

# **PHILIPPINE BIDDING DOCUMENTS**

(As Harmonized with Development Partners)

## **Procurement of Technical and Scientific Equipment (Supply, Delivery, Installation, and Training) REBID**

Government of the Republic of the Philippines

**Philippine Science High School-  
Zamboanga Peninsula Region Campus**

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

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

**BAC** – Bids and Awards Committee.

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

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

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

**BIR** – Bureau of Internal Revenue.

**BSP** – Bangko Sentral ng Pilipinas.

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

**CDA** - Cooperative Development Authority.

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

**CIF** – Cost Insurance and Freight.

**CIP** – Carriage and Insurance Paid.

**CPI** – Consumer Price Index.

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

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

**EXW** – Ex works.

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

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

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

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

**GFI** – Government Financial Institution.

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

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

**GOP** – Government of the Philippines.

**GPPB** – Government Procurement Policy Board.

**INCOTERMS** – International Commercial Terms.

**Infrastructure Projects** – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national

buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

**LGUs** – Local Government Units.

**NFCC** – Net Financial Contracting Capacity.

**NGA** – National Government Agency.

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

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

**PSA** – Philippine Statistics Authority.

**SEC** – Securities and Exchange Commission.

**SLCC** – Single Largest Completed Contract.

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

**UN** – United Nations.

## ***Section I. Invitation to Bid***



Republic of the Philippines  
Department of Science and Technology  
**PHILIPPINE SCIENCE HIGH SCHOOL**  
**ZAMBOANGA PENINSULA REGION CAMPUS**  
Cogon, Dipolog City



## **Invitation to Bid for the Procurement of Technical and Scientific Equipment (Supply, Delivery, Installation, and Training) REBID**

1. The **Philippine Science High School-Zamboanga Peninsula Region Campus** through the intends to apply the sum of **Six Million Pesos (P 6,000,000.00) for Lot 1, Three Million Pesos (P 3,000,000.00) for Lot 2, and Two Million One Hundred Thousand Pesos (P 2,100,000.00) for Lot 3** being the ABC to payments under the contract for each lot. Bids received in excess of the ABC for each lot shall be automatically rejected at bid opening.
2. The **Philippine Science High School-Zamboanga Peninsula Region Campus (PSHS-ZRC)** now invites bids for the above Procurement Project. Delivery of the Goods is required within **One Hundred Twenty (120) Calendar Days**. Bidders should have completed, within *five (5) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from **Philippine Science High School-Zamboanga Peninsula Region Campus** and inspect the Bidding Documents at the address given below during weekdays from 8:00 o'clock in the morning until 5:00 o'clock in the afternoon
5. A complete set of Bidding Documents may be acquired by interested Bidders on *October 12, 2020* from the given address and website below *and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Eight Thousand Pesos (P 8,000.00) for Lot 1, Three Thousand Pesos (P 3,000.00) for Lot 2, and Three Thousand Pesos (P 3,000.00) for*

**Lot 3.** The Procuring Entity shall allow the bidder to present its proof of payment for the fees *to the BAC Secretary at the address given below.*

6. PSHS-ZRC will hold a Pre-Bid Conference<sup>1</sup> on *October 22, 2020, 1:00 in the afternoon* at the Ground Floor of the Dormitory II Building, PSHS-ZRC, Cogon, Dipolog City, and/or through video conferencing or webcasting *via Google Meet*, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before *1:00 p.m. of November 3, 2020*. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.
9. Bid opening shall be on *November 3, 2020 @ 1:01 in the afternoon* at the given address below. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.
10. PSHS-ZRC reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. For further information, please refer to:  
  
*Sherl Dianne S. Estoque*  
*BAC Secretariat Office*  
*PSHS-ZRC, Cogon, Dipolog City*  
*ssestoque@zrc.pshs.edu.ph*  
*09500979799*  
*<http://zrc.pshs.edu.ph/>*
12. You may visit the following websites:

For downloading of Bidding Documents: *<http://zrc.pshs.edu.ph/category/bid/>*

*October 12, 2020*

**(SGD.) RRYAM A. JARALVE**  
Chairperson, Bids and Awards Committee



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

## 1. Scope of Bid

The Procuring Entity, wishes to receive Bids for the ***Procurement of Technical and Scientific Equipment (Supply, Delivery, Installation, and Training) REBID***, with identification number ***2020-10-0289***.

The Procurement Project (referred to herein as “Project”) is composed of **three (3) lots**, the details of which are described in Section VII (Technical Specifications).

## 2. Funding Information

2.1. The GOP through the source of funding as indicated below for *FY 2020* in the amount of ***Eleven Million One Hundred Thousand Pesos (P 11,100,000.00)***.

2.2. The source of funding is:

a. NGA, the General Appropriations Act or Special Appropriations.

## 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.

- 5.3. 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 procurement where the Procuring Entity has determined, after the conduct of market research, that imposition of either (a) or (b) will likely result to failure of bidding or monopoly that will defeat the purpose of public bidding: the Bidder should comply with the below requirement:
    - i. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

## **6. Origin of Goods**

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

## **7. Subcontracts**

- 7.1. The Procuring Entity has prescribed that:
- a. Subcontracting is not allowed.

## **8. Pre-Bid Conference**

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address 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* 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.

## **12. Bid Prices**

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

- ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

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

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

### **14. Bid Security**

- 14.1. The Bidder shall submit a Bid Securing Declaration<sup>2</sup> or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.
- 14.2. The Bid and bid security shall be valid until *120 days from the date of Opening of Bids*. 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 original copy of the first and second components of its Bid and another *two (2)* copies of the said bids.

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

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address 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.

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<sup>2</sup> In the case of Framework Agreement, the undertaking shall refer to entering into contract with the Procuring Entity and furnishing of the performance security or the performance securing declaration within ten (10) calendar days from receipt of Notice to Execute Framework Agreement.

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

## **18. Domestic Preference**

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

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

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated “*passed*,” using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as one Project having several items grouped into several lots, which shall be awarded as separate contracts per lot.
- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

## **20. Post-Qualification**

- 20.2. 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, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

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

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

### ***Section III. Bid Data Sheet***



# Bid Data Sheet

ITB Clause	
5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <ul style="list-style-type: none"> <li>a. <i>Procurement of Technical and Scientific Equipment (Supply, Delivery, Installation, and Training) REBIDD</i></li> <li>b. completed within <i>five (5) years</i> prior to the deadline for the submission and receipt of bids.</li> </ul>
7.1	<i>Not applicable</i>
12	The price of the Goods shall be quoted DDP <i>with the place of destination in the Philippines.</i>
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><b>LOT 1: Approved Budget of the Contract is Six Million Pesos (P 6,000,000.00)</b></p> <ul style="list-style-type: none"> <li>a. The amount of not less than <b>One Hundred Twenty Thousand Pesos (P 120,000.00)</b>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than <b>Three Hundred Thousand (P 300,000.00)</b>, if bid security is in Surety Bond.</li> </ul> <p><b>LOT 2: Approved Budget of the Contract is Three Million Pesos (P 3,000,000.00)</b></p> <ul style="list-style-type: none"> <li>a. The amount of not less than <b>Sixty Thousand Pesos (P 60,000.00)</b>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than <b>One Hundred Fifty Thousand Pesos (P 150,000)</b>, if bid security is in Surety Bond.</li> </ul> <p><b>LOT 3: Approved Budget of the Contract is Two Million One Hundred Thousand Pesos (P 2,100,000.00)</b></p> <ul style="list-style-type: none"> <li>a. The amount of not less than <b>Forty-Two Thousand Pesos (P 42,000.00)</b>, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or</li> <li>b. The amount of not less than <b>One Hundred Five Thousand Pesos (P 105,000.00)</b>, if bid security is in Surety Bond.</li> </ul>

19.3	<p><b>LOT 1:</b></p> <p><i>1 SET Laboratory Furniture</i></p> <p><b>LOT 2:</b></p> <p><i>1 SET CNC Router (Full-size Gantry)</i></p> <p><b>LOT 3:</b></p> <p><i>1 UNIT Drying Oven, 220 V</i></p> <p><i>1 SET UV-VIS Spectrophotometer-Double beam, 220V</i></p> <p><i>1 SET Digital Rotary Evaporator, 220V</i></p> <p><i>25 units Binocular Microscope</i></p> <p><i>1 unit Human Skeleton Model</i></p> <p><i>5 SET Laboratory Micropipette Kit</i></p>
20.2	<i>Not applicable.</i>

## ***Section IV. General Conditions of Contract***

## **1. Scope of Contract**

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

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

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

## **2. Advance Payment and Terms of Payment**

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

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

## **3. Performance Security**

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

## **4. Inspection and Tests**

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

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

## **5. Warranty**

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

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

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

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

## ***Section V. Special Conditions of Contract***

## Special Conditions of Contract

GCC Clause	
1	<p><b>Delivery and Documents –</b></p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery terms applicable to the Contract are DDP delivered within the Philippines. In accordance with INCOTERMS.”</p> <p>The delivery terms applicable to this Contract are delivered <i>within the Philippines</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</p> <p><b><i>Robinson S. Luzon</i></b> <b><i>SST-III</i></b></p> <p><b>Incidental Services –</b></p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> <li>a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;</li> <li>b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;</li> <li>c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;</li> <li>d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and</li> </ol>

	<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>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p> <p><b>Spare Parts –</b> The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> <li>a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and</li> <li>b. in the event of termination of production of the spare parts: <ul style="list-style-type: none"> <li>i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and</li> <li>ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.</li> </ul> </li> </ul> <p>The spare parts and other components required are listed in <b>Section VI (Schedule of Requirements)</b> and the cost thereof are included in the contract price.</p> <p>The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of one (1) year.</p> <p>Spare parts or components shall be supplied as promptly as possible of placing the order.</p>
	<p><b>Packaging –</b> The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p>



	<p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity  Name of the Supplier  Contract Description  Final Destination  Gross weight  Any special lifting instructions  Any special handling instructions  Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p><b>Transportation –</b>  Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p><b>Intellectual Property Rights –</b>  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	<i>Not applicable.</i>
4	The inspections and tests that will be conducted are: Refer to the Terms of Reference for the detailed requirements.

## ***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.

### **LOT 1:**

<b>Item Number</b>	<b>Description</b>	<b>Quantity</b>	<b>Total</b>	<b>Delivered, Weeks/ Months</b>
<b>LOT 1</b>				
1	<p><b>Laboratory Furniture</b></p> <p>Two (2) Laboratory Rooms</p> <p>Specifications per Laboratory Room</p> <ul style="list-style-type: none"> <li>• Six (6) Rectangular working tables with four (4) electrical outlets, water, and gas outlets, end-sink with faucet and rack dryer. <ul style="list-style-type: none"> <li>○ 2m x 1.2m x 0.90m</li> <li>○ Phenolic Resin Top Typical Section</li> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</li> <li>○ Counter top test on material properties with corresponding test method on test result under En, STM and ISO</li> <li>○ With laminated finished based cabinet with breakdown as:</li> </ul> </li> </ul>	1 set	1 set	120 days

	<ul style="list-style-type: none"> <li>▪ Dimension: 4800mm-length</li> <li>▪ With powder coated finish metal base frame and legs with adjustable leveler.</li> <li>▪ Three (3) units hanging type one swing outdoor cabinet in hand grab type handle and adjustable shelf.</li> <li>▪ Two (2) units open type leg rooms</li> <li>▪ Two (2) units swing outdoors and fixed panel</li> <li>▪ Four (4) units two gang electrical outlets</li> </ul> <ul style="list-style-type: none"> <li>• One (1) Ducted Fume Hood with Vertical Sash <ul style="list-style-type: none"> <li>○ 2m x 0.8m x 2m (WxDxH) or better</li> <li>○ With by-pass grill</li> <li>○ Sash work height 500mm</li> <li>○ With airfoil</li> <li>○ With storage cabinet</li> <li>○ With controller for airflow and sash alarm</li> <li>○ With baffles</li> <li>○ With electrical receptacles</li> <li>○ With the safety valve for water and gas</li> <li>○ Chamber type duct</li> <li>○ With power supply, socket, fan switch, light switch</li> </ul> </li> <li>• 1 unit Eye washer</li> <li>• 1 unit Laboratory Shower</li> <li>• 1 unit Demonstration Table with, electrical outlet, water, and gas outlets, end-sink with faucet and rack dryer. <ul style="list-style-type: none"> <li>○ 2m x 1.2m x 0.90m</li> </ul> </li> <li>• Side-tables with cabinets and lavatory</li> <li>• 4 Display Cabinets (2m x 1m x 0.5m)</li> <li>• 30 pcs Laboratory Stool</li> <li>• 1 unit tool case cabinet</li> <li>• 1 unit First-aid Cabinet</li> <li>• 1 unit Fire Blanket</li> <li>• 1 unit Chemical Spill Kit</li> <li>• 1 unit compressed gas holder</li> </ul> <p>One (1) <b>Chemical preparation room</b></p> <ul style="list-style-type: none"> <li>• Side table with lavatory <ul style="list-style-type: none"> <li>○ Phenolic Resin Top Typical Section</li> </ul> </li> </ul>			
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	<ul style="list-style-type: none"> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</li> <li>○ Countertop test on material properties with corresponding test method on test result under En, STM and ISO</li> </ul> <ul style="list-style-type: none"> <li>• Chemical Reagent Cabinet (2m x 1m x 0.5m) with exhaust piping</li> <li>• Ducted Chemical Fume Hood with vertical sash <ul style="list-style-type: none"> <li>○ 1m x 0.8m x 2m (WxDxH) or better</li> <li>○ With by-pass grill</li> <li>○ Sash work height 500mm</li> <li>○ With airfoil</li> <li>○ With storage cabinet</li> <li>○ With controller for airflow and sash alarm</li> <li>○ With baffles</li> <li>○ With electrical receptacles</li> <li>○ With the safety valve for water and gas</li> <li>○ Chamber type duct</li> <li>○ With power supply, socket, fan switch, light switch</li> </ul> </li> <li>• Center Table with Reagent Rack</li> </ul> <p><b>One (1) Instrumentation Room</b></p> <ul style="list-style-type: none"> <li>• Solid Phenolic Resin Top table with electrical outlet, with drawers and hanging cabinets. <ul style="list-style-type: none"> <li>○ Phenolic Resin Top Typical Section</li> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> </ul> </li> </ul>			
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	<ul style="list-style-type: none"> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</li> <li>○ Countertop test on material properties with corresponding test method on test result under En, STM and ISO</li> <li>○</li> </ul> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance.</li> <li>- Provide detailed design layout and drawing based on the above specifications and floor plan.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the laboratory furniture.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures and intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of lab furniture's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation,</li> </ul>			
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	<p>lab furniture maintenance, and troubleshooting.</p> <ul style="list-style-type: none"> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the lab furniture meets the specified requirements.</li> <li>- A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>			
Item Number	Description	Quantity	Total	Delivered, Weeks/ Months
<b>LOT 2</b>				

<p><b>CNC Router (Full-size Gantry)</b></p> <p>Accessories include: Spindles &amp; Routers Bits and Collets Automatic Tool Changer Vacuum Systems Dust Collectors Rotary Indexers Enclosures Production Aids</p> <p>Machine Specifications:</p> <table><tr><td>Cutting speed</td><td>10 in/s</td><td>(250 mm/s)</td></tr><tr><td>Jogging speed</td><td>30 in/s</td><td>(760 mm/s)</td></tr><tr><td>Move speed (X, Y)</td><td>12 in/s</td><td>(305 mm/s)</td></tr><tr><td>Move speed (Z)</td><td>6 in/s</td><td>(153 mm/s)</td></tr><tr><td>Positioning speed (X, Y)</td><td>30 in/s</td><td>(760 mm/s)</td></tr><tr><td>Positioning speed (Z)</td><td>15 in/s</td><td>(380 mm/s)</td></tr><tr><td>Step resolution</td><td>0.0004"</td><td>(0.010 mm)</td></tr><tr><td>Positional repeatability</td><td>0.002"</td><td>(0,051 mm)</td></tr><tr><td>Linear cutting power</td><td>150 lbs</td><td>(68kg)</td></tr><tr><td>X- and Y-axis drive system</td><td colspan="2">Rack and pinion</td></tr><tr><td>Z-axis drive system</td><td colspan="2">Rack and pinion</td></tr><tr><td>Input voltage</td><td colspan="2">220V, 60Hz, 3-phase</td></tr></table> <p>Features:</p> <p>Fast, closed-loop motors fitted with low-backlash, tapered-hob gear heads on all three axes (two on the X-axis)</p> <p>Tough precision linear bearings on the moving gantry and hardened steel rails for the x-axis.</p> <p>Reliable rack-and-pinion power transmission on each axis.</p> <p>Impressive cutting speeds of up to 600 inches per minute (depending on cutting bit and material) and rapid transit speeds of 1,800 inches per minute.</p> <p>Step resolution of .0004".</p> <p>The positional accuracy of +/- .002".</p> <p>Sealed Industrial UL Certified Control Box.</p> <p>Emergency Stop disconnect switch in the Control Box with integrated and cabled remote Emergency Stop Buttons.</p> <p>Z-zero Touch-Off Plate and XY Proximity Switches.</p> <p>software to run your CNC.</p> <p>Dust Skirt ready to connect to your dust collector.</p> <p>Each new tool comes bundled with two powerful software programs to create CNC projects.</p> <p>Shipped as four ready-to-assemble modules.</p> <p>On-site assembly and training are available.</p> <p>Free Tech Support and User Forum.</p> <p><b>Service and Warranty</b></p>	Cutting speed	10 in/s	(250 mm/s)	Jogging speed	30 in/s	(760 mm/s)	Move speed (X, Y)	12 in/s	(305 mm/s)	Move speed (Z)	6 in/s	(153 mm/s)	Positioning speed (X, Y)	30 in/s	(760 mm/s)	Positioning speed (Z)	15 in/s	(380 mm/s)	Step resolution	0.0004"	(0.010 mm)	Positional repeatability	0.002"	(0,051 mm)	Linear cutting power	150 lbs	(68kg)	X- and Y-axis drive system	Rack and pinion		Z-axis drive system	Rack and pinion		Input voltage	220V, 60Hz, 3-phase		1 set	1 set	120 days
Cutting speed	10 in/s	(250 mm/s)																																					
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	<ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data process, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> <li>- Brochure with pictures must be provided during bid opening.</li> </ul> <p><b>Testing and Acceptance</b></p>			
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	<ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul>			
Item Number	Description	Quantity	Total	Delivered, Weeks/ Months
<b>LOT 3</b>				
1	<p><b>DRYING OVEN, 220 V</b></p> <p>Specifications: Volume capacity is at least 50 liters; the Number of shelves is 3 or more and should be adjustable, Setting temperature 15 to 300°C or better, Stainless steel interior and housing, with natural convection, stainless steel door and insulated with tempered glass observation window, LED display.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the</li> </ul>	1 unit	1 unit	120 days

	<p>instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</p> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to</li> </ul>			
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	make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.			
2	<p><b>UV-VIS Spectrophotometer-Double beam, 220V</b></p> <p>Wavelength range: 190 - 1100nm  Spectral bandwidth: 0.5nm – 5nm  Photometric mode: Transmittance, Absorbance  Photometric range: -0.3-3.0 Abs  Photometric Accuracy: <math>\pm 0.002</math> Abs at 0.5 Abs, <math>\pm 0.004</math> Abs at 1.0 Abs, <math>\pm 0.006</math> Abs at 2.0 Abs  Photometric Repeatability: <math>&lt; \pm 0.001</math> Abs at 0.5 Abs, <math>&lt; \pm 0.001</math> Abs at 1 Abs, <math>&lt; \pm 0.003</math> Abs at 2 Abs  Baseline flatness: <math>&lt; \pm 0.0006</math> Abs (1000 to 190 nm one hour after light source turned on)  Noise level: <math>&lt; 0.00005</math> Abs (700 nm)  Detector: Silicon Photo diode  Compartment: reference and sample compartment analyze simultaneously for 6 samples or more.  Stray light: <math>&lt; 0.02\%</math> at 220nm (NaI), <math>&lt; 1.0\%</math> nm (KCl)</p> <p>Inclusions  UV-Vis Spectrophotometer workstation: UV Probe Software Complete  UV-Vis Spectrophotometer Accessories: Quartz cuvette, 10mm path length – (2pcs), complete PC system and printer with continuous ink, O/S: Microsoft Windows 10, Hard Disk Drive: 1TB, Monitor: 21.5" LED Color monitor or better, Processor: i7, 32G RAM  PC controlled or stand-alone placement of memory possible in PC, built-in and USB 1nm bandwidth.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> </ul>	1 set	1 set	120 days

	<ul style="list-style-type: none"> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the</li> </ul>			
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	<p>responsibility and at the cost of the Supplier.</p> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>			
3	<p><b>Digital Rotary Evaporator, 220V</b></p> <p>Specifications:</p> <p><b>Bath:</b>  Heating Capacity – 1300W or better  Temp. range heating bath – 20-210°C  Temp. accuracy bath - <math>\pm 1^{\circ}\text{C}</math>, or better  Material Heating Bath – Stainless Steel  Volume Heating Bath – 4.5 liters, maximum  Display- Digital LCD</p> <p><b>Rotary Evaporator</b>  Display rotation speed range – 10-280 rpm or better  Display – Digital LCD that indicates rotation speed, heating bath, and vapor temperature  Height adjustment – 155mm, or better  Condensing surface – 2,200 cm<sup>2</sup>  Inclusions: Diagonal coil condenser, vapor tube for the diagonal condenser, 1L receiving flask, 1L evaporator flask, feed tube with stopcock, vacuum seal, conical clip, spherical joint clip</p> <p><b>Vacuum Pump</b> – Variable vacuum, flowrate 19L/min</p> <p><b>Cooler System</b>  Cooling Capacity – 400W or better  Temp. range - -20 to 30°C  Capacity – 2 liters or better  Pump rate – 8 L/min or better</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance</li> </ul>	1 set	1 set	120 days

	<p>and 1-year free calibration and preventive maintenance on site</p> <ul style="list-style-type: none"> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and</li> </ul>			
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	<p>after the supplier states the system is installed and ready to perform in compliance with specifications.</p> <ul style="list-style-type: none"> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>			
4	<p><b>Binocular Microscope</b></p> <p>Body-interchangeable, inclined binocular body, 360° rotatable head, Eyepieces-highest quality 10X wide-angle anti-fungus field eyepiece. Objective-parfocal, antifungals coated 4x, 10x, 40x and 100x (oil immersion) with plan achromatic correction. Stage horizontal mechanical stage preferably 100 x 140 mm with fine graduations designed with convenient coaxial adjustment for slide manipulation preferable through 30x70 mm. Substage-abbe condenser focusable, continuously variable iris diaphragm. Illuminator-built-in LED light source with adjustable white light. Should provide dust cover and immersion oil. Electrical safety certification. Should work with input 220Vac supply.</p>	25 units	25 units	120 days



	<p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p>			
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	<ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>			
5	<p><b>Human Skeleton Model</b></p> <ul style="list-style-type: none"> <li>• Height: 168cm or more</li> <li>• Hanged or platformed base with wheels.</li> </ul> <p>Complete human adult bones.</p>	1 unit	1 unit	120 days
6	<p><b>Laboratory Micropipette Kit</b> <b>Per set must have the following:</b></p> <ul style="list-style-type: none"> <li>• 4 units of adjustable single channel micropipette (0.5-10<math>\mu</math>L, 10-100<math>\mu</math>L, 100-1000 <math>\mu</math>L, 1000-5000 <math>\mu</math>L)</li> <li>• With digital display and tip ejector</li> <li>• Rotatable piston for volume adjustment</li> <li>• With pipette stand for 4 or more pipettes</li> <li>• 8 racks of sterile tips ( 2 racks for 10<math>\mu</math>L, 2 racks for 100<math>\mu</math>L, 2 racks for 200<math>\mu</math>L, 2 racks for 1000<math>\mu</math>L )</li> <li>• Tip Ejector collar and Tip cone must be made of chemical-resistant material.</li> </ul> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance.</li> </ul>	5 set	5 set	120 days

	<ul style="list-style-type: none"> <li>- Provide detailed design layout and drawing based on the above specifications and floor plan.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures and intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of lab furniture's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, lab furniture maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the lab furniture meets the specified requirements.</li> <li>- A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by</li> </ul>			
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	<p>the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</p>			
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## ***Section VII. Technical Specifications***

# Technical Specifications

Item	Specification	Statement of Compliance
		<i>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.</i>
<b>LOT 1</b>		
	<p><b>Laboratory Furniture</b></p> <p>Two (2) Laboratory Rooms</p> <p>Specifications per Laboratory Room</p> <ul style="list-style-type: none"> <li>• Six (6) Rectangular working tables with four (4) electrical outlets, water, and gas outlets, end-sink with faucet and rack dryer. <ul style="list-style-type: none"> <li>○ 2m x 1.2m x 0.90m</li> <li>○ Phenolic Resin Top Typical Section</li> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</li> <li>○ Counter top test on material properties with corresponding test method on test result under En, STM and ISO</li> <li>○ With laminated finished based cabinet with breakdown as: <ul style="list-style-type: none"> <li>▪ Dimension: 4800mm-length</li> <li>▪ With powder coated finish metal base frame and legs with adjustable leveler.</li> </ul> </li> </ul> </li> </ul>	

	<ul style="list-style-type: none"> <li>▪ Three (3) units hanging type one swing outdoor cabinet in hand grab type handle and adjustable shelf.</li> <li>▪ Two (2) units open type leg rooms</li> <li>▪ Two (2) units swing outdoors and fixed panel</li> <li>▪ Four (4) units two gang electrical outlets</li> </ul> <ul style="list-style-type: none"> <li>• One (1) Ducted Fume Hood with Vertical Sash <ul style="list-style-type: none"> <li>○ 2m x 0.8m x 2m (WxDxH) or better</li> <li>○ With by-pass grill</li> <li>○ Sash work height 500mm</li> <li>○ With airfoil</li> <li>○ With storage cabinet</li> <li>○ With controller for airflow and sash alarm</li> <li>○ With baffles</li> <li>○ With electrical receptacles</li> <li>○ With the safety valve for water and gas</li> <li>○ Chamber type duct</li> <li>○ With power supply, socket, fan switch, light switch</li> </ul> </li> <li>• 1 unit Eye washer</li> <li>• 1 unit Laboratory Shower</li> <li>• 1 unit Demonstration Table with, electrical outlet, water, and gas outlets, end-sink with faucet and rack dryer. <ul style="list-style-type: none"> <li>○ 2m x 1.2m x 0.90m</li> </ul> </li> <li>• Side-tables with cabinets and lavatory</li> <li>• 4 Display Cabinets (2m x 1m x 0.5m)</li> <li>• 30 pcs Laboratory Stool</li> <li>• 1 unit tool case cabinet</li> <li>• 1 unit First-aid Cabinet</li> <li>• 1 unit Fire Blanket</li> <li>• 1 unit Chemical Spill Kit</li> <li>• 1 unit compressed gas holder</li> </ul> <p>One (1) <b>Chemical preparation room</b></p> <ul style="list-style-type: none"> <li>• Side table with lavatory <ul style="list-style-type: none"> <li>○ Phenolic Resin Top Typical Section</li> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test</li> </ul> </li> </ul>	
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	<p>with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</p> <ul style="list-style-type: none"> <li>○ Countertop test on material properties with corresponding test method on test result under En, STM and ISO</li> </ul> <ul style="list-style-type: none"> <li>• Chemical Reagent Cabinet (2m x 1m x 0.5m) with exhaust piping</li> <li>• Ducted Chemical Fume Hood with vertical sash <ul style="list-style-type: none"> <li>○ 1m x 0.8m x 2m (WxDxH) or better</li> <li>○ With by-pass grill</li> <li>○ Sash work height 500mm</li> <li>○ With airfoil</li> <li>○ With storage cabinet</li> <li>○ With controller for airflow and sash alarm</li> <li>○ With baffles</li> <li>○ With electrical receptacles</li> <li>○ With the safety valve for water and gas</li> <li>○ Chamber type duct</li> <li>○ With power supply, socket, fan switch, light switch</li> </ul> </li> <li>• Center Table with Reagent Rack</li> </ul> <p><b>One (1) Instrumentation Room</b></p> <ul style="list-style-type: none"> <li>• Solid Phenolic Resin Top table with electrical outlet, with drawers and hanging cabinets. <ul style="list-style-type: none"> <li>○ Phenolic Resin Top Typical Section</li> <li>○ Table Thickness: 20mm or better</li> <li>○ Chemical Resistant</li> <li>○ Scratch-resistant</li> <li>○ Safe to moisture</li> <li>○ UL Classified</li> <li>○ Fire-rated</li> <li>○ Anti-static material</li> <li>○ SEFA 8-1998 Chemical Resistant Testing Greengard Certified</li> <li>○ Phenolic Resin Technical Data on chemical resistance to acids, bases, salts halogens, organic chemicals, solvents and biological stains under 24 hours test with corresponding test result based on SEFA as well as the main reagents from the PSI or any American and European Testing Laboratory.</li> <li>○ Countertop test on material properties with corresponding test method on test result under En, STM and ISO</li> <li>○</li> </ul> </li> </ul> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance.</li> </ul>	
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	<ul style="list-style-type: none"> <li>- Provide detailed design layout and drawing based on the above specifications and floor plan.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the laboratory furniture.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures and intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of lab furniture's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, lab furniture maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the lab furniture meets the specified requirements.</li> <li>- A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended</li> </ul>	
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	<p>installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</p>																																					
<b>LOT 2</b>																																						
	<p><b>CNC Router (Full-size Gantry)</b></p> <p>Accessories include:          Spindles &amp; Routers          Bits and Collets          Automatic Tool Changer          Vacuum Systems          Dust Collectors          Rotary Indexers          Enclosures          Production Aids</p> <p>Machine Specifications:</p> <table> <tr> <td>Cutting speed</td><td>10 in/s</td><td>(250 mm/s)</td></tr> <tr> <td>Jogging speed</td><td>30 in/s</td><td>(760 mm/s)</td></tr> <tr> <td>Move speed (X, Y)</td><td>12 in/s</td><td>(305 mm/s)</td></tr> <tr> <td>Move speed (Z)</td><td>6 in/s</td><td>(153 mm/s)</td></tr> <tr> <td>Positioning speed (X, Y)</td><td>30 in/s</td><td>(760 mm/s)</td></tr> <tr> <td>Positioning speed (Z)</td><td>15 in/s</td><td>(380 mm/s)</td></tr> <tr> <td>Step resolution</td><td>0.0004"</td><td>(0.010 mm)</td></tr> <tr> <td>Positional repeatability</td><td>0.002"</td><td>(0,051 mm)</td></tr> <tr> <td>Linear cutting power</td><td>150 lbs</td><td>(68kg)</td></tr> <tr> <td>X- and Y-axis drive system</td><td colspan="2">Rack and pinion</td></tr> <tr> <td>Z-axis drive system</td><td colspan="2">Rack and pinion</td></tr> <tr> <td>Input voltage</td><td colspan="2">220V, 60Hz, 3-phase</td></tr> </table> <p>Features:</p> <p>Fast, closed-loop motors fitted with low-backlash, tapered-hob gear heads on all three axes (two on the X-axis)</p> <p>Tough precision linear bearings on the moving gantry and hardened steel rails for the x-axis.</p> <p>Reliable rack-and-pinion power transmission on each axis.</p> <p>Impressive cutting speeds of up to 600 inches per minute (depending on cutting bit and material) and rapid transit speeds of 1,800 inches per minute.</p> <p>Step resolution of .0004".</p> <p>The positional accuracy of +/- .002".</p> <p>Sealed Industrial UL Certified Control Box.</p> <p>Emergency Stop disconnect switch in the Control Box with integrated and cabled remote Emergency Stop Buttons.</p> <p>Z-zero Touch-Off Plate and XY Proximity Switches.</p> <p>software to run your CNC.</p> <p>Dust Skirt ready to connect to your dust collector.</p> <p>Each new tool comes bundled with two powerful software programs to create CNC projects.</p>	Cutting speed	10 in/s	(250 mm/s)	Jogging speed	30 in/s	(760 mm/s)	Move speed (X, Y)	12 in/s	(305 mm/s)	Move speed (Z)	6 in/s	(153 mm/s)	Positioning speed (X, Y)	30 in/s	(760 mm/s)	Positioning speed (Z)	15 in/s	(380 mm/s)	Step resolution	0.0004"	(0.010 mm)	Positional repeatability	0.002"	(0,051 mm)	Linear cutting power	150 lbs	(68kg)	X- and Y-axis drive system	Rack and pinion		Z-axis drive system	Rack and pinion		Input voltage	220V, 60Hz, 3-phase		
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	<p>Shipped as four ready-to-assemble modules. On-site assembly and training are available. Free Tech Support and User Forum.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data process, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> <li>- Brochure with pictures must be provided during bid opening.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states</li> </ul>	
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	<p>the system is installed and ready to perform in compliance with specifications.</p> <p>If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</p>	
<b>LOT 3</b>		
1	<p><b>DRYING OVEN, 220 V</b></p> <p>Specifications: Volume capacity is at least 50 liters; the Number of shelves is 3 or more and should be adjustable, Setting temperature 15 to 300°C or better, Stainless steel interior and housing, with natural convection, stainless steel door and insulated with tempered glass observation window, LED display.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> </ul>	

	<ul style="list-style-type: none"> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <p>It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</p>	
2	<p><b>UV-VIS Spectrophotometer-Double beam, 220V</b></p> <p>Wavelength range: 190 - 1100nm  Spectral bandwidth: 0.5nm – 5nm  Photometric mode: Transmittance, Absorbance  Photometric range: -0.3-3.0 Abs  Photometric Accuracy: <math>\pm 0.002</math> Abs at 0.5 Abs, <math>\pm 0.004</math> Abs at 1.0 Abs, <math>\pm 0.006</math> Abs at 2.0 Abs  Photometric Repeatability: <math>&lt; \pm 0.001</math> Abs at 0.5 Abs, <math>&lt; \pm 0.001</math> Abs at 1 Abs, <math>&lt; \pm 0.003</math> Abs at 2 Abs  Baseline flatness: <math>&lt; \pm 0.0006</math> Abs (1000 to 190 nm one hour after light source turned on)  Noise level: <math>&lt; 0.00005</math> Abs (700 nm)  Detector: Silicon Photo diode  Compartment: reference and sample compartment analyze simultaneously for 6 samples or more.  Stray light: <math>&lt; 0.02\%</math> at 220nm (NaI), <math>&lt; 1.0\%</math> nm (KCl)</p>	

	<p>Inclusions</p> <p>UV-Vis Spectrophotometer workstation: UV Probe Software Complete</p> <p>UV-Vis Spectrophotometer Accessories: Quartz cuvette, 10mm path length – (2pcs), complete PC system and printer with continuous ink, O/S: Microsoft Windows 10, Hard Disk Drive: 1TB, Monitor: 21.5" LED Color monitor or better, Processor: i7, 32G RAM</p> <p>PC controlled or stand-alone placement of memory possible in PC, built-in and USB 1nm bandwidth.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul>	
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	<p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>	
3	<p><b>Digital Rotary Evaporator, 220V</b></p> <p>Specifications:</p> <p><b>Bath:</b>  Heating Capacity – 1300W or better  Temp. range heating bath – 20-210°C  Temp. accuracy bath - <math>\pm 1^{\circ}\text{C}</math>, or better  Material Heating Bath – Stainless Steel  Volume Heating Bath – 4.5 liters, maximum  Display- Digital LCD</p> <p><b>Rotary Evaporator</b>  Display rotation speed range – 10-280 rpm or better  Display – Digital LCD that indicates rotation speed, heating bath, and vapor temperature  Height adjustment – 155mm, or better  Condensing surface – 2,200 cm<sup>2</sup>  Inclusions: Diagonal coil condenser, vapor tube for the diagonal condenser, 1L receiving flask, 1L evaporator flask, feed tube with stopcock, vacuum seal, conical clip, spherical joint clip</p> <p><b>Vacuum Pump</b> – Variable vacuum, flowrate 19L/min</p> <p><b>Cooler System</b></p>	

	<p>Cooling Capacity – 400W or better Temp. range - -20 to 30°C Capacity – 2 liters or better Pump rate – 8 L/min or better</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states</li> </ul>	
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	<p>the system is installed and ready to perform in compliance with specifications.</p> <ul style="list-style-type: none"> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</li> </ul>	
4	<p><b>Binocular Microscope</b></p> <p>Body-interchangeable, inclined binocular body, 360° rotatable head, Eyepieces-highest quality 10X wide-angle anti-fungus field eyepiece. Objective-parfocal, antifungals coated 4x, 10x, 40x and 100x (oil immersion) with plan achromatic correction. Stage horizontal mechanical stage preferably 100 x 140 mm with fine graduations designed with convenient coaxial adjustment for slide manipulation preferable through 30x70 mm. Substage-abbe condenser focusable, continuously variable iris diaphragm. Illuminator-built-in LED light source with adjustable white light. Should provide dust cover and immersion oil. Electrical safety certification. Should work with input 220Vac supply.</p> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> </ul>	

	<ul style="list-style-type: none"> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> <li>- Calibration certificate traceable to international standards.</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures on the theory and principles of the instrument, its applications, software applications, data procession, and interpretation, as well as intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of equipment's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the installation, equipment maintenance, and troubleshooting.</li> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the instrument meets the specified requirements.</li> <li>- Test data and calibration certificates of the calibrating instruments used must be attached. A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul> <p><b>Site Visitation</b></p> <ul style="list-style-type: none"> <li>- It is the supplier's responsibility to become thoroughly familiar with the site of the intended installation, to determine everything necessary to accomplish the installation. Failure of the supplier</li> </ul>	
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	<p>to make a site visit does not relieve the supplier of responsibility to fully understand what is necessary to accomplish a successful and complete installation. The supplier should quote all essential pre-installation requirements and utility requirements.</p>	
	<p><b>Human Skeleton Model</b></p> <ul style="list-style-type: none"> <li>• Height: 168cm or more</li> <li>• Hanged or platformed base with wheels.</li> </ul> <p>Complete human adult bones.</p>	
	<p><b>Laboratory Micropipette Kit</b>  <b>Per set must have the following:</b></p> <ul style="list-style-type: none"> <li>• 4 units of adjustable single channel micropipette (0.5-10µL, 10-100µL, 100-1000 µL, 1000-5000 µL)</li> <li>• With digital display and tip ejector</li> <li>• Rotatable piston for volume adjustment</li> <li>• With pipette stand for 4 or more pipettes</li> <li>• 8 racks of sterile tips ( 2 racks for 10µL, 2 racks for 100µL, 2 racks for 200µL, 2 racks for 1000µL )</li> <li>• Tip Ejector collar and Tip cone must be made of chemical-resistant material.</li> </ul> <p><b>Service and Warranty</b></p> <ul style="list-style-type: none"> <li>- 1-year warranty on parts and services after commissioning and acceptance.</li> <li>- Provide detailed design layout and drawing based on the above specifications and floor plan.</li> <li>- Complete with necessary installation accessories for immediate operation and start-up</li> <li>- During the warranty period, the supplier must repair or replace any system component on-site at no charge. Labor and travel must be included in the warranty program.</li> <li>- Deliver, uncrate, set into place, make all the final connections and start-up of the instrument</li> </ul> <p><b>Training</b></p> <ul style="list-style-type: none"> <li>- The training should cover lectures and intensive hands-on operation. Basic and advanced troubleshooting and maintenance including the verification of lab furniture's performance should also be discussed. The training shall be conducted on-site.</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Authenticated training certificate of Service Personnel from the manufacturer related to the</li> </ul>	

	<p>installation, lab furniture maintenance, and troubleshooting.</p> <ul style="list-style-type: none"> <li>- Manufacturer's certificate of compliance and inspection.</li> <li>- 1 original copy and 1 photocopy of operating and service manuals in English.</li> <li>- Must provide the necessary information and test procedures required to prove that the lab furniture meets the specified requirements.</li> <li>- A certificate of qualification must also be issued.</li> </ul> <p><b>Testing and Acceptance</b></p> <ul style="list-style-type: none"> <li>- Acceptance testing will occur after completion of the training course and after the supplier states the system is installed and ready to perform in compliance with specifications.</li> <li>- If the system does not meet standard performance expectations, the Supplier will have one month to rectify the defects and clear the acceptance test, failing which, PSHS-ZRC reserve the right to get the equipment replaced by the Supplier at no extra cost to PSHS-ZRC. Succeeding conduct of the validation/qualification shall also be the responsibility and at the cost of the Supplier.</li> </ul>	
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## ***Section VIII. Checklist of Technical and Financial Documents***

# Checklist of Technical and Financial Documents

## I. TECHNICAL COMPONENT ENVELOPE

### *Class “A” Documents*

#### Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**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.

**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).

