PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

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

Government of the Republic of the Philippines

Philippine Science High School-Zamboanga Peninsula Region Campus

> Sixth Edition July 2020

Table of Contents

Gloss	ary of Acronyms, Terms, and Abbreviations	2
Sectio	on I. Invitation to Bid	5
Sectio	on II. Instructions to Bidders	8
1.	Scope of Bid	9
2.	Funding Information	9
3.	Bidding Requirements	9
4.	Corrupt, Fraudulent, Collusive, and Coercive Practices	9
5.	Eligible Bidders	9
6.	Origin of Goods	10
7.	Subcontracts	10
8.	Pre-Bid Conference	10
9.	Clarification and Amendment of Bidding Documents	10
10.	Documents comprising the Bid: Eligibility and Technical Components	10
11.	Documents comprising the Bid: Financial Component	11
12.	Bid Prices	11
13.	Bid and Payment Currencies	12
14.	Bid Security	12
15.	Sealing and Marking of Bids	12
16.	Deadline for Submission of Bids	12
17.	Opening and Preliminary Examination of Bids	12
18.	Domestic Preference	13
19.	Detailed Evaluation and Comparison of Bids	13
20.	Post-Qualification	13
21.	Signing of the Contract	13
Sectio	on III. Bid Data Sheet	15
Sectio	on IV. General Conditions of Contract	
1.	Scope of Contract	19
2.	Advance Payment and Terms of Payment	19
3.	Performance Security	19
4.	Inspection and Tests	19
5.	Warranty	20
6.	Liability of the Supplier	
Sectio	on V. Special Conditions of Contract	21
Sectio	on VI. Schedule of Requirements	
Sectio	on VII. Technical Specifications	44
Sectio	n VIII. Checklist of Technical and Financial Documents	60

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)

- The Philippine Science High School-Zamboanga Peninsula Region Campus through the FY 2021 Current Appropriation (R.A. 11518) intends to apply the sum of One Million One Hundred Sixty Thousand Pesos (P 1,160,000.00) for Lot 1, One Million Eight Hundred Forty Thousand Pesos (P 1,840,000.00) for Lot 2, and One Million Pesos (P 1,000,000.00) 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 **Ninety (90) 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 September 10, 2021 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 **One Thousand Pesos (P 1,000.00) for each lot.** 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 Conference¹ on September 21, 2020, 10:00 a.m. at

the Conference Room of Academic Building II, 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 *10:00 a.m. of October 4, 2021.* 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 *October 4, 2020* @ *10:01 in the morning* 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 09089215664 http://zrc.pshs.edu.ph/

12. You may visit the following websites:

For downloading of Bidding Documents:

PSHS-ZRC Website- http://zrc.pshs.edu.ph/category/bid/

PhilGEPS Website- https://philgeps.gov.ph/

September 10, 2021

(SGD.) HAZEL R. LAGAPA

Chairperson, Bids and Awards Committee (Goods)

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, with identification number 2021-09-0185.*

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 *Current Year* 2021 in the amount of *Four Million Pesos* (*P* 4,000,000.00).
- 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, exwarehouse, 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 Declaration² 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.

 $^{^{2}}$ 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	For this purpose, contracts similar to the Project shall be:					
	a. Procurement of Technical and Scientific Equipment (Supply, Delivery, Installation, and Training)					
	b. Completed within <i>five (5) years</i> prior to the deadline for the submission and receipt of bids.					
7.1	Not applicable					
12	The price of the Goods shall be quoted DDP with the place of destination in the <i>Philippines</i> .					
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:					
	LOT 1: Approved Budget of the Contract is One Million One Hundred Sixty Thousand Pesos (P 1,160,000.00)					
	a. The amount of not less than Twenty Three Thousand Two Hundred Pesos (P 23,200.00) , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or					
	b. The amount of not less than Fifty Eight Thousand Pesos (P 58,000.00) , if bid security is in Surety Bond.					
	LOT 2: Approved Budget of the Contract is One Million Eight Hundred Forty Thousand Pesos (P 1,840,000.00)					
	a. The amount of not less than Thirty Six Thousand Eight Hundred Pesos (P 36,800.00), if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or					
	b. The amount of not less than Ninety Two Thousand Pesos (P 92,000), if bid security is in Surety Bond.					
	LOT 3: Approved Budget of the Contract is One Million Pesos (P 1,000,000.00)					
	a. The amount of not less than Twenty Thousand Pesos (P 20,000.00) , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or					
	b. The amount of not less than Fifty Thousand Pesos (P 50,000.00), if bid security is in Surety Bond.					

10.2	LOT 1:
19.5	Supply, Delivery of Physics Amateur Radio Satellite Ground Station Equipment
	LOT 2:
	Supply, Delivery, Installation, and Training for Physical and Biochemical Equipment
	LOT 3:
	Supply and Delivery of Technical and Musical Equipment
20.2	Not applicable.

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

- 2.1. Advance payment of the contract amount is provided under Annex "D" of the revised 2016 IRR of RA No. 9184.
- 2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

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

4. Inspection and Tests

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

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

GCC Clause 1 **Delivery and Documents –** For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows: The delivery terms applicable to the Contract are DDP delivered within the Philippines. In accordance with INCOTERMS." The delivery terms applicable to this Contract are delivered within the *Philippines.* Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination." Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements). For purposes of this Clause the Procuring Entity's Representative at the Project Site is **Robinson S. Luzon** SST-III Incidental Services – The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements: performance or supervision of on-site assembly and/or start-up of a. the supplied Goods; furnishing of tools required for assembly and/or maintenance of the b. supplied Goods; furnishing of a detailed operations and maintenance manual for each c. appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

Special Conditions of Contract

 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. 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.
Spare Parts – The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:
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
b. in the event of termination of production of the spare parts:
i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and
ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.
The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the costs thereof are included in the contract price. The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of one (1)
year. Spare parts or components shall be supplied as promptly as possible of placing the order.
Packaging –The Supplier shall provide such packaging of the Goods as is required to preventtheir damage or deterioration during transit to their final destination, asindicated in this Contract. The packaging shall be sufficient to withstand,without limitation, rough handling during transit and exposure to extremetemperatures, salt and precipitation during transit, and open storage. Packagingcase size and weights shall take into consideration, where appropriate, theremoteness of the Goods' final destination and the absence of heavy handlingfacilities at all points in transit.The packaging, marking, and documentation within and outside the packagesshall comply strictly with such special requirements as shall be expresslyprovided for in the Contract, including additional requirements, if any, specifiedbelow, and in any subsequent instructions ordered by the Procuring Entity.

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

2.2	Not applicable.
4	The inspections and tests that will be conducted are: Refer to the Technical Specifications 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:

Item Number	Description	Quantity	Total	Delivered, Weeks/ Months
LOT 1 Supply, Deli	very of Physics Amateur Radio Satellite Ground Stat	tion Equipment		
1	All Mode VHF/UHF Transceiver	1 unit	1 unit	3 months
	Frequency coverage : 144.000–148.000, 430.000– 450.000, 1240.000–1300.000 MHz			
	Mode: SSB, CW, RTTY, AM, FM, DV, DD			
	Number of channels: 107 (99 Simplex + 6 Program scan edges + 2 CALL) × 3 bands, 99 (Satellite), 2500 (DR function)			
	Antenna connectors: 144 MHz SO-239 (50 Ω), 430/440, 1200 MHz Type-N (50 Ω)			
	Power supply requirement: 13.8 V DC \pm 15% (Negative ground)			
	Transmitter Output power (144 MHz) 144 MHz 430/440 MHz 1200 MHz			
	SSB/CW/FM/RTTY/DV/DD 0.5–100 W 0.5–75 W 0.1–10 W			
	AM 0.125–25 W 0.125–18.75 W 0.025–2.5 W			
	Receiver Receiver system:			
	Audio output power: More than 2.0 W (1 kHz, 10% distortion) into an 8 Ω load			

	With NTC License			
2	HF/50MHz All Mode Transceiver	1 unit	1 unit	3 months
	Frequency coverage Rx: 0.030– 60.000 MHz			
	Tx: 1.800–1.999, 3.500–3.999, 5.255–5.405 7.000–7.300, 10.100–10.150, 14.000–14.350, 18.068–18.168, 21.000–21.450, 24.890–24.990, 28.000–29.700, 50.000–54.000 MHz			
	Mode: USB, LSB, CW, RTTY, PSK31/63, AM, FM			
	Number of channels: 101 (99 regular, 2 scan edges)			
	Antenna connectors: SO-239 × 2 (50 Ω unbalanced (Tuner off))BNC × 1 (RX antenna In/Out)			
	Power supply requirement: 13.8 V DC ±15%			
	Power consumption TX: 23 A (at 100 W output power) RX: 3.0 A (Standby), 3.5 A (Maximum audio) Transmitter Output power (HF/50 MHz): SSB/CW/FM/RTTY/PSK: 1–100 WAM: 1–25 W Digital P.S.N.			
	Receiver Receiver system: Direct Sampling Super heterodyne			
	With NTC License			
3	Antenna Azimuth-Elevation Rotator and Controller	1 unit	1 unit	3 months
	Voltage requirement: 110-120 or 200-240 VAC Motor voltage: 24 VAC(apprx., @60Hz): Rotation time: Elevation (180°): 67 sec. Azimuth (360°): 58 sec Maximum continuous operation: 5 minutes Rotation torque: Elevation: 14 kg-m, Azimuth: 6 kg- m Braking torque: Elevation: 40 kg-m, Azimuth: 40 kg-m Vertical load: 200 kg Pointing accuracy: <u>+</u> 4 % Wind surface area: 1 m Control cables: 2 x 6 conductors - #20 AWG or larger Mast diameter: 38-63 mm Boom diameter: 32-42 mm			
	Weight Rotators: 9 kg Controller: 3 kg			

4	Antenna Azimuth Rotator and Controller	1 unit	1 unit	3 months
	 Power Supply Voltage: 117/220 VAC, 50-60 Hz Power Supply Current Consumption: 1.0 A Rotor Voltage: 11-24 VDC Cable Conductors Required: 6 360° Rotation Time (Non Loaded): 100 ± 10 sec to 0 40 ± 5 sec (Variable) Rotation Range: 450° ± 3° Rotation Torque: 600 to 1,100 kgf- cm Braking Torque: 4,000 kgf- cm Maximum Vertical Load: 200 kg or less (continuous)800 kg (momentary) Mast Outside Diameter: 1.5 to 2.5 inches (38 to 63 mm) Braking Type: Mechanical and Electrical stoppers Rotator Dimension: 7.5 inches diameter 12.5 inches high (186 x 300 mm) Rotator Weight: Approx. 7.7 Lbs. (3.6 kg) Controller Dimension (WHD): 200 x 130 x 193 mm 			
	Controller Weight: Approx. 2.8 kg			
5	Computer Control Interface for Antenna Rotators	2 unit	2 unit	3 months
	Power Requirements: DC 12 V, 110 mA Case Size: 110 (W) x 21 (H) x 138 (D) mm Weight (approx.): 380 g Semiconductors Microprocessor: ROM: HD6303XP RAM: 27C64 A/D Converter: HD46508PA (10 bits) Serial Comms: 3-wire Async. DCE RS-232C voltage levels: 150 to 9600 baud, 8 data bits, 1 stop bit, no parity, no handshake			
6	Coax Cable (Low Loss Cable) Generic Name: LMR-400 Flex Type: Flexible Impedance: 50 Ohm Dielectric Type: PE (F) Velocity of Propagation: 85 % Jacket Diameter: 0.405 in Jacket Material: PE No. of Shields: 2 Attenuation at 1 Ghz.: 4.25 dB RF Shielding: 90 dB Frequency, Max: 6 GHz Max Operating Temperature: 85° C Center Conductor Type: Solid Coax Type: Coax	50 length	50 length	3 months

7	VHF/UHF Preamplifier	2 unit	2 unit	3 months
	Preamplifier Location: Mast mount			
	Preamplifier Frequency Range: 144-148 MHz			
	Preamplifier Gain: 15 dB/25 dB			
	Noise Figure: under 1.0 dB			
	Automatic RF			
	Switching			
	Power Handling: 100 W			
	Antenna Feedline Connection Type: UHF female, SO-			
	239			
	Optimal Voltage Range: 13.6-15 Vdc			
	Enclosure Width: 4 000 in			
	Enclosure Width 4.000 in			
	Enclosure Depth: 2 500 in			
	Enclosure Depth. 5.500 In			
	Unit Width: 4,250 in			
	Unit Height: 2.212 in			
	Unit Depth: 1 199 in			
8	SM-50 (Microphone)	2 unit	2 unit	3 months
Ŭ		2 01110	2 0111	o montino
	Microphone Element: Dynamic			
	Sensitivity: $-30 \text{ dB} + 4 \text{ dB} (1 \text{ kHz} 0 \text{ dB} = 1 \text{ V/1 Pa})$			
	Impedance: 55 Ohms \pm 30% (at 1 kHz)			
	Power requirement: 5 10 VDC			
	Weight: 26 oz. (730g)			
	Cable length: 20 inches $(1m)$			
9	Power Supply	2 unit	2 unit	3 months
	Power Supply Type: Linear, Regulated			
	Power Supply Continuous Output: 23A at 13.8 Vdc			
	Power Supply Peak Output: 30A at 13.8 Vdc			
	Power Supply Metering Type: Dual meters			
	Power Supply Cooling Type: Fan			
10	144/430(2m/70cm) Dual Band Antenna	2 unit	2 unit	3 months
	Vertical Antonno University 04 ft			
	Vertical Antenna Height: 24 ft.			
	Antenna Material: Fiberglass			
	Antenna Power Rating: 200 W			
	Antenna Connector: Type N, female			
	Mast Mounting Type: Clamp-on			
44	UEN/UE Divital SW/D/Mattmatar	1	4	2 magnetics
				Smonths
	Meter Frequency Range: 1 8-60/125-525 MHz			
	Minimum Power Range: 2W/			
	Middle Power Range: 20 W			
	Maximum Power Range: 20 W			
	Matar Style: LCD Multi function display			
	Motor DE Connoctor Tuno: LILE fomola SO 220			
	External Dower Input Veltage: 10 14 Vela			
	External Power input voltage. 10-14 V0C			

12	Software Define Radio In black brushed aluminum enclosure. SDR frequency capability approximately 25MHz- 1700MHz. RTL282U Demodulator/USB interface IC R820T2 tuner IC 0.5PPM, ultra-low phase noise TCXO RF-suitable voltage regulator Shielded primary inductor Integrated custom heat sink Female SMA antenna input High-quality black brushed aluminum enclosure Through-hole direct sampling pads on PCB TCXO Specifications: Frequency stability: 0.5PPM (max) Phase noise @kHz offset: -8dBc/Hz (or better) Phase noise @0kHz: -50dBc/Hz (or better) Phase noise @00kHz: -52dBc/Hz (or better)	1 unit	1 unit	3 months
13	ROBOTICS AI SET, ADVANCE - Intelligent Brick (1) - Rechargeable battery pack (1) - Interactive servo motors with built in rotation motor (3) - Ultrasonic sensor (1) - Touch sensors (2) - Gyro sensor (1) - Color sensor (1) - Color sensor (1) - Connecting Cables - Ball Wheel - Technic Building bricks for creating a vast variety of models - Element overview, etc. - Storage box incl. sorting tray - Total piece count 541 - With Charger - 10 VDC transformer plugs into an AC outlet to recharge your Rechargeable DC Battery. With robotics software - With One (1) Portable Robotics Playing Field mat 1150mm x 2370mm	5 set	5 set	3 months
14	ROBOTICS AI Expansion Set for Advance - Gears - Large turntable - Robot personalization parts - Beams - Axles and connectorsf - With at least 800 building elements Delivered in a sturdy and stackable plastic storage bin.	3 set	3 set	3 months

Item Number	Description	Quantity	Total	Delivered, Weeks/ Months			
LOT 2 Supply, Deli	LOT 2 Supply, Delivery, Installation, and Training for Physical and Biochemical Equipment						
1	Telescope - Optical Design: Newtonian Reflector - Aperture: 200mm (7.87") - Focal Length: 1000mm (39") - Focal ratio f/5 - Focal length of eyepiece 1: 20mm(.8") - Magnification of eyepiece 1: 50x - Optical tube: Aluminum - Limiting Stellar Magnitude: 14 - Resolution (Rayleigh): 0.7 arcseconds - Resolution (Dawes): 0.58 arcseconds - Optical Tube Diameter: 235mm (9.25") - Optical Tube Length: 914mm (36") - At least one (1) year warranty.	1 unit	1 unit	3 months			
2	Laser Cutter - Working area: 1300mm*900mm - Laser power 100W (80W, 130W, 150W, 180W, 280W and 300W for option) - Laser type: CO2 sealed laser tube - Driving system: Leadshine stepper motor - Transmission: Fulong belt transmission - Control System: Ruida control system RD6442S - Laser Engraving Speed: 0-7500mm/min - Laser Cutting Speed: 0-4000mm/min - At least one (1) year warranty.	1 unit	1 unit	3 months			
3	3D Printer - Printing volume: W27: 420x300x220mm - Minimum layer height: 0.05 mm - Max.printing temp.: 280°c - Max. Heated bed temp: 120°c - Certificates: CE / FCC - At least one (1) year warranty.	1 unit	1 unit	3 months			
4	Digital Tachometer - contact or non-contact measurement; - angular velocity= 100-1000Hz; - built-in transducer 12" operating distance; - operating temp: 0 deg C-50 deg C; - Weight = 2 lbs; - Humidity= 95% R. H. - At least one (1) year warranty.	1 unit	1 unit	3 months			

5	Thermal Cycler	1 unit	1 unit	3 months
	- block format,			
	- 96-well.			
	- 0.2 ml ·			
	- sample volume: 15-100microl iters:			
	with 0.2 mL eppendorf tubes (500pcs) with eppendorf			
	rack			
	At least one (1) year warranty			
6	Digital Microscope	1 sot	1 sot	3 months
U I	total magnification: 40x 100x 400x 1000x	1 301	1 301	
	Camera: HS 2D: Meganivel eveniece USB camera			
	compatible with Windows 10, 8, 7, Vista, VD (32, 8, 64			
	bit) Includes software. Contures images 2048 x 1536			
	At logat one (1) year warranty			
7	Cal Electrophoronia	1 aat	1 aat	2 months
<i>'</i>	Get Electrophoresis	i set	rset	3 months
	- must have get trays, combs, casting stand, get tank			
	and digital power supply			
	- sample size: more than 100 samples			
	- runs 6x6 cm to 12.5x12cm gels			
	- with timer: U -99 hours, or continuous, audible alert			
	- gel capacity: 2 large (12.5 x 12 cm), 2 small (12.5 x 6			
	cm), micro (6 x 6 cm)			
	- program memory			
	- control of set voltage, amperage and time			
	- electrical: universal			
-	- At least one (1) year warranty.			-
8	Blue light transilluminator	1 unit	1 unit	3 months
	- LED source: Blue LED			
	- Emission Max: 470 nm			
	- Instrument dimensions (L x W x H): 32.5 × 19.5 × 6.5			
	cm			
	(12.8 × 7.7 × 2.6 in)			
	- Viewing surface dimensions (19 × 19 cm (7.5 × 7.5 in)			
	- At least one (1) year warranty.			
9	Vortex Mixer	1 unit	1 unit	3 months
	- max speed is 3,500 rpm			
	 mixing and vortexing radius is 1.5 mm 			
	- mixing frequency is 300 - 3,000 rpm			
	- timer: 15 s – 99.3 h, continuous			
	- noise level: <50 dB(A)			
	- power supply: 230V, 50 - 60 Hz			
	 m1 Uax power consumption: 40W 			
	- dimensions (DXWXH): 17.0 × 23.0 × 13.0 cm / 6.7 ×			
	9.1 × 5.1 in			
	 At least one (1) year warranty. 			
10	Dry Bath Incubator	1 unit	1 unit	3 months
	 Microprocessor control with digital performance for 			
	precise, accurate control			
	- Unit Dimensions (W x L x H) 200 x 290 x 80mm			
	- User temperature calibration			
	- Molded aluminum alloy chamber			
	- Temperature Control Range 5° C above			
	ambient to 150 ° C			
	At least one (1) year warranty			
L	r ni icasi ulic (1) year wallanly.			

11	Freezer (-20 °C)	1 unit	1 unit	3 months
	- minimum storage temperature: -20 ~ -25°C			
	- max capacity: 350 L			
	 External dimensions (width * depth * height) mm: 			
	810*735*1960			
	 Internal dimensions (width * depth * height) mm: 			
	(650*570*627)*2			
	- with over-temperature alarm function			
	- At least one (1) year warranty.			
12	Distillator	1 unit	1 unit	3 months
	- bench top			
	- output: ASTM Type 1 water			
	- At least one (1) year warranty.			

Item Number	Description	Quantity	Total	Delivered , Weeks/ Months
LOT 3 Supply and	Delivery of Technical and Musical Equipment	·		
1	Bass Amplifier *165 watts; solid state bass amp; onboard compressor/limiter; 7 band graphic EQ	2 unit	2 unit	3 months
2	Keyboard Amplifier *for all instruments (bass. G not advisable); 150 watts; 5 channels	2 unit	2 unit	3 months
3	Professional CPR Mannequin Family Pack *One (1) Adult Medium Skin Mannequin (with CPR Monitor); One (1) Child Medium Skin Mannequin (with CPR Monitor); One (1) Infant Medium Skin Mannequin (with CPR Monitor) *with 10 Adult Face-Shield Lung Bags, 10 Child Face- Shield Lung Bags and 10 Infant Face-Shield Lung Bags, an Instruction Sheet and a nylon carrying case *All mannequins come with Light Indicator and Audible Clicker	2 set	2 set	3 months
4	BWF Approved PVC Floor Carpet Synthetic Badminton Shuttle Court Flooring Mat Roll Size: 15m × 1.8m Thickness:4.5mm,4.8mm, 5.0mm,5.5mm 7.0mm Thickness of wear-resisting layer: 1.0mm-1.8mm Color: green/blue Surface Pattern: Crystal sand Surface Treatment: High super-durable anti-slip wear layer Usage: Badminton court Layers: 7.0mm/5.5mm/5.0mm/4.8mm/4,5mm thick high-durable anti-slip crystal-surfaced layer Compound high-strength polyester mesh stable layer Compound glass fiber mesh anti-shrink layer Double-foaming buffer layer with high density	2 roll	2 roll	3 months
5	Folding Table Tennis Table 15mm For Indoor Use Field of use: IndoorAssembled: Semi assembled, approx 15 minutes to be ready. Table top: 15 mm Net set: Included Net weight: 66 kg Gross weight: 70 kg Frame size: 15 x 30 mm	2 set	2 set	3 months

	Thickness 1.2mm			
	Leg Size : Square Tubular Profile 20 x 30 mm & 30 x			
	30 mm			
	Heavy Duty Wheels : Size 50mm			
	Diameter All 8 maneuverable wheels (4 with brakes)			
	· · · · · · · · · · · · · · · · · · ·			
6	Drone guadcopter with 24-48mm optical zoom	2 unit	2 unit	3 months
	camera video UAV 12MP 1/2. 3" Cmos sensor (US			
	version)			
	Features & details			
	• 1/2 3-inch 12MP sensor with up to 4x zoom			
	including a 2x optical zoom (24–48 mm)			
	 Un to 31 minutes flight time 44 mph max 			
	speed 905G takeoff weight 3-avis gimbal for			
	steady shots 8GR internal storage SD card			
	Support up to 128 GB			
	Europeine include ActiveTrack 2.0			
	 Turctions include Active Flack 2. 0, Omnidirectional Obstacle Sensing 			
	Hyperlance Lew Neise Design Adjustable			
	Aporturo HDP Photos Delight, Aujustable			
	Aperiure, HDR Photos, Doily 20011			
	• 155 minutes of battery life of a full charge.			
7	2 Avia Cimbal Stabilizar for DSL B & Mirrorlaga	2 unit	2 unit	2 months
'	S-AXIS GIIIIDAI SIADIIIZEI IOI DSLR & MIITOHESS		z unit	S monuns
	Cameras			
	Detetable Angle : Tilt 220° : Dell 260° /Lalimited): Den			
	Rolalable Angle . The 250 , Roll 500 (Uninfilled), Pan			
	sou (Uniimited)			
	Merking Medee : Depping Mede/UE): Follow			
	Mede(TE): Leek Mede(LK): All Fellow Mede (AE)			
	Mode(TF), LOCK MOde(LK), All Follow Mode (AF)			
	Controllable Bange : Tilt : 175° to 55°: Ball: : 20°			
	Controllable Range . The ± 175 to ± 55 , Roll. ± 50			
	(when controlled by Holizonial Adjustment Button)			
	follow mode, it could be controlled to rotate 260° by			
	ionow mode, it could be controlled to rotate 300 by			
	oystick)Pan: 360° (unlimited)			
	Usage Time : 12 nours (vvnen camera is balanced with			
	gimaai)			
	Charging Time : 25 nours by the charger provided and			
	the adapter 5V/3A.			
0	D'Iomhou (African Daroussian)		0	Ques que the q
ŏ	D Jempe: (African Percussion)	z unit	z unit	3 months
	12" Skin head			
	- Thai mango wood shell			
	- Tera cotta finish			
	- non-stretch adjustable rone for tuning			
	Service and Warranty			
	- 1-year warranty on parts and services after			
	commissioning and acceptance and 1-year			
	free calibration and preventive maintenance			

	on site.	 	
	- Complete with necessary installation		
	accessories for immediate operation and		
	start-up		
	- 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.		
	- Deliver, uncrate, set into place, make all the		
	final connections and start-up of the		
	instrument		
	- Calibration certificate traceable to		
	international standards		
-	Training		
	- 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. Rasic and		
	advanced troubleshooting and maintenance		
	including the verification of equipment's		
	nerformance should also be discussed. The		
	training shall be conducted on-site		
	Documentation		
	- Authenticated training certificate of Service		
	Personnel from the manufacturer related to		
	the installation equipment maintenance and		
	troubleshooting		
	- 1 original copy and 1 photocopy of operating		
	and service manuals in English		
	 Must provide the necessary information and 		
	test procedures required to prove that the		
	instrument meets the specified requirements		
	 Test data and calibration certificates of the 		
	calibrating instruments used must be		
	attached A certificate of qualification must		
	also be issued		
	 Brochure with pictures must be provided 		
	during bid opening.		
	Testing and Acceptance		
	- 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		
	- 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-7RC		
	reserves the right to get the equipment		
	replaced by the Supplier at no extra cost to		
	PSHS-ZRC Succeeding conduct of the		
	validation/gualification shall also be the		
	responsibility and at the cost of the Supplier		

Section VII. Technical Specifications

Technical Specifications

Item	Specification	Statement of Compliance
		State here either "Comply" or "Not Comply" against each of theindividual parameters of each Specification stating the corresponding performance parameter of the equipment offered.
LOT 1 S	Supply, Delivery of Physics Amateur Radio Satellite Ground St	ation Equipment
1	All Mode VHF/UHF Transceiver Frequency coverage : 144.000–148.000, 430.000–450.000, 1240.000–1300.000 MHz Mode: SSB, CW, RTTY, AM, FM, DV, DD	
	2 CALL) × 3 bands, 99 (Satellite), 2500 (DR function) Antenna connectors: 144 MHz SO-239 (50 Ω), 430/440, 1200 MHz Type-N (50 Ω) Power supply requirement: 13 8 V DC +15% (Negative ground)	
	Transmitter Output power (144 MHz) 144 MHz 430/440 MHz 1200 MHz	
	SSB/CW/FM/RTTY/DV/DD 0.5–100 W 0.5–75 W 0.1–10 W	
	AM 0.125–25 W 0.125–18.75 W 0.025–2.5 W	
	Receiver Receiver system:	
	Audio output power: More than 2.0 W (1 kHz, 10% distortion) into an 8 Ω load	

	With NTC License	
2	HE/50MHz All Mode Transcolver	
2		
	Frequency coverage	
	Rx: 0.030– 60.000 MHz	
	Tx: 1.800–1.999, 3.500–3.999, 5.255–5.405	
	7.000–7.300, 10.100–10.150, 14.000–14.350,	
	18.068–18.168, 21.000–21.450, 24.890–24.990,	
	28.000–29.700, 50.000–54.000 MHz	
	Made LICE LOD OW DITY DOVO1/02 AM EM	
	MODE: USB, LSB, CW, RTTY, PSK31/03, AM, FM	
	Number of channels: 101 (99 regular, 2 scan edges)	
	Number of charmels. Tot (33 regular, 2 scarredges)	
	Antenna connectors: SO-239 × 2 (50 Q unbalanced (Tuner	
	off))BNC × 1 (RX antenna In/Out)	
	Power supply requirement: 13.8 V DC ±15%	
	Power consumption	
	IX: 23 A (at 100 W output power)	
	RX: 3.0 A (Standby), 3.5 A (Maximum audio)	
	I ransmitter	
	MAM: 1. 25 M Digital D S N	
	WAW. 1-25 W Digital F.S.N.	
	Receiver	
	Receiver system: Direct Sampling Super heterodyne	
	, , , , , , , , , , , , , , , , , , , ,	
	With NTC License	
-		
3	Antenna Azimuth-Elevation Rotator and Controller	
	Voltage requirement: 110-120 or 200-240 VAC	
	NOUT VOILAGE. 24 VAC($appr.$, $@00 \square 2$). Potation time: Elevation (180°): 67 sec	
	$\Delta z_{\rm invite}$ (360°): 58 sec	
	Maximum continuous operation: 5 minutes	
	Rotation torque: Elevation: 14 kg-m. Azimuth: 6 kg-	
	m	
	Braking torgue: Elevation: 40 kg-m, Azimuth: 40 kg-m	
	Vertical load: 200 kg	
	Pointing accuracy: <u>+</u> 4 %	
	Wind surface area: 1 m	
	Control cables: 2 x 6 conductors - #20 AWG or larger	
	Mast diameter: 38-63 mm	
	Boom diameter: 32-42 mm	
	KOTATOIS: 9 Kg Controller: 2 kg	

4	Antenna Azimuth Rotator and Controller	
	Power Supply Voltage: 117/220 VAC, 50-60 Hz Power Supply Current Consumption: 1.0 A Rotor Voltage: 11-24 VDC Cable Conductors Required: 6 360° Rotation Time (Non Loaded): 100 ± 10 sec to 0 40 ± 5 sec (Variable) Rotation Range: 450° ± 3° Rotation Torque: 600 to 1,100 kgf-cm Braking Torque: 4,000 kgf-cm Maximum Vertical Load: 200 kg or less (continuous)800 kg	
	(momentary) Mast Outside Diameter: 1.5 to 2.5 inches (38 to 63 mm) Braking Type: Mechanical and Electrical stoppers Rotator Dimension: 7.5 inches diameter 12.5 inches high (186 x 300 mm) Rotator Weight: Approx. 7.7 Lbs. (3.6 kg) Controller Dimension (WHD): 200 x 130 x 193 mm Controller Weight: Approx. 2.8 kg	
5	Computer Control Interface for Antenna Rotators Power Requirements: DC 12 V, 110 mA Case Size: 110 (W) x 21 (H) x 138 (D) mm Weight (approx.): 380 g Semiconductors Microprocessor: ROM: HD6303XP RAM: 27C64 A/D Converter: HD46508PA (10 bits) Serial Comms: 3-wire Async. DCE RS-232C voltage levels: 150 to 9600 baud, 8 data bits, 1 stop bit, no parity, no handshake	
6	Coax Cable (Low Loss Cable) Generic Name: LMR-400 Flex Type: Flexible Impedance: 50 Ohm Dielectric Type: PE (F) Velocity of Propagation: 85 % Jacket Diameter: 0.405 in Jacket Material: PE No. of Shields: 2 Attenuation at 1 Ghz.: 4.25 dB RF Shielding: 90 dB Frequency, Max: 6 GHz Max Operating Temperature: 85° C Center Conductor Type: Solid Coax Type: Coax	

7	VHF/UHF Preamplifier	
	Preamplifier Location: Mast mount Preamplifier Frequency Range: 144-148 MHz Preamplifier Gain: 15 dB/25 dB Noise Figure: under 1.0 dB Automatic RF Switching	
	Power Handling: 100 W Antenna Feedline Connection Type: UHF female, SO-239 Optimal Voltage Range: 13.6-15 Vdc	
	Enclosure Width: 4.000 in. Enclosure Height: 3.000 in. Enclosure Depth: 3.500 in	
	Unit Width: 4.250 in. Unit Height: 2.313 in. Unit Depth: 1.188 in.	
8	SM-50 (Microphone)	
	Microphone Element: Dynamic Sensitivity: -30 dB ± 4dB (1 kHz, 0 dB = 1 V/1 Pa) Impedance: 55 Ohms ± 30% (at 1 kHz) Power requirement: 5-10 VDC Weight: 26 oz. (730g) Cable length: 39 inches (1m)	
9	Power Supply	
	Power Supply Type: Linear, Regulated Power Supply Continuous Output: 23A at 13.8 Vdc Power Supply Peak Output: 30A at 13.8 Vdc Power Supply Metering Type: Dual meters Power Supply Cooling Type: Fan	
10	144/430(2m/70cm) Dual Band Antenna	
	Vertical Antenna Height: 24 ft. Antenna Material: Fiberglass Antenna Power Rating: 200 W Antenna Connector: Type N, female Mast Mounting Type: Clamp-on	
11	HF/VHF Digital SWR/Wattmeter	
	Meter Frequency Range: 1.8-60/125-525 MHz Minimum Power Range: 2W Middle Power Range: 20 W Maximum Power Range: 200 W Meter Style: LCD Multi-function display Meter RF Connector Type: UHF female, SO-239 External Power Input Voltage: 10-14 Vdc	

12	Software Define Radio	
	In black brushed aluminum enclosure. SDR frequency capability approximately 25MHz-1700MHz.	
	RTL282U Demodulator/USB interface IC R820T2 tuner IC 0.5PPM, ultra-low phase noise TCXO RF-suitable voltage regulator Shielded primary inductor Integrated custom heat sink Female SMA antenna input High-quality black brushed aluminum enclosure Through-hole direct sampling pads on PCB TCXO Specifications: Frequency stability: 0.5PPM (max) Phase noise @kHz offset: -8dBc/Hz (or better) Phase noise @0kHz: -50dBc/Hz (or better) Phase noise @00kHz: -52dBc/Hz (or better)	
13	ROBOTICS AI SET, ADVANCE - Intelligent Brick (1) - Rechargeable battery pack (1) - Interactive servo motors with built in rotation motor (3) - Ultrasonic sensor (1) - Touch sensors (2) - Gyro sensor (1) - Color sensor (1) - Connecting Cables - Ball Wheel - Technic Building bricks for creating a vast variety of models - Element overview, etc. - Storage box incl. sorting tray - Total piece count 541 - With Charger - 10 VDC transformer plugs into an AC outlet to recharge your Rechargeable DC Battery. With robotics software - With One (1) Portable Robotics Playing Field mat 1150mm x 2370mm	
14	ROBOTICS AI Expansion Set for Advance - Gears - Large turntable - Robot personalization parts - Beams - Axles and connectorsf - With at least 800 building elements Delivered in a sturdy and stackable plastic storage bin.	
	LOT 2 Supply, Delivery, Installation, and Training for Physical and Biochemical Equipment	
1	Telescope - Optical Design: Newtonian Reflector - Aperture: 200mm (7.87") - Focal Length: 1000mm (39")	

	- Focal ratio f/5	
	- Focal length of eyepiece 1: 20mm(.8")	
	- Magnification of eyepiece 1: 50x	
	- Optical tube: Aluminum	
	- Limiting Stellar Magnitude: 14	
	- Resolution (Rayleigh): 0.7 arcseconds	
	- Resolution (Dawes): 0.58 arcseconds	
	- Optical Tube Diameter: 235mm (9.25")	
	- Optical Tube Length: 914mm (36")	
	- At least one (1) year warranty.	
2		
2	Working area: 1300mm*900mm	
	Laser power 100W (80W 130W 150W 180W 280W and 300W	
	for option)	
	Lasar type: CO2 soaled lasar type	
	Driving system: Leadshing stapper motor	
	Transmission: Eulong bolt transmission	
	Control System: Duide control system DD6112S	
	- Control System. Rulud Control System RD04425	
	- Laser Engraving Speed. 0-7500mm/min	
	- Laser Cutting Speed: 0-4000mm/min	
	- At least one (1) year warranty.	
3	3D Printer	
	- Printing volume: W27: 420x300x220mm	
	- Minimum layer height: 0.05 mm	
	- Max.printing temp.: 280°c	
	- Max. Heated bed temp: 120°c	
	- Certificates: CE / FCC	
	- At least one (1) vear warranty.	
4	Digital Tachometer	
	- contact or non-contact measurement;	
	- angular velocity= 100-1000Hz;	
	- built-in transducer 12" operating distance;	
	- operating temp: 0 deg C-50 deg C;	
	- Weight = 2 lbs;	
	- Humidity= 95% R. H.	
	- At least one (1) year warranty.	
5	Thermal Cycler	
	- block format,	
	- 96-well,	
	- 0.2 mL;	
	 sample volume: 15-100microLiters; 	
	with 0.2 mL eppendorf tubes (500pcs) with eppendorf rack	
	- At least one (1) year warranty.	
6	Digital Microscope	
	- total magnification: 40x, 100x, 400x, 1000x	
	- Camera: HS-2D; Megapixel eyepiece USB camera compatible	
	with Windows 10, 8, 7, Vista, XP (32 & 64 bit). Includes software.	
	Captures images 2048 x 1536.	
	At least one (1) year warranty.	

7	Gel Electrophoresis	
	- must have gel trays, combs, casting stand, gel tank and digital	
	power supply	
	 sample size: more than 100 samples 	
	- runs 6x6 cm to 12.5x12cm gels	
	- with timer: 0 -99 hours, or continuous, audible alert	
	- gel capacity: 2 large (12.5 x 12 cm), 2 small (12.5 x 6	
	cm), micro (6 x 6 cm)	
	- program memory	
	 control of set voltage, amperage and time 	
	- electrical: universal	
	- At least one (1) year warranty.	
8	Blue light transilluminator	
	- LED source: Blue LED	
	- Emission Max: 470 nm	
	- Instrument dimensions (L x W x H): 32.5 × 19.5 × 6.5 cm	
	(12.8 × 7.7 × 2.6 in)	
	- Viewing surface dimensions (19 × 19 cm (7.5 × 7.5 in)	
	- At least one (1) year warranty.	
9	Vortex Mixer	
	- max speed is 3,500 rpm	
	 mixing and vortexing radius is 1.5 mm 	
	- mixing frequency is 300 - 3,000 rpm	
	- timer: 15 s – 99.3 h, continuous	
	- noise level: <50 dB(A)	
	- power supply: 230V, 50 - 60 Hz	
	- m1 Uax power consumption: 40W	
	- dimensions (DXWXH): 17.0 × 23.0 × 13.0 cm / 6.7 × 9.1 × 5.1 in	
	- At least one (1) year warranty.	
10	Dry Bath Incubator	
	 Microprocessor control with digital performance for precise, 	
	accurate control	
	- Unit Dimensions (W x L x H) 200 x 290 x 80mm	
	- User temperature calibration	
	- Molded aluminum alloy chamber	
	- Temperature Control Range 5°C above ambient to 150°	
	C	
	- At least one (1) year warranty.	
11	Freezer (-20 °C)	
	- minimum storage temperature: -20 ~ -25°C	
	- max capacity: 350 L	
	- External dimensions (width * depth * height) mm: 810*735*1960	
	 Internal dimensions (width * depth * height) mm: 	
	(650*570*627)*2	
	- with over-temperature alarm function	
	- At least one (1) year warranty.	
12	Distillator	
	- bench top	
	- output: ASTM Type 1 water	
	At least one (1) year warranty.	
	LOT 3 Supply and Delivery of Technical and Musical	
L	Equipment	
1	Bass Amplifier	
	165 watts; solid state bass amp; onboard	
	compressor/iimiter; / band graphic EQ	

2	Keyboard Amplifier	
	*for all instruments (bass. G not advisable); 150 watts; 5	
	channels	
3	Professional CPR Mannequin Family Pack	
3	*One (1) Adult Medium Skin Mannequin (with CPR	
	Monitor);	
	One (1) Child Medium Skin Mannequin (with CPR Monitor);	
	One (1) Infant Medium Skin Mannequin (with CPR Monitor)	
	*with 10 Adult Face-Shield Lung Bags, 10 Child Face-	
	Shield Lung Bags and 10 Infant Face-Shield Lung Bags, an	
	Instruction Sheet and a nylon carrying case	
	*All mannequins come with Light Indicator and Audible	
	Clicker	
4	BWF Approved PVC Floor Carpet Synthetic Badminton	
	Shuttle Court Flooring Mat	
	Roll Size: 15m × 1.8m	
	Thickness:4 5mm 4 8mm 5 0mm 5 5mm 7 0mm	
	Thickness of wear-resisting layer: 1.0mm-1.8mm	
	Color: green/blue	
	Surface Pattern: Crystal sand	
	Surface Treatment: High super-durable anti-slip wear layer	
	Layers: 7.0mm/5.5mm/5.0mm/4.8mm/4.5mm thick high-	
	durable anti-slip crystal-surfaced layer	
	Compound high-strength polyester mesh stable layer	
	Compound glass fiber mesh anti-shrink layer	
5	Folding Table Tennis Table 15mm For Indoor Use	
C .		
	Field of use: IndoorAssembled: Semi assembled, approx	
	15 minutes to be ready.	
	Table top: 15 mm	
	Net set: Included Net weight: 66 kg	
	Gross weight: 70 kg	
	Frame size: 15 x 30 mm	
	Thickness 1.2mm	
	Leg Size : Square Tubular Profile 20 x 30 mm & 30 x 30	
	Heavy Duty Wheels : Size 50mm	
	Diameter All 8 maneuverable wheels (4 with brakes)	
6	Drone quadcopter with 24-48mm optical zoom camera	
	video UAV 12MP 1/2. 3 Cinos sensor (US version)	
	Features & details	
	• 1/2.3-inch 12MP sensor with up to 4x zoom,	
	including a 2x optical zoom (24-48 mm)	
	• Up to 31 minutes flight time, 44 mph max speed,	
	905G takeoff weight, 3-axis gimbal for steady	
	128 GB	
	Functions include ActiveTrack 2. 0, Omnidirectional	
	Obstacle Sensing, Hyperlapse, Low-Noise Design,	
1	Adjustable Aperture, HDR Photos, Dolly Zoom	

	135 minutes of battery life on a full charge.	
7	3-Axis Gimbal Stabilizer for DSLR & Mirrorless	
	Cameras	
	Rotatable Angle : Tilt 230° ; Roll 360° (Unlimited); Pan 360° (Unlimited)	
	Working Modes : Panning Mode(HF); Follow Mode(TF); Lock Mode(LK); All Follow Mode (AF)	
	Controllable Range : Tilt +175° to -55°; Roll: ±30° (when controlled by Horizontal Adjustment Button) 360° (when parallel to the ground, and works in full follow mode, it could be controlled to rotate 360° by joystick)Pan: 360° (unlimited)	
	Usage Time : 12 hours (When camera is balanced with gimbal)	
	Charging Time : ≥5 hours by the charger provided and the adapter 5V/3A.	
8	D'Jembe: (African Percussion)	
	- 12" Skin head - Thai mango wood shell - Tera cotta finish - non-stretch adjustable rope for tuning	
	Service and Warranty	
	 1-year warranty on parts and services after commissioning and acceptance and 1-year free calibration and preventive maintenance on site. Complete with necessary installation accessories for immediate operation and start-up 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. Deliver, uncrate, set into place, make all the final connections and start-up of the instrument Calibration certificate traceable to international standards. 	
	Training	
	- 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.	
	Documentation	
	 Authenticated training certificate of Service Personnel from the manufacturer related to the 	

installation, equipment maintenance, and	
troubleshooting.	
 1 original copy and 1 photocopy of operating and 	
service manuals in English.	
 Must provide the necessary information and test 	
procedures required to prove that the instrument	
meets the specified requirements.	
 Test data and calibration certificates of the 	
calibrating instruments used must be attached. A	
certificate of gualification must also be issued.	
- Brochure with pictures must be provided during bid	
openina.	
1 0	
Testing and Acceptance	
- 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.	
- 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 reserves the right to get	
the equipment replaced by the Supplier at no extra	
cost to PSHS-ZRC. Succeeding conduct of the	
validation/gualification shall also be the	
responsibility and at the cost of the Supplier.	

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- Image: 1
 (a)
 Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

 Image: 1
 Image: 1
 Image: 1

 Image: 1
 Image: 1
- (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;

Original copy of Notarized Bid Securing Declaration; and

- (i) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or aftersales/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;

<u>or</u>

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

II. FINANCIAL COMPONENT ENVELOPE

- a) Original of duly signed and accomplished Financial Bid Form; <u>and</u>
- (b) Original of duly signed and accomplished Price Schedule(s).

