speed max. - 2 m/s  
Maximum impact force - 200 N  
Minimum reset force, advanced position - 0.7 N  
Minimum inward thrust, rear end position - 5.5 N  
Maximum residual energy - 0.01 J  
Piston rod diameter - 2.5 mm  
Minimum ambient temperature - -10 °C  
Maximum ambient temperature - 80 °C  
Reset time, short term - 0.2 s  
Permissible tightening torque - 2 Nm  
Material of seals NBR, TPE-U(PU)  
Material of piston rod - High-alloy steel  
Material of barrel/housing - Steel: Brass  
CT criterion - Free of copper and teflon  
Product weight - 0.009 kg

1.15. Push-in/thread L-fittings, with the following features:

Nominal size connector - 2.4 mm  
Nominal size of tubing connection - 4  
Mounting/connection thread - M 5  
Minimum operating pressure - -0.95 bar  
Maximum operating pressure - 10 bar  
Minimum ambient temperature - 0 °C  
Maximum ambient temperature - 60 °C  
Minimum medium temperature - 0 °C  
Maximum medium temperature - 60 °C  
Material of housing - PBT-reinforced  
Product weight - 0.003 kg  
Medium - Compressed air, filtered

1.16. Start-up valve filter control valve, with the following features:

Medium - Compressed air

Design - Sintered filter with water separator, diaphragm control valve  
 Assembly position - Vertical  $\pm 5^\circ$   
 Standard nominal flow rate - 750 l/min  
 Maximum upstream pressure - 1600 kPa  
 Maximum operating pressure - 1200 kPa  
 Connection - Coupling plug force coupling socket, QS-plug fitting for plastic tubing PUN 6 x 1

- 1.17. Proximity sensor, with reed contact and light emitting diode, without mounting kit, with the following features:  
 Signal processing/type of contact - reed contact  
 Function on actuation - N/O contact  
 Switching accuracy (+/-) - 0.1 mm  
 Minimum ambient temperature standard -  $-20^\circ\text{C}$   
 Maximum ambient temperature standard -  $70^\circ\text{C}$   
 Correlation ambient temperature /hours - Fixed cable installation  
 Maximum ambient temperature screwed-in -  $-5^\circ\text{C}$   
 Ambient temperature class, screwed in - Flexible cable installation  
 Air connection type elec. - Cable with plug  
 Number of cores - 3  
 Core cross section - 0.14 mm<sup>2</sup>  
 Length of cable - 300 mm  
 Number of pins, plug connection - 3  
 Operating status display - Yellow LED  
 Type of mounting slot  
 Material of housing - PET-reinforced  
 Material, cable sheath - PVC-polymer  
 CT criterion - Free of copper and teflon  
 Product weight - 0.01 kg  
 Voltage type - AC/DC  
 Nominal operating voltage - 24 V DC  
 Minimum operating voltage - 12 V DC  
 Maximum operating voltage - 30 V DC  
 Nominal operating voltage - 24 V AC  
 Minimum operating voltage - 12 V AC  
 Maximum operating voltage - 30 V AC  
 Maximum contact rating (DC) - 10 W  
 Maximum contact rating (AC) - 10 VA  
 Maximum switching frequency - 500 Hz
- 1.18. I/O terminals, with the following features:  
 Number of inputs with LED - 8  
 Number of outputs with LED - 8  
 Number of terminals 0 V - 22  
 Number of terminals 24 V - 12  
 Connector – Amphenol Tuchel 24-pin, 57 GE series
- 1.19. Silencer, with the following features:  
 Air connection type - Male thread  
 Connector thread - M 5  
 Operating pressure min. - 0 bar  
 Operating pressure max. - 10 bar  
 Minimum ambient temperature -  $-10^\circ\text{C}$   
 Maximum ambient temperature -  $70^\circ\text{C}$   
 Sound pressure level - 70 dB(A)  
 Standard nominal flow rate - 90 l/min

Material of screw-in stud – brass

- 1.20. Slide module (with a retainer for mounting on a profile plate), with the following features:  
Application: - As end slide or segregating slide  
Length - 250 mm  
Standard height - 117 – 200 mm (adjustable)
- 1.21. Plastic tubing, 4 mm, with the following features:  
Nominal size of tubing - 4 mm  
Internal diameter - 2.6 mm  
Outside diameter - 4 mm  
Minimum bending radius - 17 mm  
Minimum operating pressure - -0.95 bar  
Maximum operating pressure at 20°C - 10 bar  
Maximum operating pressure at 30°C - 10 bar  
Maximum operating pressure at 40°C - 9 bar  
Maximum operating pressure at 60°C - 7 bar  
Suitable for vacuum - Yes  
Minimum ambient temperature - -35 °C  
Maximum ambient temperature - 60 °C  
Material of tubing - TPE-U(PU)  
Product weight per meter - 0.0089 kg/m  
Color - blue  
Length – 10 m
- 1.22. Plastic tubing, 6 mm, with the following features:  
Nominal size of tubing – 6 mm  
Internal diameter 4 mm  
Outside diameter 6 mm  
Minimum bending - 26.5 mm  
Minimum operating pressure - -0.95 bar  
Maximum operating pressure at 20°C - 10 bar  
Maximum operating pressure at 30°C - 10 bar  
Maximum operating pressure at 40°C - 9 bar  
Maximum operating pressure at 60°C - 7 bar  
Minimum ambient temperature - -35 °C  
Maximum ambient temperature - 60 °C  
Material of tubing - TPE-U(PU)
2. Programmable Logic Controller (PLC), with the following features:  
Main memory - Main memory, Memory card included  
Interface - 2-port switch, Ethernet, 10 ns bit performance  
Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution  
Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel  
With integrated power supply unit, 110/230 V AC/24 V DC/4 A  
With 19" module simulation plate with 2 SysLink plug  
With connector for MPS and control panel  
With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs
3. PLC Software, with the following programming languages:  
Statement list (STL)  
Function diagram (FUN)

	<p>Ladder diagram (LDR) Structured Text Function Sequence Diagram</p> <p>4. Trolley, with the following features: Material - Aluminum Height (including castors, to bottom edge of profile plate) - 750 mm Width - 350 mm Depth - 700 mm</p> <p>5. Profile plate, with the following features: Material - Aluminum Length x width - 350 x 700 mm Grid Dimension - 50 mm</p>	
3.	<p>Processing Station, consisting of the following:</p> <p>1. Clamping/ejecting module, with the following features: For mounting on a profile plate An electrical solenoid is used for the drive</p> <p>2. Drilling module, with the following features: Nominal voltage - 24 V Nominal power output - 50 W Connection - 2-wire cable (min. 0.5 mm) Clamping range of drill chuck – 1 to 6 mm Service life - 200 hours Weight - 400 g Height - 360 mm Working stroke - 100 mm Nominal current DC motor- 0.3 A Nominal current - 0.5 A</p> <p>3. Gear Motor, with the following features: Nominal voltage - 24 V DC Nominal current - 0.31 A Rated output power - 3.14 W Nominal rotational speed - 3000 rpm Efficiency of transmission - 0.72 Stages of gear box - 2 Reduction gear ratio i:1 - 20,25 Nominal torque - 80 N-cm Weight - 160 g Electrical connection - Cable with cable-end sleeves</p> <p>4. Rotary indexing table module, with the following features: Number of workpiece positions - 6 Table is driven by a DC geared motor with a series resistor. Diameter - 350 mm Height - 125 mm Nominal Voltage - 24 V Nominal rotational speed - 6 rpm (with series resistor 47) Nominal current - 0.15 A (with series resistor 47) Nominal current - 0.5 A</p> <p>5. Socket connector cable for sensor and switches, with the following features: Minimum ambient temperature standard - -40 °C Maximum ambient temperature standard - 70 °C</p>	

	<p>Correlation ambient temperature/hours - Fixed cable installation  Maximum ambient temperature, screwed-in - -5 °C  Maximum ambient temperature, limited - 70 °C  Air connection type elec. - Cable/socket  Number of cores - 3  Core cross section - 0.25 mm<sup>2</sup>  Length of cable - 2500 mm  Diameter of connecting cable - 4.5 mm  Material, cable sheath - TPE-U(PU)  Degree of protection - IP67</p> <p>6. Relays, with the following features  Relays per module - 1  Relay mount - Soldered  Mount - can be snapped onto 35-mm DIN rail (EN 50 022) and 32-mm G-rail (EN 50 035)  Temperature range - -24 °C to + 60 °C  Rated isolation voltage input/output - 2500 V eff  Dimensions (W x H x D) - 22.5 mm x 67 mm x 60 mm  Housing material - Noryl  CE Compliance – Yes</p> <p>7. Sensor, inductive, with the following features:  EU conformity (CE) - CE  Note on EU conformity - Electromagnetic compatibility  Signal processing/type of contract - Inductive  Function on actuation - N/O contact  Output potential (el. Output) - PNP  Nominal switching distance (sn) - 2.5 mm  Minimum actual switching distance (sr) - 2.5 mm  Maximum actual switching distance (sr) - 2.75 mm  Minimum effective switching distance (su) - 2.03 mm  Maximum effective switching distance (su) - 3.03 mm  Guaranteed switching distance (sa) - 2.03 mm  Reproducibility - 0.125 mm  Minimum ambient temperature standard - -25 °C  Maximum ambient temperature standard - 85 °C  Air connection type elec. - Plug  Thread for connector - M 8x1  Number of pins, plug connection - 3  Operating status display - Yellow LED  Short-circuit strength - Pulsed  Protection against incorrect polarity - integrated  Type of mounting - Thread + lock nut  Type of installation - Not flush  Mounting thread - M 8x1  Material of housing - Stainless high-alloy steel  Material, cable sheath - TPE-U (PU)  CT criterion - Free of copper and teflon  Product weight - 0.02 kg  Voltage type - DC  Nominal operating voltage - 24 V  Minimum operating voltage - 15 V  Maximum operating voltage - 34 V</p> <p>8. Sorting gate module, with the following features:  Branch module, electrical  For mounting on a profile plate</p>	
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An electrical solenoid is used for the drive

9. Station link Receiver, through beam sensor, with the following features:

EU conformity (CE) - CE  
Note on EU conformity - Electromagnetic compatibility  
Signal processing (measuring principle) - Infrared  
Switch triggering - Interrupt  
Function on actuation - Receiver  
Output potential (el. Output) - PNP  
Coverage range - max. 6000 mm  
Minimum ambient temperature - -5 °C  
Maximum ambient temperature - 55 °C  
Air connection type elec. - Plug  
Thread for connector - M 8 x 1  
Number of pins, plug connection - 3  
Operating status display - Yellow LED  
Short-circuit strength - Pulsed  
Protection against incorrect polarity - Integrated  
Voltage Type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum operating voltage - 30 V  
Maximum Idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

10. Station link transmitter, through beam sensor, with the following features:

EU conformity (CE) - CE  
Note on EU conformity - Electromagnetic compatibility  
Signal processing (measuring principle) - Infrared  
Switch triggering - Interrupt  
Function on actuation - Sender  
Coverage range - max. 6000 mm  
Minimum ambient temperature - -5 °C  
Maximum ambient temperature - 55 °C  
Air connection type elec. - Plug  
Thread for connector - M 8x1  
Number of pins, plug connection - 3  
Operating status display - Yellow LED  
Short-circuit strength - Pulsed  
Protection against incorrect polarity - Integrated  
Voltage Type - DC  
Nominal operating voltage - 24 V  
Minimum operating voltage - 10 V  
Maximum Operating voltage - 30 V  
Maximum idle current - 25 mA  
Maximum switching frequency - 1000 Hz  
Degree of protection - IP65

11. Micro Switch, with the following features:

EU conformity (CE) - CE  
Note on EU conformity - Low voltage  
For semi-rotary drives  
The switching point may only be exceeded by 0.5mm

12. Solenoid actuator (2 pcs), with the following features:

Working stroke: 10 mm  
Voltage: 24V DC  
Output: 7 W

13. Capacitive Sensor, with the following features:

Switching voltage - 12—48 V DC  
Output function - Normally open, positive switching (PNP)  
Nominal switching distance - 10mm  
Hysteresis - s20%  
Maximum output current - 200 mA  
Reproducible switching point at constant temperature -  $\pm 0.01$ mm  
Maximum switching frequency - 25 Hz  
No-load current - 20 mA  
Permissible ambient operating temperature - -10 °C - +50 °C  
Protection against polarity reversal - Integrated  
Short-circuit proof - Yes  
Protection class - IP65  
Size - M18  
Type of mounting - Non flush  
Emitted interference - Noise immunity tested to EN 500 82-1  
Connection cable - 3 Pin

14. I/O terminals, with the following features:

Number of inputs with - LED 8  
Number of outputs with - LED 8A  
Number of terminals 0V - 22  
Number of terminals 24V - 12  
Connector - Amphenol-Tuchel 24-pin, 57 GE series

15. Programmable Logic Controller (PLC), with the following features:

Main memory - Main memory, Memory card included  
Interface - 2-port switch, Ethernet, 10 ns bit performance  
Inputs/outputs - 32 digital inputs (24 V DC), 32 digital inputs (24 V DC/0.5A), 8 analog inputs, 8 U/I/RTD/TC, 16-bit resolution, 4 analog outputs, 4x U/t, 16-bit resolution  
Mounting system - Size (W x H): - 305 mm x 300 mm, powder-coated, sheet-steel  
With integrated power supply unit, 110/230 V AC/24 V DC/4 A  
With 19" module simulation plate with 2 SysLink plug  
With connector for MPS and control panel  
With 8 digital inputs and 8 digital outputs and 1 Sub-D 15 Pin plug connection with 4 analog inputs and 2 analog outputs, emergency stop jumper to connect a safety circuit for disconnecting 8 digital outputs

16. PLC Software, with the following programming languages:

Statement list (STL)  
Function diagram (FUN)  
Ladder diagram (LDR)  
Structured Text  
Function Sequence Diagram

17. Trolley, with the following features:

Material - Aluminum  
Height (including castors, to bottom edge of profile plate) - 750 mm  
Width - 350 mm  
Depth - 700 mm

	<p>18. Profile plate, with the following features:  Material - Aluminum  Length x Width – 350 mm x 700 mm  Grid Dimension: 50 mm</p> <p>System Requirements:  Windows 7 (64-bit) Professional/Enterprise/Ultimate SP1  Windows 10 (64-bit) Professional/Enterprise 1703</p> <p>System Recommendations:  Core i5-6440EQ, 3, 4 GHz  16 GB RAM  1920 x 1080 Pixel  SSD, at least 50 GB of free hard drive space</p> <p>The Three-Station Modular Production System must be supplied with the following:  Software and documentation supplied on DVD  Floating license supplied on USB Stick</p>																									
4.	<p>Collaborative Robot, with the following features:</p> <p>Performance:  Repeatability - <math>\pm 0.1\text{mm} / \pm 0.0039\text{ in}</math> (4 mils)  Ambient temperature range - <math>0\text{-}50\text{ }^{\circ}\text{*}</math>  Power consumption - Min 90 W, Typical 125 W, Max 250 W  Collaboration operation - 15 advanced adjustable safety functions</p> <p>Specification:  Payload – 3 kg / 6.6 lbs.  Reach – 500 mm / 19.7 in.  Degrees of freedom - 6 rotating joints  Programming - Polyscope graphical user interface on 12 inch</p> <p>Movement:</p> <table border="0"> <thead> <tr> <th>Axis movement robot arm:</th> <th>Working range:</th> <th>Maximum speed:</th> </tr> </thead> <tbody> <tr> <td>Base</td> <td><math>\pm 360\text{ }^{\circ}</math></td> <td><math>\pm 180\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Shoulder</td> <td><math>\pm 360\text{ }^{\circ}</math></td> <td><math>\pm 180\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Elbow</td> <td><math>\pm 360\text{ }^{\circ}</math></td> <td><math>\pm 180\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Wrist 1</td> <td><math>\pm 360\text{ }^{\circ}</math></td> <td><math>\pm 180\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Wrist 2</td> <td><math>\pm 360\text{ }^{\circ}</math></td> <td><math>\pm 180\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Wrist 3</td> <td>Infinite</td> <td><math>\pm 360\text{ }^{\circ}/\text{Sec.}</math></td> </tr> <tr> <td>Typical tool in/Sec.</td> <td></td> <td>1 m/Sec./39.4</td> </tr> </tbody> </table> <p>Features:  IP Classification - IP 64  ISO Class Cleanroom - 5  Noise - 70dB(A)  Robot Mounting – Any</p> <p>I/O ports:  Digital in - 2  Digital out - 2  Analog in - 2  Analog out - 0  I/O power supply in tool: 12 V/24 V 600 mA in tool</p> <p>Physical:  Footprint - <math>\text{Ø} 128\text{mm}</math></p>	Axis movement robot arm:	Working range:	Maximum speed:	Base	$\pm 360\text{ }^{\circ}$	$\pm 180\text{ }^{\circ}/\text{Sec.}$	Shoulder	$\pm 360\text{ }^{\circ}$	$\pm 180\text{ }^{\circ}/\text{Sec.}$	Elbow	$\pm 360\text{ }^{\circ}$	$\pm 180\text{ }^{\circ}/\text{Sec.}$	Wrist 1	$\pm 360\text{ }^{\circ}$	$\pm 180\text{ }^{\circ}/\text{Sec.}$	Wrist 2	$\pm 360\text{ }^{\circ}$	$\pm 180\text{ }^{\circ}/\text{Sec.}$	Wrist 3	Infinite	$\pm 360\text{ }^{\circ}/\text{Sec.}$	Typical tool in/Sec.		1 m/Sec./39.4	
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Typical tool in/Sec.		1 m/Sec./39.4																								

	Materials: Aluminum, PP plastics Tool connector type - M8 Cable length robot arm - 6m / 236 in Weight with cable - 11kg / 24.3 lbs. Reduction gear ratio i:1 - 20,25 Nominal torque - 80 Ncm Gripper Total Stroke: 0-110mm Gripping Force: 3-40NM (Adjustable) Working Temp: 0-60 Degrees Celsius IP Classification: IP54 Weight: 0.78kg	
	I year warranty With training	

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

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

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

## Omnibus Sworn Statement

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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:**

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

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

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

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

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

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

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

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

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

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

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

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

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

\_\_\_\_\_  
Bidder's Representative/Authorized Signatory

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

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

**NAME OF NOTARY PUBLIC**

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

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

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

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

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

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

# [Bidder's Letterhead]

[Date]

## FINANCIAL BID FORM

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

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

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

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

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

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

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

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

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

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

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
[signature]

\_\_\_\_\_  
[in the capacity of]

Duly authorized to sign Bid for and on behalf of \_\_\_\_\_

# [*Bidder's Letterhead*]

[Date]

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

## SCHEDULE OF PRICES

Item No.	Description	Qty.	Unit	Unit Price	Total Price
Lot No. 2 – Three-Station Modular Production System and Robotics System, comprising of the following:					
1.	Distributing/Conveyor Station	1	set		
2.	Handling Station	1	set		
3.	Processing Station	1	set		
4.	Collaborative Robot	1	pc		
<b>Total Bid Price</b>					

[Signature]

[Name of Authorized Signatory]

[Position/Title of Authorized Signatory]