

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

PROCUREMENT OF LABORATORY EQUIPMENT FOR THE COLLEGE OF ENGINEERING AT NORSU BAJUMPANDAN CAMPUS

Government of the Republic of the Philippines

**Sixth Edition
July 2020**

Preface

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

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

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

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

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

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

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	4
Section I. Invitation to Bid.....	7
Section II. Instructions to Bidders.....	11
1. Scope of Bid	12
2. Funding Information.....	12
3. Bidding Requirements	12
4. Corrupt, Fraudulent, Collusive, and Coercive Practices	13
5. Eligible Bidders.....	13
6. Origin of Goods	13
7. Subcontracts	13
8. Pre-Bid Conference	14
9. Clarification and Amendment of Bidding Documents	14
10. Documents comprising the Bid: Eligibility and Technical Components	14
11. Documents comprising the Bid: Financial Component	14
12. Bid Prices	15
13. Bid and Payment Currencies	15
14. Bid Security	16
15. Sealing and Marking of Bids	16
16. Deadline for Submission of Bids	16
17. Opening and Preliminary Examination of Bids	16
18. Domestic Preference	17
19. Detailed Evaluation and Comparison of Bids	17
20. Post-Qualification	17
21. Signing of the Contract	17
Section III. Bid Data Sheet	18
Section IV. General Conditions of Contract	22
1. Scope of Contract	23
2. Advance Payment and Terms of Payment	23
3. Performance Security	23
4. Inspection and Tests	23
5. Warranty	24
6. Liability of the Supplier	24
Section V. Special Conditions of Contract	25
Section VI. Schedule of Requirements	29
Section VII. Technical Specifications	29
Section VIII. Checklist of Technical and Financial Documents	46

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

Notes on the Invitation to Bid

The Invitation to Bid (IB) provides information that enables potential Bidders to decide whether to participate in the procurement at hand. The IB shall be posted in accordance with Section 21.2 of the 2016 revised IRR of RA No. 9184.

Apart from the essential items listed in the Bidding Documents, the IB should also indicate the following:

- a. The date of availability of the Bidding Documents, which shall be from the time the IB is first advertised/posted until the deadline for the submission and receipt of bids;
- b. The place where the Bidding Documents may be acquired or the website where it may be downloaded;
- c. The deadline for the submission and receipt of bids; and
- d. Any important bid evaluation criteria (*e.g.*, the application of a margin of preference in bid evaluation).

The IB should be incorporated in the Bidding Documents. The information contained in the IB must conform to the Bidding Documents and in particular to the relevant information in the Bid Data Sheet.



RA 9299

Republic of the Philippines

June 25, 2004

NEGROS ORIENTAL STATE UNIVERSITY

NOPS (1907)

NOTS (1927)

EVSAT (1968)

CVPC (1983)

Kagawasan Avenue, Dumaguete City, Negros Oriental, Philippines 6200

Phone: (63) (35) 225-9400 Fax: 225-4751 Email: president.office@norsu.edu.ph www.norsu.edu.ph



18Q19869

INVITATION TO BID FOR
PROCUREMENT OF LABORATORY EQUIPMENT FOR THE COLLEGE OF
ENGINEERING AT NORSU BAJUMPANDAN CAMPUS
GOOD2020-10-07

1. The Negros Oriental State University (NORSU) and the Bids and Awards Committee (BAC), through **General Appropriation Act (GAA) 2020** intends to apply the total sum of **Twelve Million Six Hundred Thirty-One Thousand Five Hundred Pesos Only (PHP 12,631,500.00)** being the Approved Budget for the Contract (ABC)

em	Description	QTY	ABC	Price of Bid Documents in Peso (Cash payment only)
1	Branded Large 3D Printer With Windows Compatible Driver	1 set	500,000.00	500.00
2	Accelerometer	1 set	300,000.00	500.00
3	Motor-Generator Set for EE laboratory experiment	1 set	1,500,000.00	5,000.00
4	Digital Hydraulic Bench	1 set	400,000.00	500.00
5	Microwave Equipment(Digital Laboratory Oven)	1 pc	200,000.00	500.00
6	Energy Data Logger	1 set	101,500.00	500.00
7	SuOrsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries	1 set	400,000.00	500.00
8	150 MHz Digital Oscilloscope	1 set	200,000.00	500.00
9	Data and Optical Network Laboratory Equipment - Networking Training	1 Set	400,000.00	500.00
10	Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows	1 set	630,000.00	1,000.00
11	Smart Factory Trainer - Industry 4.0	1 set	5,000,000.00	5,000.00
12	SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)	1 set	3,000,000.00	5,000.00
Total ABC for All Items:			12,631,500.00	

If the bidder shall bid on all the items, the bid documents fee is pegged at Php **25,000.00**. Bids received in excess of the ABC for each lot/item shall be automatically rejected at bid opening.

2. The **Negros Oriental State University (NORSU)** now invites bids for 12 items in the procurement for *Procurement of Laboratory Equipment for Engineering, Agriculture, Pharmacy, Geology, Chemistry and Other Discipline for Norsu Campuses*. **Delivery of the Goods is required within Ninety (90) calendar days upon receipt of notice to proceed.** Bidders should have completed, within five (5) years from the date of submission and receipt of bids, a contract similar to the Project, equivalent to at least fifty percent (50%) of the ABC. 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 **NORSU BAC Secretariat** and inspect the Bidding Documents at the address given below during **Mondays to Fridays at 9:00 AM to 3:00 PM**.

5. A complete set of Bidding Documents may be purchased by interested bidders Mondays to Fridays during office hours from October 20– November 4, 2020 at the **NORSU-BAC Secretariat** upon payment of a non-refundable fee as indicated above in a form of cash to be paid at the University Cashier, NORSU Main Campus, Dumaguete City. Note: For lot/item procurement, the maximum fee for the Bidding Documents for each lot/item shall be based on its ABC, in accordance with the Guidelines issued by the GPPB; provided that the total fees for the Bidding Documents of all lots/items shall not exceed the maximum fee prescribed in the Guidelines for the sum of the ABC of all lots/items.

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 significant date and time for the above project are as follows:

ACTIVITIES	TIME AND DATE	VENUE
PRE-BID CONFERENCE	<u>October 23, 2020 at 10:00AM</u>	BAC Office, 2 nd Floor Supply Building at NORSU Main Campus
DEADLINE OF SUBMISSION OF BIDS	<u>November 5, 2020 at 10:30AM</u>	
OPENING OF BIDS	<u>November 5, 2020 at 11:00AM</u>	

8. Bidders are encouraged to attend the Pre-Bid Conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the bidders will in no way prejudice their bid; however, the bidder is expected to know the changes and/or amendments to the Bidding.
9. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 18.
10. If Bids are submitted by a representative, the said representative may have Special Power of Attorney authorizing him/her to represent the bidder for the said Bidding Activity. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.
11. The link for the videoconference for the Pre-Bid Conference and the Opening of Bids shall be <https://msngr.com/JnDicFB5JeajELcZ>.
12. In compliance with GPPB issued Resolution No. 09-2020, the following internal guidelines were being formulated:
 - (i) The BAC allows the use of videoconferencing, webcasting and similar technology in the conduct of any of the meetings and determination of quorum by the BAC. Please contact us if cannot attend personally.
 - (ii) The BAC considers the submission of documents thru email with e-signature/digital signature provided that the document submitted shall include attached valid government ID of the duly authorized person representing the company. Also, provided that the bid submission is received on or before the scheduled opening of bids. Provided further that the bidder shall also send the actual bid documents thru courier services, the tracking receipt shall be sent as an attachment to the email or a separate email on or before the scheduled opening of bids.

- (iii) If the hard copies of the bid documents cannot be sent on or before the opening of bids due to fortuitous events, the bidder shall email the BAC on such impediment and attach a signed Certification attesting to the case. The tracking receipt will be emailed on the date the hard copies of the bid documents were sent.
 - (iv) All online submission of bids shall be sent to the email address: onlinebidssubmission.norsubac@norsu.edu.ph.
 - (v) All online submissions shall conform to Number 4.2 of GPPB RESOLUTION NO. 09-2020 on the requirement of archived and compressed format with password protection. All documents sent with no passwords will be treated as NON-COMPLIANT by the Bids and Awards Committee and will automatically be disqualified.
 - (vi) The filename of the online bid submission shall be in the following format:
“NORSU Project Reference Number” + “Company Name” + “First Envelope” + “File Number (if applicable)”
 - (vii) All scanned documents for online submission must be in **compiled** in pdf format or equivalent read only format. The chronological order based on the checklist of requirements must be strictly followed. In the event the file is above 25MB, a separate file may be submitted bearing the added file number.
 - (viii) The bidder must be present virtually if not available to come during the opening of bids. The bidder must use the virtual meeting as indicated in the Instruction to Bidders. Once called by the BAC for the opening of the bid file submitted thru email, the bidder shall provide the password for opening the file. The bidder may provide the password thru video call, teleconferencing, text message or call the BAC Secretariat during the opening of bids ONLY.
 - (ix) Passwords emailed before the opening of bids will not be allowed.
 - (x) The BAC Secretariat shall be responsible for the audit trail of all emailed bid submissions and shall immediately confirm the receipt of the emailed online submission of the bidder.
 - (xi) Modification of bids shall comply with the provisions under **Number 5.4 of the GPPB RESOLUTION NO. 09-2020**. The format shall be as follows:
“Modification” + **“NORSU Project Reference Number”** + “Company Name” + “First Envelope” + “File Number (if applicable)”
 - (xii) All inquiries on the conduct of procurement activities may be done thru the following emails:
norsubacsec@gmail.com
norsuregistrar@yahoo.com
13. The **Negros Oriental State University (NORSU)-BAC** 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 Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

NORSU BAC SECRETARIAT
Kagawasan, Avenue, Dumaguete City
Tel No.: (035) 225-6393 local: 336
Cel. No.: 0936-315-4839/0936-890-3622

MERIVIC G. CATADA, Ph.D.
 University BAC Chair

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

This Section on the Instruction to Bidders (ITB) provides the information necessary for bidders to prepare responsive bids, in accordance with the requirements of the Procuring Entity. It also provides information on bid submission, eligibility check, opening and evaluation of bids, post-qualification, and on the award of contract.

1. Scope of Bid

The Procuring Entity, *Negros Oriental State University (NORSU)* wishes to receive Bids for the **PROCUREMENT OF LABORATORY EQUIPMENT FOR THE COLLEGE OF ENGINEERING AT NORSU BAJUMPANDAN CAMPUS** (GOOD2020-10-17)

The Procurement Project (referred to herein as “Project”) is composed of:

Item	Description	QTY	ABC
1	Branded Large 3D Printer With Windows Compatible Driver	1 set	500,000.00
2	Accelerometer	1 set	300,000.00
3	Motor-Generator Set for EE laboratory experiment	1 set	1,500,000.00
4	Digital Hydraulic Bench	1 set	400,000.00
5	Microwave Equipment(Digital Laboratory Oven)	1 pc	200,000.00
6	Energy Data Logger	1 set	101,500.00
7	Orsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries	1 set	400,000.00
8	150 MHzDigital Oscilloscope	1 set	200,000.00
9	Data and Optical Network Laboratory Equipment - Networking Training	1 Set	400,000.00
10	Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows	1 set	630,000.00
11	Smart Factory Trainer - Industry 4.0	1 set	5,000,000.00
12	SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)	1 set	3,000,000.00

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 **2020** in the total amount of ***Twelve Million Six Hundred Thirty-One Thousand Five Hundred Pesos Only (PHP 12,631,500.00)***.

2.2. The source of funding is:

- a. GOCC and GFIs, the Corporate Operating Budget.

3. Bidding Requirements

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

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

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and

examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

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 shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA’s CPI, must be at least equivalent to:
 - a. **For the procurement of Non-expendable Supplies and Services: The Bidder must have completed a single contract that is similar to the ITEM/Project, equivalent to at least 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.

- 7.4 Subcontracting of any portion of the Project does not relieve the Supplier of any liability or obligation under the Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants, or workmen

as fully as if these were the Supplier's own acts, defaults, or negligence, or those of its agents, servants, or workmen.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address {[BAC Office, 2nd Floor, Supply Bldg at *NORSU Main Campus, Dumaguete City*] and/or through videoconferencing/webcasting} as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **five 5 years** [*state relevant period as provided in paragraph 2 of the IB*] 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:
- a. Philippine Pesos.

14. Bid Security

- 14.1. The Bidder shall submit a Bid Securing Declaration¹ 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 *One Hundred Twenty (120) days*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened 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.

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated “passed,” using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows:

Option 3 - One Project having several items, which shall be awarded as separate contracts per item.

- 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

- 20.2. 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, *{[Include if Framework Agreement will be used:]}* or in the case of multi-year Framework Agreement, that it is one of the eligible bidders who have submitted bids that are found to be technically and financially compliant, 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

Notes on the Bid Data Sheet

The Bid Data Sheet (BDS) consists of provisions that supplement, amend, or specify in detail, information, or requirements included in the ITB found in Section II, which are specific to each procurement.

This Section is intended to assist the Procuring Entity in providing the specific information in relation to corresponding clauses in the ITB and has to be prepared for each specific procurement.

The Procuring Entity should specify in the BDS information and requirements specific to the circumstances of the Procuring Entity, the processing of the procurement, and the bid evaluation criteria that will apply to the Bids. In preparing the BDS, the following aspects should be checked:

- a. Information that specifies and complements provisions of the ITB must be incorporated.
- b. Amendments and/or supplements, if any, to provisions of the ITB as necessitated by the circumstances of the specific procurement, must also be incorporated.

Bid Data Sheet

ITB Clause																																																													
5.3	For this purpose, contracts similar to the Project shall be: a. Various Laboratory Equipments b. Completed within five (5) years prior to the deadline for the submission and receipt of bids.																																																												
7.1	<i>Subcontracting is not allowed.</i>																																																												
12	The price of the Goods shall be quoted DDP <i>[state place of destination]</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.																																																												
14.1	<p>The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:</p> <p>a. The amount of not less than _____ <i>[Indicate the amount equivalent to two percent (2%) of ABC]</i>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</p> <p>b. The amount of not less than _____ <i>[Indicate the amount equivalent to five percent (5%) of ABC]</i> if bid security is in Surety Bond.</p> <p>Separate Bid Security for each Lot being bid.</p> <table><tr><th>Item</th><th>Description</th><th>QTY</th><th>ABC</th><th>The amount of not less than[Insert 2% of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit ; or</th><th>The amount of not less than [Insert 5% of ABC] if bid security is in Surety Bond.</th></tr><tr><td>1</td><td>Branded Large 3D Printer With Windows Compatible Driver</td><td>1 set</td><td>500,000.00</td><td>10,000.00</td><td>25,000.00</td></tr><tr><td>2</td><td>Accelerometer</td><td>1 set</td><td>300,000.00</td><td>6,000.00</td><td>15,000.00</td></tr><tr><td>3</td><td>Motor-Generator Set for EE laboratory experiment</td><td>1 set</td><td>1,500,000.00</td><td>30,000.00</td><td>75,000.00</td></tr><tr><td>4</td><td>Digital Hydraulic Bench</td><td>1 set</td><td>400,000.00</td><td>8,000.00</td><td>20,000.00</td></tr><tr><td>5</td><td>Microwave Equipment(Digital Laboratory Oven)</td><td>1 pc</td><td>200,000.00</td><td>4,000.00</td><td>10,000.00</td></tr><tr><td>6</td><td>Energy Data Logger</td><td>1 set</td><td>101,500.00</td><td>2,030.00</td><td>5,075.00</td></tr><tr><td>7</td><td>Orsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries</td><td>1 set</td><td>400,000.00</td><td>8,000.00</td><td>20,000.00</td></tr><tr><td>8</td><td>150 MHzDigital Oscilloscope</td><td>1 set</td><td>200,000.00</td><td>4,000.00</td><td>10,000.00</td></tr><tr><td>9</td><td>Data and Optical Network Laboratory Equipment - Networking Training</td><td>1 Set</td><td>400,000.00</td><td>8,000.00</td><td>20,000.00</td></tr></table>	Item	Description	QTY	ABC	The amount of not less than[Insert 2% of ABC], if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit ; or	The amount of not less than [Insert 5% of ABC] if bid security is in Surety Bond.	1	Branded Large 3D Printer With Windows Compatible Driver	1 set	500,000.00	10,000.00	25,000.00	2	Accelerometer	1 set	300,000.00	6,000.00	15,000.00	3	Motor-Generator Set for EE laboratory experiment	1 set	1,500,000.00	30,000.00	75,000.00	4	Digital Hydraulic Bench	1 set	400,000.00	8,000.00	20,000.00	5	Microwave Equipment(Digital Laboratory Oven)	1 pc	200,000.00	4,000.00	10,000.00	6	Energy Data Logger	1 set	101,500.00	2,030.00	5,075.00	7	Orsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries	1 set	400,000.00	8,000.00	20,000.00	8	150 MHzDigital Oscilloscope	1 set	200,000.00	4,000.00	10,000.00	9	Data and Optical Network Laboratory Equipment - Networking Training	1 Set	400,000.00	8,000.00	20,000.00
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	10	Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows	1 set	630,000.00	12,600.00	31,500.00
	11	Smart Factory Trainer - Industry 4.0	1 set	5,000,000.00	100,000.00	250,000.00
	12	SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)	1 set	3,000,000.00	60,000.00	150,000.00
15	Each Bidder shall submit one (1) original and two (2)copies of the first and second components of its bid					
19.3	Item	Description	QTY	ABC		
	1	Branded Large 3D Printer With Windows Compatible Driver	1 set	500,000.00		
	2	Accelerometer	1 set	300,000.00		
	3	Motor-Generator Set for EE laboratory experiment	1 set	1,500,000.00		
	4	Digital Hydraulic Bench	1 set	400,000.00		
	5	Microwave Equipment(Digital Laboratory Oven)	1 pc	200,000.00		
	6	Energy Data Logger	1 set	101,500.00		
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	8	150 MHzDigital Oscilloscope	1 set	200,000.00		
	9	Data and Optical Network Laboratory Equipment - Networking Training	1 Set	400,000.00		
	10	Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows	1 set	630,000.00		
	11	Smart Factory Trainer - Industry 4.0	1 set	5,000,000.00		
	12	SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)	1 set	3,000,000.00		
PROCUREMENT OF LABORATORY EQUIPMENT FOR THE COLLEGE OF ENGINEERING AT NORSU BAJUMPANDAN CAMPUS						
20.2	<i>Post-qualification documents:</i> <ul style="list-style-type: none">i. SEC/DTI Registration; SEC/DTI Registration;ii. Valid & Current Mayor’s Permit/ Municipal Licenses–Year 2020;iii. Valid Tax Clearance per Executive Order 398, Series of 2005;iv. Certificate of VAT Registration;v. Certificate of PhilGEPS Registration:vi. Any proof of enrollment in the Electronic Filing and Payments System (EFPS);vii. Latest income and business tax returns;viii. General Information Sheet for CY2019 or 2020 (for corporation);ix. Company Profile and List of Clients;x. Manufacturer’s Certification: ISO 9001 compliant for at least 10 years for items offered.					

21.2	<p>Warranty Security – The obligation for the warranty shall be covered by, at the supplier’s option, either retention money in an amount equivalent to five percent (5%) of every progress payment, or a special bank guarantee equivalent to five percent (5%) of the total Contract Price.</p> <p>Warranty period: One (1) year after acceptance by the Procuring Entity of the delivered items.</p> <p>Consistent with GPPB Resolution No. 30-2017, the obligation of the warranty shall be covered by either retention money in an amount equivalent to five percent (5%) of each payment, or a special bank guarantee equivalent to five percent (5%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period.</p>
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Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

The General Conditions of Contract (GCC) in this Section, read in conjunction with the Special Conditions of Contract in Section V and other documents listed therein, should be a complete document expressing all the rights and obligations of the parties.

Matters governing performance of the Supplier, payments under the contract, or matters affecting the risks, rights, and obligations of the parties under the contract are included in the GCC and Special Conditions of Contract.

Any complementary information, which may be needed, shall be introduced only through the Special 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

Notes on the Special Conditions of Contract

Similar to the BDS, the clauses in this Section are intended to assist the Procuring Entity in providing contract-specific information in relation to corresponding clauses in the GCC found in Section IV.

The Special Conditions of Contract (SCC) complement the GCC, specifying contractual requirements linked to the special circumstances of the Procuring Entity, the Procuring Entity's country, the sector, and the Goods purchased. In preparing this Section, the following aspects should be checked:

- a. Information that complements provisions of the GCC must be incorporated.
- b. Amendments and/or supplements to provisions of the GCC as necessitated by the circumstances of the specific purchase, must also be incorporated.

However, no special condition which defeats or negates the general intent and purpose of the provisions of the GCC should be incorporated herein.

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents – Delivery of the Goods is required <i>within Ninety (90) calendar days</i> upon of receipt of notice to proceed</p> <p>Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:</p> <ul style="list-style-type: none"> i. Original and four copies of the Supplier’s invoice showing Goods’ description, quantity, unit price, and total amount; ii. Delivery receipt detailing number and description of items received signed by the authorized receiving personnel; iii. Original copy of the Manufacturer’s and/or Supplier’s warranty certificate; iv. Certificate of Acceptance and Inspection Report signed by the Procuring Entity’s representative at the Project Site; v. Special Bank Guarantee (may be submitted at the option of the Supplier in lieu of the retention money of 5% of the total contract price); <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered <i>[indicate place of destination]</i>. In accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered <i>[indicate place of destination]</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.”</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is the End User/Supply Office.</p> <p>Incidental Services – The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ul style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided

	that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
	<p>e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.</p> <p>f. <i>Monday to Friday, Office hours technical support/after sales services</i></p> <p>g. <i>Capable of providing technical service/assistance within 24 hours OR next business day on-site (NBDOS) warranty.</i></p> <p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p> <p>Spare Parts – The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier: The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the cost thereof are included in the contract price. The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of three (3) years. Spare parts or components shall be supplied as promptly as possible within 24/7/</p>
	<p>Packaging –</p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier Contract Description Final Destination Gross weight</p>

	<p>Any special lifting instructions</p> <p>Any special handling instructions</p> <p>Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	<p><i>[If partial payment is allowed, state]</i> “The terms of payment shall be as follows: _____.”</p>
4	<p>The inspections and tests that will be conducted are: <i>[Indicate the applicable inspections and tests]</i></p>

Section VI. Schedule of Requirements

The delivery schedule expressed as weeks/months stipulates hereafter a delivery date which is the date of delivery to the project site.

Item Number	Description	Quantity	Total	Delivered, Weeks/Months
	PROCUREMENT OF LABORATORY EQUIPMENT FOR THE COLLEGE OF ENGINEERING AT NORSU BAJUMPANDAN CAMPUS for the ff:			
1	Branded Large 3D Printer With Windows Compatible Driver	1 set	500,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
2	Accelerometer	1 set	300,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
3	Motor-Generator Set for EE laboratory experiment	1 set	1,500,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
4	Digital Hydraulic Bench	1 set	400,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
5	Microwave Equipment(Digital Laboratory Oven)	1 pc	200,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
6	Energy Data Logger	1 set	101,500.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
7	Orsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries	1 set	400,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
8	150 MHzDigital Oscilloscope	1 set	200,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
9	Data and Optical Network Laboratory Equipment - Networking Training	1 Set	400,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
10	Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows	1 set	630,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
11	Smart Factory Trainer - Industry 4.0	1 set	5,000,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt
12	SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)	1 set	3,000,000.00	With 90 calendar days upon affectivity of Notice to Proceed receipt

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for Bidders to respond realistically and competitively to the requirements of the Procuring Entity without qualifying their Bids. In the context of Competitive Bidding, the specifications (*e.g.* production/delivery schedule, manpower requirements, and after-sales service/parts, descriptions of the lots or items) must be prepared to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of transparency, equity, efficiency, fairness, and economy in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation and post-qualification facilitated. The specifications should require that all items, materials and accessories to be included or incorporated in the goods be new, unused, and of the most recent or current models, and that they include or incorporate all recent improvements in design and materials unless otherwise provided in the Contract.

Samples of specifications from previous similar procurements are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate subsection. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods. Deletions or addenda should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized Philippine and international standards should be used as much as possible. Where other particular standards are used, whether national standards or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specific standards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest edition or revision of the relevant standards and codes shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable they should always be followed by the words “*or at least equivalent.*” References to brand names cannot be used when the funding source is the GOP.

Where appropriate, drawings, including site plans as required, may be furnished by the Procuring Entity with the Bidding Documents. Similarly, the Supplier may be requested to provide drawings or samples either with its Bid or for prior review by the Procuring Entity during contract execution.

Bidders are also required, as part of the technical specifications, to complete their statement of compliance demonstrating how the items comply with the specification.

Technical Specifications

Item	Specification	QTY	ABC	Statement of Compliance
				<p><i>[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
1	<p>Branded Large 3D Printer With Windows Compatible Driver</p> <p>COMPATIBLE DRIVER</p> <p>Min of 600x600x1000mm dimension</p> <p>Glass encased platform</p> <p>high quality, strength and speed,</p> <p>easy maintenance</p> <p>upgradable software and modifiable parts for specific applications</p> <p>Connection: USB, SD card, WIFI or Internet</p> <p>Online and offline printing</p> <p>Display: Touch screen digital display</p> <p>Input voltage: 220V</p> <p>Operating System: Windows</p>	1 set	500,000.00	

	<p>3D Supporting Software compatibility: 3Ds Max, CAD, Solidworks</p> <p>Printing speed: min. of 250 mm/sec</p> <p>Dual nozzle: 0.25, 0.4, 0.6, 0.8, 1 mm</p> <p>Roll of filament of 10 different colors</p> <p>Metal frame</p> <p>Low-noise operation: 30-50 decibels</p> <p>High speed and high precision nozzle</p> <p>Automatic levelling</p> <p>Filament sensor</p> <p>Cooling fan on nozzle</p> <p>Anti-collision nozzle</p> <p>Quick slicing</p> <p>Multiple extruders</p> <p>Heated bed</p> <p>Comprehensive user's guide manual</p> <p>Two-year factory warranty</p> <p>Comprehensive training for three days with practicum</p> <p>Free delivery and installation</p> <p>With laptop Computer:</p> <ul style="list-style-type: none"> · Intel Core i7 8th Gen or higher Processor at least 2.0GHz with Turbo Boost up to 4.10 GHz · At least 8GB DDR4 RAM · 1TB HDD + 256GB SSD · 4GB Graphics Card · At least 15.6" IPS Full HD 1920 x 1080 · Licensed (at least) Windows 10 Home OS 			
2	<p>Accelerometer</p> <p>Specifications/Features:</p> <p>A. Accelerometer (1 unit)</p> <ul style="list-style-type: none"> · monitors and analyzes vibration in rotating machinery · Digital, industrial, ceramic accelerometer, 0.9 to 15k Hz, top exit, integral cable terminating in USB connector · Sensitivity: 334566 counts/g (34105 counts/(m/s²)) · Frequency Range: (±3dB) 54 to 900000 cpm (0.9 to 15000 Hz) · Sensing Element: Ceramic · Measurement Range: ±20 g pk (±196 m/s² pk) · Used in conjunction with computer for analysis of results with Laboratory Laptop · analyzes and reports accelerometer test results. · Intel Core i5 Processor 2.40GHz 8M Cache, up to 4.10 GHz · At least 12 GB DDR4 RAM 	1 set	300,000.00	

	<ul style="list-style-type: none"> 1TB HDD + 256GB SSD 4GB Graphics Card At least 17.3" IPS Full HD 1920 x 1080 Licensed (at least) Windows 10 Home OS 			
3	<p>Motor-Generator Set for EE laboratory experiment</p> <p>Designed to teach operation, installation, application, and selection of AC and DC motors and generator. Electrical Test Platform to setup and for motor testing. It shall include:</p> <ul style="list-style-type: none"> - power supply minimum of: • Single phase variable AC:0-120 VAC @ 6 AMPS - Variable DC: 0-120 VDC @ 6 AMPS - 3-Phase Fixed 208 VAC <p>Safety protection: Fused with Emergency stop push button</p> <p>Tachometer: speed range 1-5000rpm</p> <p>Single Phase Motor A 1/3 HP AC, rated at 220VAC/60Hz, 1500 RPM.</p> <p>Multimeter: Clamp-on type with analog scale, voltage range of 0-500 VAC, current range of 0 - 200 AC Amps.</p> <p>Digital Multimeter: Voltage range of 0-500 VAC & VDC, current range of 0 - 10 AC & DC Amps, Ohmic Range to 20 Mega ohms, Diode Check, Battery check.</p> <p>Split Phase Motor: 1/3 HP rated at 220VAC/60Hz, 1500 RPM.</p> <p>DC Motor/generator : 1/3 HP rated at 1500 RPM, configurable to series wound, shunt wound, compound wound motor and generator</p> <p>3 Phase Induction Motor: 1/3 HP rated at 220 Volts, 3Phase.</p> <p>With Storage Cabinet and Working Table</p> <p>LAPTOP with computer table for teacher and student computer interface:</p> <ul style="list-style-type: none"> CPU: 8th Gen Intel Core i5 -or higher Video Card 2Gb or Higher RAM: 4Gb or higher Windows 10 OS Screen: 14 inch or higher 1TB Hard Drive Storage: 256Gb SSD or Higher Weight: Light Weight With one year Warranty <p>Laboratory apparatus must be supplied with training modules containing at least 10 experiments and it must be in English.</p> <p>Training of at least 3 faculty member of CEA to be conducted at the training center of the winning bidder. Equipment testing and checking will be done at this point before final delivery.</p> <p>Aftersales training at NORSU-CEA after final delivery.</p>	1 set	1,500,000.00	

	The equipment must have a 3-years warranty on parts and 5 years warranty on services.			
4	<p>Digital Hydraulic Bench</p> <ul style="list-style-type: none"> - Electronic flowmeter and digital display - Made of lightweight fibreglass - Lockable wheels for mobility with stability - Free delivery and installation <p>Mechanics range</p> <ul style="list-style-type: none"> - Must be self-contained with recirculating water circuit - Pump includes thermal overload protection - Minimum of 100 litres capacity (sump tank) - Measuring tank 40 litres - Single phase, 220 VAC, 60 Hz, 2.5 Amp <p>Supplied with:</p> <ul style="list-style-type: none"> - Comprehensive user guide manual - Five-year factory warranty - Comprehensive training for three days with practicum - Laboratory manual and labsheet <p>Available Experiment Modules</p> <p>Bench - Mounting:</p> <ul style="list-style-type: none"> - Flow Visualisation - Bernoulli's Theorem Apparatus - Flow Through an Orifice - Venturi Meter - Discharge Over a Notch - Friction Loss in a Pipe - Impact of a Jet Apparatus - Flow Measurement - Vortex Apparatus - Hydraulic Ram Pump - Jet Trajectory and Orifice Flow - Pipework Energy Losses - Flow Meter Calibration - Pressure measurement - Pitot tube <p>Free - standing</p> <ul style="list-style-type: none"> - Losses in Piping Systems - 2.5 Metre Flow Channel - Pipe Surge and Water Hammer - Fluid Friction Apparatus <p>Laptop: CPU: 8th Gen Intel Core i7 or Higher; Video Card 2Gb or Higher</p>	1 set	400,000.00	

	<p>RAM: 4Gb or higher, Windows 10 CS; Screen: at least 14in; ITB Hard Drive</p> <p>Storage: 256Gb SSD or higher; Weight: light weight, with one year warranty</p> <p>Free Delivery and Installation</p>			
5	<p>Microwave Equipment(Digital Laboratory Oven)</p> <p>Used for part drying, baking, curing, sterilizing, evaporating, heat treating, annealing and testing</p> <ul style="list-style-type: none"> - 2 year factory warranty - Comprehensive user guide manual - Comprehensive training for two days with practicum - Laboratory manual and labsheet - Free delivery and installation <p>Oven Features:</p> <ul style="list-style-type: none"> - Digital PID microprocessor - Accuracy of $\pm 0.5^{\circ}\text{C}$ - Dual over temperature safety feature - Corrosion resistant aluminized interior - 220 VAC - 1" inch of high density mineral wool insulation - Insulated Steel Doors with high impact thermoplastic handles - 2 adjustable and 1 fixed nickered plated shelves - Baked in scratch-resistant powder coated finish - Dual Over temperature safety - Capacity is 2.0-3.0 cubic feet - Ambient 0-250 deg. Celsius - 3 grid shelves - 55 – 85 litres capacity - Double wall construction 	1 pc	200,000.00	
6	<p>Energy Data Logger</p> <p>128 samples per cycle; 50/60Hz (16 samples/cycle 400Hz)</p> <p>Data Storage Rate:1 per second (200ms also available on PEL 105)</p> <p>Demand Period Storage Rate:User selectable (1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30 and 60 minutes)</p> <p>Recorded Parameters: V, I, W, VA, var, PF, Tan, Wh, VAh, varh</p> <p>Individual harmonics (from 1 through 50 per phase); Crest Factor (CF), Cos ϕ / DPF</p>	1 set	101,500.00	

	<p>Tracks and records status changes and error messages along with recorded data Front Panel Indicator LEDs: Bluetooth active, recording in progress, phase connection reversal, overload, battery charging and SD Card status</p> <p>8GB SD card included / SD cards up to 32GB formatted FAT32 are supported</p> <p>Voltage input: 4 input channels via 4mm safety banana jacks</p> <p>Current input: 4 input channels via custom 4 pin jacks that accept probes and sensors</p> <p>With 3 in 1 Continuous Printer</p> <p>Printing Method. Micro Piezo print head.</p> <p>Nozzle Configuration. 180 Nozzles Black, 59 Nozzles per Color.</p> <p>Minimum Droplet Size. 3 pl, With Variable-Sized Droplet Technology.</p> <p>Ink Technology. Dye Ink.</p> <p>Printing Resolution. 5,760 x 1,440 DPI.</p> <p>Category. Home, Office Desktop.</p> <p>All-in-One Functions. Print, Scan, Copy, Fax.</p>			
7	<p>Orsat Flue Gas Analyzer, Bomb Calorimeter with Auxiliaries</p> <p>Specifications/Features:</p> <p>A. Orsat Flue Gas Analyzer (1 unit)</p> <ul style="list-style-type: none"> · Determines the amount of CO₂, CO, and O₂ in flue gases. · Graduated Glass Gas measuring Burette which is water jacketed for temperature stability. · Three glass Absorption Pipettes containing absorbing reagents. · A liquid filled Leveling Bottle that is used to move the sample through the Burette and Pipettes. · Three absorbing reagents for CO₂, CO, and O₂. · One Flushing Manifold. <p>B. Bomb Calorimeter with Auxiliaries (1 unit)</p> <ul style="list-style-type: none"> · Measures heat of combustion of solid or liquid fuels, waste materials and other combustible samples · Includes ignition unit, molded fiberglass static jacket unit with double walls and a double cover, digital thermometer, manual oxygen fill, manual bucket fill, and manual bomb wash · Includes USB Port for balance and printer connections and SD card connections*. AND Laboratory Laptop 	1 set	400,000.00	

	<ul style="list-style-type: none"> · analyzes and reports laboratory test results. · Intel Core i5Processor 2.40GHz 8M Cache, up to 4.10 GHz · At least 12 GB DDR4 RAM · 1TB HDD + 256GB SSD · 4GB Graphics Card · At least 17.3" IPS Full HD 1920 x 1080 · Licensed (at least) Windows 10 Home OS 			
8	150 MHzDigital Oscilloscope <ul style="list-style-type: none"> - Bandwidth : 150MHz - 2 channels - 60Hz frequency - DC offset: 2mV/div to 50 mV/div - Bandwidth limit: 150Mhz - Repetitive sampling mode - Acquisition Rate: 60- 5000 waveforms per sec/ch - Real time data acquisition - Vertical sensitivity: 2mV/div - Record length: 1000 pt/sec - Display type: CRT - Display Size: 12 cm 	1 set	200,000.00	
9	Data and Optical Network Laboratory Equipment - Networking Training Networking trainer comprising of @ least: 1. Server Computer w/ License Server OS and at least the ff functions and specs: <ul style="list-style-type: none"> o CPU: Intel Xeon (4-Core, 3.4 GHz, 71W) o Memory :8 GB UDIMM DDR4 (1x 8 GB) o Network Controller :Embedded 2-Port 1GbE HPE Ethernet 332i Adapter o Storage Controller :Embedded S100i SW RAID with 4 SATA ports o Hard Drive : 1TB SATA 6G Midline 7.2K LFF (3.5in) LP o Open Source software for services and protocols: HTTP, FTP, Telnet, TFTP, DHCP o Packet Tracer o SIP / VOIP Server Software - @ least Open Source o Network Management/Monitoring Software 2. CISCO Compatible Core Switch with Singlemode or Multimode Optical Fiber link and @ least the ff specs and functions: <ul style="list-style-type: none"> o Gbps DRAM: 256 MB (512 MB) o Flash: 64 MB (128 MB) o Functions of Access, Routing, VLAN 3. Managed POE Access Switch with @ least the ff specs and functions:	1 Set	400,000.00	

- o 10BASE-T ports: RJ-45 connectors, 2-pair Category 3 (Cat-3), 4, or 5 unshielded twistedpair (UTP) cabling
- o 100BASE-TX ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o 100BASE-FX ports: MT-RJ connectors, 50/125 or 62.5/125 micron multimode fiber
- o 1000BASE-T ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o 1000BASE-T SFP-based ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o 1000BASE-SX, -LX/LH, -ZX, and CWDM SFP-based ports: LC fiber connectors (singlemode, or multimode fiber)
- o 10GBASE-ER XENPAK-based port (single-mode)
- o 10GBASE-LR XENPAK-based port (single-mode)
- o Access Ports

4. Unmanaged Access Switch with @ least the ff specs and functions:

- o 10BASE-T ports: RJ-45 connectors, 2-pair Category 3 (Cat-3), 4, or 5 unshielded twistedpair (UTP) cabling
- o 100BASE-TX ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o 1000BASE-T ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o 1000BASE-T SFP-based ports: RJ-45 connectors, 2-pair Cat-5 UTP cabling
- o Access Ports

5. WiFi Access Point w @ least the ff:

- o 10/100/1000BASE-T autosensing (RJ-45)
- o Management console port (RJ-45)

6. 2 Units of IP Phone w/ @ least the ff specs and functions:

- o Integrated 10/100/1000 Base-T AutoSensing Ethernet switch for shared PC access (one LAN port and one PC port)
- o SIP Protocols

7. Client Desktop PC w @ least the ff spec and functions:

- o 10th Gen I3 Processor
- o 8GB DDR4, 266 MHz
- o 1 TB SATA Harddrive
- o SIP Soft Phone Functions
- o FTP Client Software

- o Browsing

8. FIREWALL with @ least the ff specs:

- o Stateful inspection throughput (maximum1) : Up to 150 Mbps
- o IPS throughput2 : Up to 75 Mbps with AIP-SSC-5
- o Maximum 3DES/AES VPN Throughput3 : Up to 100 Mbps
- o Users or nodes : Unlimited

9. Fiber Optic Kit with @ least the ff:

- o Calibrated Wavelengths 850, 980, 1300, 1310, 1490,
- o 1550, 1625 nm

	<ul style="list-style-type: none"> o Measurement Range +26 to -50 dBm o Tone Detect Range +6 to -30 dBm o Wavelength ID Range +6 to -30 dBm o Accuracy ± 0.25 dB o Resolution 0.01 dB o Measurement Units dB, dBm, μW <p>10. UTP CAT 6 Patch Cords</p> <p>11. Single Mode and Multimode Optical Fiber Patch Cords with Connectors</p> <p>12. With Experiment Modules on @ least the ff exercises:</p> <ul style="list-style-type: none"> o Configuration on Firewall, Core Switch, Server PC , Client PC, IP Phone, WiFi AP, Access Switch (managed , unmanaged) o Networking o SIP Server and Devices Configuration o Server Services Configuration <p>13. Technology Transfer Training</p> <p>14. Generic Table Mount Data Rack</p> <p>Supplier must present Vendor/Distributor Certificate or as Authorized Reseller/Training Center</p>			
10	<p>Autodesk AutoCAD 2020 and Autodesk Revit 2020 Software for Windows</p> <p>Specifications:</p> <p>AutoCAD 2020 is computer-aided design and drafting software that allows the user to create 2D and 3D drawings.</p> <p>Revit 2020 is a building information modelling software that allows users to design a building and structure and its components in 3D, annotate the model with 2D drafting elements, and access building information from building model's database.</p> <p>3 Laptop Computers:</p> <ul style="list-style-type: none"> · Intel Core i7 8th Gen or higher Processor at least 2.0GHz with Turbo Boost up to 4.10 GHz · At least 8GB DDR4 RAM · 1TB HDD + 256GB SSD · 4GB Graphics Card · At least 15.6" IPS Full HD 1920 x 1080 · Licensed (at least) Windows 10 Home OS 	1 set	630,000.00	
11	<p>Smart Factory Trainer - Industry 4.0</p> <p>comprising of:</p> <p>Articulated Arm Servo Robot System</p> <p>Shall include servo robot arm, controller, teach pendant, programming cable, robot control software, student curriculum, and teacher's assessment guide. The components</p>	1 set	5,000,000.00	

	<p>shall meet the minimum specifications listed below.</p> <p>Manipulator Arm</p> <p>The robot arm shall be of industrial quality and have articulated arm -type motion with a minimum of six (6) electric drive degrees-of-freedom.</p> <p>All cables required for connection to robot computer controller shall be included. The computer controller shall be compatible with the robot arm and include at least six (6) degrees-of-freedom with closed loop speed, position and acceleration/deceleration programmable.</p> <p>Shall meet the minimum specifications listed below.</p> <ul style="list-style-type: none"> • Construction: articulated, double jointed, revolute • Degrees-of-freedom: 6 • Payload: 2.2 lb. (1 kg.) • Repeatability: +.007 in. (.18 mm) • Maximum speed: 23.6 inches/second (599.4 mm/sec) • Actuators: 6 DC servo motors with closed loop control • Feedback: optical encoders on all axes • Working envelope: <ul style="list-style-type: none"> § Waist: 345 degrees § Shoulder: 220 degrees § Elbow: 270 degrees § Pitch: 270 degrees § Roll: unlimited § Maximum reach: 24 inches • Double jointed design with a plan envelope of 360° • Gripper opening: 3 inches (76.2 mm) • Transmission: gears, chains, and leadscrew • Homing reference: infrared, high precision sensors on 2 axes, precision cam reference on 4 axes • Gripper type: servo type with encoder • Safety covers: metal covers on encoders, covers on all axes <p>With Experiment Modules for the students and instructors/professors.</p> <p>Technology Transfer Training</p>			
12	<p>SMS 5 Stations and Programmable Logic Controller Trainer (compatible with SIEMENS)</p> <p>I. SMART MODULE SYSTEM</p> <p><i>Training contents:</i></p> <ul style="list-style-type: none"> · System assembly and commissioning · PLC · Field-bus communication technology 	1 set	3,000,000.00	

- Operating and trouble-shooting
- System maintenance
- Function of pneumatic cylinder and conveyor belt
- Control various cylinder, solenoid valves, indexing table , DC motor, and Relay modules
- Sensor technology of Magnetic proximity sensor, Optical, Capacitive sensor, and Inductive sensor
- Application of solenoid actuator
- Usage of Vacuum generator
- Characteristics of Rotary cylinder and Pneumatic cylinder
- Detecting work piece and Rotary location with sensors

Main Features:

- Distribution station: Distributing work piece in stack magazine
- Testing station: Testing work piece and conveyor belt
- Stamping station: Stamping and delivery with Rotary cylinder
- Indexing station: Indexing work piece with Indexing table
- Handling station: Handling with Rodles cylinder and vacuum suction

1. Distribution station

- Stack magazine
- Distribution cylinder unit
- Feeding cylinder unit
- One way flow control valves
- Magnetic proximity sensor-4ea
- Optical fiber sensor 1ea
- 5/2-way solenoid valve 2ea
- START, STOP, RESET, EMG Switches
- START, STOP, RESET Lamps
- Aluminum profiles panel : 300*300*15mm
- Power distribution terminal block
- Smart INPU/OUTPUT terminal block
- Wiring cable and duct
- Pneumatic connector and tube
- Aluminum case

2. Testing station

- Conveyor belt unit
- DC motor drive
- Solenoid ejecting unit
- Capacitive sensor
- Inductive sensor
- Relay unit 2 ea
- Case for ejected work piece
- Sensor bracket
- Aluminum profile panel: 300*300*15 mm

<ul style="list-style-type: none"> · Power distribution terminal block · Smart INPUT/OUTPUT terminal block · Wiring cable and duct · Pneumatic connectors and tube 				
Aluminium Case				
3. Stamping station				
<ul style="list-style-type: none"> · Slider and stamping zig · Stamping rotary cylinder unit · Pneumatic rotary cylinder unit · Vacuum generator and suction unit · One-way flow control valves · Magnetic proximity sensor 4ea · Optical sensor and fiber 1ea · 5/2-Way Solenoid valve 2ea · 5/2-Way single solenoid valve 1ea · Aluminium profile panel : 300*300*15 mm · Power distribution terminal block · Smart INPUT/OUTPUT terminal block · Wiring cable and duct · Pneumatic connectors and tube · Aluminium Case 				
4. Indexing station				
<ul style="list-style-type: none"> · 6-split indexing table · Indexing motor · Relay (able manual type) · Position detecting sensor · Inductive sensor 1ea · Optical sensor · Indexing table bracket · Sensor bracket 2ea · Aluminium profile panel : 300*300*15 mm · Power distribution terminal block · Smart INPUT/OUTPUT terminal block · Wiring cable and duct · Pneumatic connectors and tube 				
Aluminium Case				
5. Handling station				
<ul style="list-style-type: none"> · Pneumatic double-acting cylinder unit · Vacuum generator and suction unit · One way flow control valves · Magnetic proximity sensor 4ea · 5/2-Way solenoid valve 1ea · 5/2-Way single solenoid valve 1ea · 5/3-Way solenoid valve 1ea 				

· Pneumatic service unit

Controller:

1. PLC Trainer

CPU with power

QTY: 5 [sets](#)

2. PLC Program Loading Cable or Adapter

QTY: 5 [pieces](#)

3. Software for PLC

TIA PORTAL V12 Basic

I. Programmable Logic Controller [Trainer \(compatible with SIEMENS\)](#)

Features:

- Input-simulation switches function as level and pulse Input for different input signal
- Installation of output relay helps to increase load current
- Easy-to-use, windows-based development software
- With various peripheral devices and other devices that support external extensions, particularly suiting laboratory experiment and project implementation
- Equipped with various simulations I/O devices for studying and observing the results
- Use 4mm safety sockets Input/Output terminals to ensure users physical safety
- Easy to carry, move and store with a suitcase design

Specifications

1. AC power supply : 100V - 240V AC, 50/60 Hz
2. PLC main unit : [SIEMENS Compatible](#)
3. Digital input : 14
4. Digital output : 10
5. Support high-speed counters : 6 (total)
6. Support timers : 256 total timers; 4 timers(1ms); 16 timers(10ms); 236 timers(100ms)
7. Communication ports : RS-485
8. One 4-digit 7-segment display
9. One 4-digit thumbwheel switch
10. One step motor
11. One encoder
12. One 24V DC motor
13. One proximity sensor
14. One micro switch
15. One buzzer
16. One 4x4 keypad
17. One 24V DC expansion power
18. Provide module expansion port and DIO extension port
19. Provide traffic light control module
20. Provide tank-filling device module
21. Windows-based programming software allows the user to modify the program while running

. STEP 7- operations

- Editing ladder program
- Testing ladder program
- Monitoring status

2. Basic control circuits

- Self-holding circuit
- Flashing control
- Inching control
- Single button Control

3. Light control

- Simple light control
- Complex light control

4. Traffic light control

- Traffic light controller (step)
- Traffic light controller (conventional)

5. Digital clock control

- 7-segment display control
- Time clock

6. Step motor control

- Speed and direction control
- Encoder operation
- Step motor and encoder
- Step display of step motor

7. Tank filling device control

- Tank filling control
- Tank filling control with thumbwheel

8. Keypad control

- Keypad operation
- Digital lock control

9. DC motor control

- PWM speed controller
- Proximity and micro switches
- Automatic speed control

Laptop 2 units

- Intel Core i5-Processor 2.40GHz 8M Cache, up to 4.10 GHz

<ul style="list-style-type: none"> · <i>At least 8 GB DDR4 RAM</i> · <i>1TB HDD + 256GB SSD</i> · <i>4GB Graphics Card</i> · <i>At least 15.6" IPS Full HD 1920 x 1080</i> · <i>Licensed (at least) Windows 10 Home OS</i> <p>Desktop 2 units</p> <ul style="list-style-type: none"> · Intel 6 Core i5 2.9-4.1Ghz CPU · 8GB DDR4 2666Mhz Memory · 6GB Graphics Card · 256G SSD · Integrated Network Card (NIC) · 3x USB 3.0 Ports (1 front, 2 back) · 3x USB 2.0 Ports (1 front, 2 back) · 1x VGA Video Output 1x HDMI Video Output <p>Accessories</p> <ol style="list-style-type: none"> 1. Power cord 2. Experiment manual 3. Connecting leads set 			
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Very truly yours,

Signature Over Printed Name

Position

Company

Telephone Number/s

Date

Section VIII. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

The prescribed documents in the checklist are mandatory to be submitted in the Bid, but shall be subject to the following:

- a. GPPB Resolution No. 09-2020 on the efficient procurement measures during a State of Calamity or other similar issuances that shall allow the use of alternate documents in lieu of the mandated requirements; or
- b. Any subsequent GPPB issuances adjusting the documentary requirements after the effectivity of the adoption of the PBDs.

The BAC shall be checking the submitted documents of each Bidder against this checklist to ascertain if they are all present, using a non-discretionary “pass/fail” criterion pursuant to Section 30 of the 2016 revised IRR of RA No. 9184.

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,
and
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Technical Documents

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

Financial Documents

- ☐ (k) The Supplier’s audited financial statements, showing, among others, the Supplier’s total and current assets and liabilities, stamped “received” by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (l) The prospective bidder’s computation of Net Financial Contracting Capacity (NFCC);

or

A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

Class “B” Documents

- ☐ (m) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence;

or

duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

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

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

25 FINANCIAL COMPONENT ENVELOPE

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

NEGROS ORIENTAL STATE UNIVERSITY BID FORM: FINANCIAL PROPOSAL

BID FORM

Date : _____
Project Identification No : _____

JOEL P. LIMSON, Ph.D.
University President
Negros Oriental State University
Kagawasan Avenue, Dumaguete City

Attention: MERIVIC G. CATADA, Ph.D.
The Chairman
Bids and Awards Committee

Dear Dr. Limson:

Having examined the Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers[*insert numbers*], the receipt of which is hereby duly acknowledged, we, the undersigned, offer to [*supply/deliver/perform*] [*description of the Goods*] in conformity with the said Bidding Documents for the sum of [*total Bid amount in words and figures*] or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: [*specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties*], which are itemized herein and in the Price Schedules,

Item	Qty	Unit	Item Description	Unit Price	Total Price (Should be 12%VAT inclusive)

If our Bid is accepted, we undertake:

- to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- to provide a performance security in the form, amounts, and within the times specified in the Bidding Documents.;
- to abide by the Bid Validity Period specified in the BDS and it shall remain binding upon us 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 pursuant to the PBDs.

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

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

Name : _____

Legal capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

Date: _____

For Goods Offered From Abroad

Name of Bidder _____. Invitation to Bid Number _____. Page ____ of _____.

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

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

For Goods Offered From Within the Philippines

Name of Bidder _____. Invitation to Bid² Number _____. Page ____.

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

Name: _____

Legal Capacity: _____

Signature: _____

Duly authorized to sign the Bid for and behalf of: _____

² If ADB, JICA and WB funded projects, use IFB.

