

PHILIPPINE BIDDING DOCUMENTS

Early Procurement Activity (EPA) for the Procurement of Laboratory Equipment – 16 Lots

Project Identification No. PB-009-2024-EPA

Government of the Republic of the Philippines

Sixth Edition
July 2020



Republic of the Philippines
Department of Agriculture
PHILIPPINE FIBER INDUSTRY DEVELOPMENT AUTHORITY

Preface

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

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

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

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

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

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

Table of Contents

Glossary of Acronyms, Terms, and Abbreviations	4
Section I. Invitation to Bid.....	7
Section II. Instructions to Bidders.....	13
1. Scope of Bid	14
2. Funding Information.....	14
3. Bidding Requirements	14
4. Corrupt, Fraudulent, Collusive, and Coercive Practices.....	14
5. Eligible Bidders.....	14
6. Origin of Goods	15
7. Subcontracts	15
8. Pre-Bid Conference	15
9. Clarification and Amendment of Bidding Documents	16
10. Documents comprising the Bid: Eligibility and Technical Components	16
11. Documents comprising the Bid: Financial Component	16
12. Bid Prices	16
13. Bid and Payment Currencies	17
14. Bid Security	17
15. Sealing and Marking of Bids	17
16. Deadline for Submission of Bids	18
17. Opening and Preliminary Examination of Bids	18
18. Domestic Preference	18
19. Detailed Evaluation and Comparison of Bids	18
20. Post-Qualification	19
21. Signing of the Contract	19
Section III. Bid Data Sheet	20
Section IV. General Conditions of Contract	24
1. Scope of Contract	25
2. Advance Payment and Terms of Payment	25
3. Performance Security	25
4. Inspection and Tests	25
5. Warranty	26
6. Liability of the Supplier	26
Section V. Special Conditions of Contract	27
Section VI. Schedule of Requirements	32
Section VII. Technical Specifications	34
Section VIII. Checklist of Technical and Financial Documents	82

Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

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

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

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

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

GFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

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

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

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid

Notes on the Invitation to Bid

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

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

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

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



Early Procurement Activity (EPA) for the Procurement of Laboratory Equipment – 16 Lots Project Identification No. PB-009-2024-EPA

- The Philippine Fiber Industry Development Authority (PhilFIDA), through the FY 2025 National Expenditure Program (NEP) intends to apply the sum of Fifty-Nine Million Three Hundred Seventy Thousand Pesos (PhP59,370,000.00) being the ABC to payments under the contract for the “Early Procurement Activity (EPA) for the Procurement of Laboratory Equipment – 16 Lots” for CY 2025. Bids received in excess of the ABC shall be automatically rejected at bid opening. The award of the contract to the effectivity of the General Appropriations Act (GAA) for FY 2025.

The Philippine Fiber Industry Development Authority through the FY 2025 National Expenditure Program (NEP) intends to apply the sum of:

Lot No.	Particulars	Amount (PhP)
1	Supply and Delivery of Branded and Brand New Common Laboratory Equipment – 7 Items	1,890,000.00
2	Supply, Delivery and Installation of Branded and Brand New Pulp and Paper Testing Equipment – 5 Items	13,110,000.00
3	Supply and Delivery of Branded and Brand New Digital Buret	120,000.00
4	Supply and Delivery of Branded and Brand New Flammable Chemical Storage Cabinets and Strong Acid/Alkali Storage Cabinets	400,000.00
5	Supply and Delivery of Branded and Brand New Sample Cutter	500,000.00
6	Supply and Delivery of Branded and Brand New Particle Sieve Shaker	800,000.00
7	Supply and Delivery of Branded and Brand New Canadian Standard Freeness Tester	1,200,000.00
8	Supply and Delivery of Branded and Brand New Standard Pulp Disintegrator	1,500,000.00
9	Supply and Delivery of Branded and Brand New Mobile Chemical Adsorption/ Decontamination Unit	2,000,000.00
10	Supply, Delivery and Installation of Branded and Brand New Compound Projection Microscope	2,000,000.00
11	Supply, Delivery and Installation of Branded and Brand New Fully Automated Fiber Analyzer for Crude Fibers	2,400,000.00
12	Supply, Delivery and Installation of Branded and Brand New Somerville Fractionator	2,750,000.00

13	Supply and Delivery of Branded and Brand New Fourier Transform Infrared Spectrometer (FTIR)	3,000,000.00
14	Supply, Delivery and Installation of Branded and Brand New Fully Automated Soxhlet Extraction System	3,200,000.00
15	Supply, Delivery and Installation of Branded and Brand New Universal Testing Machine	11,000,000.00
16	Supply, Delivery and Installation of Branded and Brand New Fiber Image Analyzer	13,500,000.00
TOTAL ABC		59,370,000.00

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

The PhilFIDA is conducting this procurement through the Early Procurement Activity (EPA) for FY 2025 to ensure the timely delivery of goods, implementation of infrastructure projects and rendition of consultancy services, consistent with the GPPB Resolution No. 14-2029 dated July 17, 2019. EPA shall refer to the conduct of procurement activities, from posting of the procurement opportunity, if required, until recommendation of the Bids and Awards Committee (BAC) to the HoPE as to the award of the contract for goods to be delivered, infrastructure projects to be implemented and consulting services to be rendered in the following fiscal year (i.e. FY 2025, pending approval of their respective funding sources.

The bidders, therefore, are herewith informed of the following:

- a. Interested bidders are invited/requested to submit their bid proposals based on indicative budget (i.e. subject to final approval) through this invitation to Bid, together with the bidding documents;
 - b. The PhilFIDA will evaluate the bid proposal and determine the winning bidder. The financial bid proposal of the winning bidder will be the contract price/amount which is considered fixed price. However, the Notice of Award (NOA) will only be issued upon the approval of the budget.
 - c. Would there be a delay in the award as affected by the possible delay in the budget approval, the bid validity as specified in the bidding documents (which is a maximum of 120 calendar days), the winning bidder may be requested to extend the bid validity, the bid submitted by said bidder will be rejected.
2. The PhilFIDA now invites bids for the above Early Procurement Project. Delivery of the Goods is required by shall be in accordance with the Delivery Schedule under Section VI. Schedule of Requirements. 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.

- a. 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 PhilFIDA and inspect the Bidding Documents at the address given below during office hours from 8:00 A.M. to 5:00 P.M.
 5. A complete set of Bidding Documents can be accessed online starting November 6, 2024 (Wednesday) and the hard copy can be purchased by interested Bidders starting November 8, 2024 (Friday) from the given address and website(s) 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:

Lot No.	Particulars	Bid Docs (PhP)
1	Supply and Delivery of Branded and Brand New Common Laboratory Equipment – 7 Items	1,890.00
2	Supply, Delivery and Installation of Branded and Brand New Pulp and Paper Testing Equipment – 5 Items	13,110.00
3	Supply and Delivery of Branded and Brand New Digital Buret	120.00
4	Supply and Delivery of Branded and Brand New Flammable Chemical Storage Cabinets and Strong Acid/Alkali Storage Cabinets	400.00
5	Supply and Delivery of Branded and Brand New Sample Cutter	500.00
6	Supply and Delivery of Branded and Brand New Particle Sieve Shaker	800.00
7	Supply and Delivery of Branded and Brand New Canadian Standard Freeness Tester	1,200.00
8	Supply and Delivery of Branded and Brand New Standard Pulp Disintegrator	1,500.00
9	Supply, Delivery and Installation of Branded and Brand New Mobile Chemical Adsorption/ Decontamination Unit	2,000.00
10	Supply, Delivery and Installation of Branded and Brand New Compound Projection Microscope	2,000.00
11	Supply, Delivery and Installation of Branded and Brand New Fully Automated Fiber Analyzer for Crude Fibers	2,400.00
12	Supply and Delivery of Branded and Brand New Somerville Fractionator	2,750.00
13	Supply and Delivery of Branded and Brand New Fourier Transform Infrared Spectrometer (FTIR)	3,000.00

14	Supply, Delivery and Installation of Branded and Brand New Fully Automated Soxhlet Extraction System	3,200.00
15	Supply, Delivery and Installation of Branded and Brand New Universal Testing Machine	11,000.00
16	Supply, Delivery and Installation of Branded and Brand New Fiber Image Analyzer	13,500.00
TOTAL BID DOCS		59,370.00

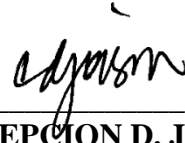
6. The PhilFIDA will hold a Pre-Bid Conference¹ on November 18, 2024, 9:30 A.M. (Monday) through video conferencing via Microsoft Office 365 Teams which shall be open to prospective bidders. Bidder/s should submit a valid email address one (1) day before the Pre-Bid Conference.
7. Bids must be duly received by the BAC Secretariat through manual submission at PhilFIDA's Fiber Processing and Utilization Laboratory: BAI Compound, Visayas Ave., Quezon City on or before December 2, 2024 (Monday) at 9:00 A.M. Late bids shall not be accepted.
8. Bid opening shall be on December 2, 2024 (Monday) at 9:30 A.M. at PhilFIDA Fiber Processing & Utilization Laboratory: BAI Compound, Visayas Avenue, Quezon City to be streamed live via MS Office 365 Teams, the link of which is available by request. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity. Bidders may opt to attend virtually.
9. The Bidders shall drop three (3) copies of their duly accomplished eligibility requirement, technical and financial proposals in two (2) separate sealed envelopes in the bid box located at PhilFIDA's Fiber Processing and Utilization Laboratory: BAI Compound, Visayas Avenue, Quezon City. Interested bidders are requested to contact the BAC Secretariat at Cellular Phone Nos.: 09189402419 and 09983243606 before submitting the bidding documents.
10. The PhilFIDA 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:

PhilFIDA BAC Secretariat
Philippine Fiber Industry Development Authority
Fiber Processing & Utilization Laboratory
BAI Compound, Visayas Avenue, Quezon City
Tel Nos.: 8531-7854; Cellular Phone Nos.
Email Address: bac@philfida.da.gov.ph

¹ May be deleted in case the ABC is less than One Million Pesos (PhP1,000,000) where the Procuring Entity may not hold a Pre-Bid Conference.

12. You may visit the following websites:
For downloading of Bidding Documents:
www.philgeps.gov.ph and/or www.philfida.da.gov.ph

November 5, 2024



CONCEPCION D. JOCSON
BAC Chairperson

Section II. Instructions to Bidders

Notes on the Instructions to Bidders

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

1. Scope of Bid

The Procuring Entity, Philippine Fiber Industry Development Authority wishes to receive Bids for the “Early Procurement Activity for the Procurement of Laboratory Equipment – 16 Lots” with Project Identification No. PB-009-2024-EPA.

The Procurement Project (referred to herein as “Project”) is composed of Sixteen (16) 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 2025 GAA in the amount of Fifty-Nine Million Three Hundred Seventy Thousand Pesos (PhP59,370,000.00) inclusive of VAT.

2.2. source of funding is the NGA, the FY 2025 National Expenditure Program (NEP).

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:
 - c. 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 following requirements: [*Select either failure or monopoly of bidding based on market research conducted*]
 - i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%) in the case of non-expendable supplies and services or twenty-five percent (25%) in the case of expendable supplies*] of the ABC for this Project; and
 - ii. 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 Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that Subcontracting is not allowed.

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing via MS Teams as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

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

11. Documents comprising the Bid: Financial Component

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

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:

- i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;
 - iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in the **BDS**.
- 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 the **BDS**.

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 April 1, 2025. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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.

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

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

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 Entity's 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. 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.

19.3. The Project shall be awarded as follows:

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

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

20. Post-Qualification

20.2. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, *{[Include if Framework Agreement will be used:]}* or in the case of multi-year Framework Agreement, that it is one of the eligible bidders who have submitted bids that are found to be technically and financially compliant, }the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**. *{[Include if Framework Agreement will be used:]}* For every mini-competition in Framework Agreement, the LCB shall likewise submit the required documents for final Post Qualification. }

21. Signing of the Contract

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

Section III. Bid Data Sheet

Notes on the Bid Data Sheet

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

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

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

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

Bid Data Sheet

ITB Clause				
5.3	For this purpose, contracts similar to the Project shall be: <ul style="list-style-type: none"> a. Laboratory Equipment, Tools and Supplies b. completed within five (5) years prior to the deadline for the submission and receipt of bids. 			
7.1	Subcontracting is not allowed.			
12	The price of the Goods shall be quoted DDP Fiber Processing and Utilization Laboratory, BAI Compound, Visayas Ave., Quezon City or the applicable International Commercial Terms (INCOTERMS) for this Project.			
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts:			
	Bid Security	ABC per Lot (PhP)	If bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit (2% of the ABC)	If bid security is in Surety Bond accompanied with a certification from the Insurance Commission that insurance company is authorized to insure such security (5% of the ABC)
	Lot 1	1,890,000.00	37,800.00	94,500.00
	Lot 2	13,110,000.00	262,200.00	655,500.00
	Lot 3	120,000.00	2,400.00	6,000.00
	Lot 4	400,000.00	8,000.00	20,000.00
	Lot 5	500,000.00	10,000.00	25,000.00
	Lot 6	800,000.00	16,000.00	40,000.00
	Lot 7	1,200,000.00	24,000.00	60,000.00
	Lot 8	1,500,000.00	30,000.00	75,000.00
	Lot 9	2,000,000.00	40,000.00	100,000.00
	Lot 10	2,000,000.00	40,000.00	100,000.00
	Lot 11	2,400,000.00	48,000.00	120,000.00
	Lot 12	2,750,000.00	55,000.00	137,500.00
	Lot 13	3,000,000.00	60,000.00	150,000.00
	Lot 14	3,200,000.00	64,000.00	160,000.00
	Lot 15	11,000,000.00	220,000.00	550,000.00
	Lot 16	13,500,000.00	270,000.00	675,000.00
	TOTAL	59,370,000.00	1,187,400.00	2,968,500.00
19.3	<i>[In case the Project will be awarded by lot, list the grouping of lots by specifying the group title, items, and the quantity for every identified lot, and the corresponding ABC for each lot.]</i>			

Lot No.	Particulars	Quantity	Amount (PhP)
1	Supply and Delivery of Branded and Brand New Common Laboratory Equipment – 7 Items <ul style="list-style-type: none"> • Digital Stirrer – 1 unit (PhP100,000.00) • pH Meter – 1 unit (PhP100,000.00) • Top Loading Balance – 1 unit (PhP150,000.00) • Analytical Balance – 1 unit (PhP180,000.00) • Moisture Analyzer – 1 unit (PhP300,000.00) • Hotplate – 2 units (PhP360,000.00) • Water Bath – 2 units (PhP700,000.00) 	9	1,890,000.00
2	Supply, Delivery and Installation of Branded and Brand New Pulp and Paper Testing Equipment – 5 Items <ul style="list-style-type: none"> • Micrometer – 1 unit (PhP1,400,000.00) • Tearing Tester – 1 unit (PhP2,200,000.00) • Densometer – 1 unit (PhP2,300,000.00) • Bursting Strength Tester – 1 unit (PhP2,700,000.00) • Paper Spectrophotometer – 1 unit (PhP4,510,000.00) 	5	13,110,000.00
3	Supply and Delivery of Branded and Brand New Digital Buret	2	120,000.00
4	Supply and Delivery of Branded and Brand New Flammable Chemical Storage Cabinets and Strong Acid/Alkali Storage Cabinets <ul style="list-style-type: none"> • Flammable Chemical Storage Cabinets – 2 units • Strong Acid/Alkali Storage Cabinets – 2 units 	4	400,000.00
5	Supply and Delivery of Branded and Brand New Sample Cutter	1	500,000.00
6	Supply and Delivery of Branded and Brand New Particle Sieve Shaker	1	800,000.00

	7	Supply and Delivery of Branded and Brand New Canadian Standard Freeness Tester	1	1,200,000.00
	8	Supply and Delivery of Branded and Brand New Standard Pulp Disintegrator	1	1,500,000.00
	9	Supply and Delivery of Branded and Brand New Mobile Chemical Adsorption/ Decontamination Unit	2	2,000,000.00
	10	Supply, Delivery and Installation of Branded and Brand New Compound Projection Microscope	1	2,000,000.00
	11	Supply, Delivery and Installation of Branded and Brand New Fully Automated Fiber Analyzer for Crude Fibers	1	2,400,000.00
	12	Supply, Delivery and Installation of Branded and Brand New Somerville Fractionator	1	2,750,000.00
	13	Supply and Delivery of Branded and Brand New Fourier Transform Infrared Spectrometer (FTIR)	1	3,000,000.00
	14	Supply, Delivery and Installation of Branded and Brand New Fully Automated Soxhlet Extraction System	1	3,200,000.00
	15	Supply, Delivery and Installation of Branded and Brand New Universal Testing Machine	1	11,000,000.00
	16	Supply, Delivery and Installation of Branded and Brand New Fiber Image Analyzer	1	13,500,000.00
	TOTAL ABC			59,370,000.00
20.2	Not Applicable			
21.2	Not Applicable			

Section IV. General Conditions of Contract

Notes on the General Conditions of Contract

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

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

Any complementary information, which may be needed, shall be introduced only through the Special Conditions of Contract.

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than 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. *{Include if Framework Agreement will be used:} In the case of Framework Agreement, the Bidder may opt to furnish the performance security or a Performance Securing Declaration as defined under the Guidelines on the Use of Framework Agreement.*

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 VII (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

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

5. Warranty

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

6. Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Notes on the Special Conditions of Contract

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

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

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

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

Special Conditions of Contract

GCC Clause	
	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p><i>[For Goods supplied from abroad, state:]</i> “The delivery terms applicable to the Contract are DDP delivered Fiber Processing and Utilization Laboratory, BAI Compound, Visayas Ave., Quezon City. In accordance with INCOTERMS.”</p> <p><i>[For Goods supplied from within the Philippines, state:]</i> “The delivery terms applicable to this Contract are delivered Fiber Processing and Utilization Laboratory, BAI Compound, Visayas Ave., Quezon City. 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 Ms. Cristina A. Panganiban.</p> <p>Incidental Services –</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> <p><i>Select appropriate requirements and delete the rest.</i></p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
	<ol style="list-style-type: none"> 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.

- f. On-site installation and any incidental services/expenses for the installation of the unit should be at the expense of the supplier.
[Specify additional incidental service requirements, as needed.]

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:

1. 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
2. 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 *[indicate here the time period specified. If not used indicate a time period of three times the warranty period]*.

Spare parts or components shall be supplied as promptly as possible, but in any case, within three (3) months of placing the order.

Packaging –

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>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>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>

	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>
2.2	Not Applicable
4	The inspections and tests that will be conducted are: Functional Tests

Section VI. Schedule of Requirements

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

Item No.	Description	Quantity	Total	Delivered Weeks/Months
1	Supply and Delivery of Branded and Brand New Common Laboratory Equipment – 7 Items <ul style="list-style-type: none"> • Digital Stirrer – 1 unit • pH Meter – 1 unit • Top Loading Balance – 1 unit • Analytical Balance – 1 unit • Moisture Analyzer – 1 unit • Hotplate – 2 units • Water Bath – 2 units 	9	9	Ninety (90) calendar days upon receipt of the NTP
2	Supply, Delivery and Installation of Branded and Brand New Pulp and Paper Testing Equipment – 5 Items <ul style="list-style-type: none"> • Micrometer – 1 unit (PhP1,400,000.00) • Tearing Tester – 1 unit (PhP2,200,000.00) • Densometer – 1 unit (PhP2,300,000.00) • Bursting Strength Tester – 1 unit (PhP2,700,000.00) • Paper Spectrophotometer – 1 unit (PhP4,510,000.00) 	5	5	Ninety (90) calendar days upon receipt of the NTP
3	Supply and Delivery of Branded and Brand New Digital Buret	2	2	Ninety (90) calendar days upon receipt of the NTP
4	Supply and Delivery of Branded and Brand New Flammable Chemical Storage Cabinets and Strong Acid/Alkali Storage Cabinets <ul style="list-style-type: none"> • Flammable Chemical Storage Cabinets – 2 units • Strong Acid/Alkali Storage Cabinets – 2 units 	4	4	Ninety (90) calendar days upon receipt of the NTP
5	Supply and Delivery of Branded and Brand New Sample Cutter	1	1	Ninety (90) calendar days upon receipt of the NTP

6	Supply and Delivery of Branded and Brand New Particle Sieve Shaker	1	1	Ninety (90) calendar days upon receipt of the NTP
7	Supply and Delivery of Branded and Brand New Canadian Standard Freeness Tester	1	1	Ninety (90) calendar days upon receipt of the NTP
8	Supply and Delivery of Branded and Brand New Standard Pulp Disintegrator	1	1	Ninety (90) calendar days upon receipt of the NTP
9	Supply, Delivery and Installation of Branded and Brand New Mobile Chemical Adsorption/ Decontamination Unit	2	2	Ninety (90) calendar days upon receipt of the NTP
10	Supply, Delivery and Installation of Branded and Brand New Compound Projection Microscope	1	1	Ninety (90) calendar days upon receipt of the NTP
11	Supply, Delivery and Installation of Branded and Brand New Fully Automated Fiber Analyzer for Crude Fibers	1	1	Ninety (90) calendar days upon receipt of the NTP
12	Supply, Delivery and Installation of Branded and Brand New Somerville Fractionator	1	1	Ninety (90) calendar days upon receipt of the NTP
13	Supply and Delivery of Branded and Brand New Fourier Transform Infrared Spectrophotometer (FTIR)	1	1	Ninety (90) calendar days upon receipt of the NTP
14	Supply, Delivery and Installation of Branded and Brand New Fully Automated Soxhlet Extraction System	1	1	Ninety (90) calendar days upon receipt of the NTP
15	Supply, Delivery and Installation of Branded and Brand New Universal Testing Machine	1	1	Ninety (90) calendar days upon receipt of the NTP
16	Supply, Delivery and Installation of Branded and Brand New Fiber Image Analyzer	1	1	Ninety (90) calendar days upon receipt of the NTP

Signature Over Printed Name

Position/Designation

Name of Company

Section VII. Technical Specifications

Notes for Preparing the Technical Specifications

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

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

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

Sample Clause: Equivalency of Standards and Codes

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

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

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

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

In case of Renewal of Regular and Recurring Services, the Procuring Entity must indicate here the technical requirements for the service provider, which must include the set criteria in the conduct of its performance evaluation.

Technical Specifications

Item	Specification	Statement of Compliance
		<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
	Early Procurement Activity (EPA) for the Procurement of Laboratory Equipment – 16 Lots	
Lot 1	Supply and Delivery of Branded and Brand New Common Laboratory Equipment – 7 Items	
	1. <u>Digital Stirring Hotplate</u> (1 unit)	
	<ul style="list-style-type: none"> • Technical Specifications: 	

	◦ Size: at least 10.25 x 10.25 inches	
	◦ Shape: Square	
	◦ Display: LED (Easy-to-read)	
	◦ Plug Type: EU, UK, CHN/AUS	
	◦ Flask Size: 250mL to 6 Liters	
	◦ Stirring Range: 50 to 1500 rpm	
	◦ Max Surface Temp (°C): Ambient to 400°C	
	◦ Top Plate Material: Ceramic or Aluminum	
	◦ Compliance and Certification: CE Certification or other relevant safety and quality certifications	
	◦ Dimensions (W x D x H): at least 11.3 x 17.2 x 4 inches (28.8 x 43.8 x 10.5 cm)	
	◦ Electrical Requirements: 230 V, 50/60 Hz	
	• Features:	
	◦ Top Plate: Available in ceramic or aluminum.	
	◦ LED Display: Shows heating, stirring, and time settings.	
	◦ Raised Display: Protects electronics from spills.	
	◦ Preset Functionality: Save up to three steps for temperature, speed, and timer.	
	◦ Slow-Speed Stirring: Ensures precise control.	
	◦ Magnetic Coupling: Strong for stable stirring, even with viscous solutions.	
	• Note:	

	<ul style="list-style-type: none"> ◦ The manufacturer must be existing in the Philippine Market at least five (5) years 	
	<ul style="list-style-type: none"> ◦ With manufacturer's authorization 	
	<ul style="list-style-type: none"> • On-site Training: Local training for basic operation, troubleshooting, and maintenance. 	
	<ul style="list-style-type: none"> • Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit. 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days upon receipt of NTP 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	2. <u>ph Meter (1 unit)</u>	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ pH Range: -1.99 to 19.99 	
	<ul style="list-style-type: none"> ◦ Resolution: 0.01 	
	<ul style="list-style-type: none"> ◦ Accuracy: ±0.005 	
	<ul style="list-style-type: none"> ◦ mV Range: -1999.9 to 1999.9 	
	<ul style="list-style-type: none"> ◦ Resolution: 0.1 	
	<ul style="list-style-type: none"> ◦ Accuracy: ±0.3 mV (±0.05% if < -400 mV or > +400 mV) 	
	<ul style="list-style-type: none"> ◦ Temperature Range: -5.0°C to 105.0°C 	
	<ul style="list-style-type: none"> ◦ Resolution: 0.1°C 	
	<ul style="list-style-type: none"> ◦ Accuracy: ±0.2°C 	
	<ul style="list-style-type: none"> • <u>Calibration:</u> 	
	<ul style="list-style-type: none"> ◦ Up to 3 buffers 	

	◦ Auto buffer recognition: 16 buffers (3 groups)	
	◦ 2, 4, 7, 10, 12	
	◦ 1, 3, 6, 8, 10, 13	
	◦ 1.68, 4.01, 6.86, 9.18, 12.46	
	◦ Automatic electrode slope correction: 90% - 105%	
	• Temperature Compensation: Auto/Manual (ATC/MTC)	
	• Features:	
	◦ TFT color touch screen	
	◦ Auto/Manual Temperature	
	◦ Compensation (ATC/MTC)	
	◦ Automatic calibration with up to 3 buffers and automatic buffer recognition	
	◦ Calibration reminder with automatic data saving	
	◦ 500 sets of data storage	
	◦ Electrode serial number storage for 100% traceability (only for PB-30 model)	
	◦ User password protection	
	◦ Multi-interface data output	
	◦ GLP-compliant printing	
	• Note:	
	◦ The manufacturer must be existing in the Philippine Market at least five (5) years	
	◦ With manufacturer's authorization	
	• On-site Training: Local training for basic operation, troubleshooting, and maintenance.	

	<ul style="list-style-type: none"> • Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit. 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	3. <u>Top Load Balance (1 unit)</u>	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Capacity: Max Capacity: 4000g or better 	
	<ul style="list-style-type: none"> ◦ Material: 	
	<ul style="list-style-type: none"> - Pan: made from non-corrosive materials 	
	<ul style="list-style-type: none"> - Housing: Durable plastic or metal 	
	<ul style="list-style-type: none"> ◦ Display: 0.01g 	
	<ul style="list-style-type: none"> ◦ Weighing Units: g, kg, oz and etc. 	
	<ul style="list-style-type: none"> ◦ Tare Function: With tare function 	
	<ul style="list-style-type: none"> ◦ Calibration: With self-checking and adjustment features 	
	<ul style="list-style-type: none"> ◦ Display: LCD/LED with backlight for easy reading 	
	<ul style="list-style-type: none"> ◦ Power Supply: AC 240V, 50/60 Hz 	
	<ul style="list-style-type: none"> • Compliance and Certification: CE Certification or other relevant safety and quality certifications 	
	<ul style="list-style-type: none"> • Inclusions: 	
	<ul style="list-style-type: none"> ◦ with protective cover 	

	<ul style="list-style-type: none"> ◦ Two (2) years warranty on parts and labor 	
	<ul style="list-style-type: none"> ◦ Two (2) years preventive maintenance and calibration of the unit during the warranty period 	
	<ul style="list-style-type: none"> ◦ On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier 	
	<ul style="list-style-type: none"> • Note: 	
	<ul style="list-style-type: none"> ◦ External provider must be existing in the Philippine Market at least five (5) years 	
	<ul style="list-style-type: none"> ◦ With authorization from the manufacturer 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	4. <u>Analytical Balance (1 unit)</u>	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Weighing Capacity: 220 g 	
	<ul style="list-style-type: none"> ◦ Readability: 0.0001 g 	
	<ul style="list-style-type: none"> ◦ Pan Size: 90 mm diameter 	
	<ul style="list-style-type: none"> ◦ Repeatability: 0.0001 g 	
	<ul style="list-style-type: none"> ◦ Linearity: 0.0002 g 	
	<ul style="list-style-type: none"> ◦ Response Time: 2.5 sec 	
	<ul style="list-style-type: none"> ◦ Calibration: Internal 	
	<ul style="list-style-type: none"> ◦ Power Supply: 230 V, 60 Hz 	
	<ul style="list-style-type: none"> • Features: 	
	<ul style="list-style-type: none"> ◦ Multiple built-in applications: percent 	

	weighing, animal weighing, unit conversion, and counting	
	◦ Exceptional monolithic weigh cell	
	◦ Standard internal motorized calibration	
	◦ High-contrast, backlit display for clear readouts	
	◦ Optional connection to a printer	
	◦ User-friendly navigation with plain-language prompts and cursor keys	
	◦ Convenient level indicator for easy leveling	
	• Note:	
	◦ The manufacturer must be existing in the Philippine Market at least five (5) years	
	◦ With manufacturer's authorization	
	• On-site Training: Local training for basic operation, trouble shooting, and maintenance	
	• Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
	5. <u>Moisture Analyzer (1 unit)</u>	
	• Technical Specifications:	
	◦ Heat source: Infrared lamp	
	◦ Depth: 400 mm	
	◦ Max. Weighing Capacity: 70 g	

	◦ Weighing Accuracy: 1 mg	
	◦ Moisture Range: 4 – 99%	
	◦ Temperature range: 40°C – 200°C (adjustable by 1°C increments).	
	• Compliance: ISO/GLP compliant FDA/HACCP Regulations compliant	
	• Features:	
	◦ High-performance heating for fast, uniform results.	
	◦ Intuitive touch-screen interface with user-friendly menu.	
	◦ Three drying modes with auto, semi-auto, and manual shutoff options.	
	◦ Compact, durable design.	
	• Note:	
	◦ The manufacturer must be existing in the Philippine Market at least five (5) years	
	◦ With manufacturer’s authorization	
	• On-site Training: Local training for basic operation, troubleshooting, and maintenance	
	• Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit.	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
	6. <u>Hotplate (2 units)</u>	

	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Top Plate Material: Aluminum 	
	<ul style="list-style-type: none"> ◦ Heating Surface Area: at least 12 x 24 in. 	
	<ul style="list-style-type: none"> ◦ Temperature Range: 38 to 371 °C 	
	<ul style="list-style-type: none"> ◦ Temperature Stability @ 100 °C: ±3.5°C 	
	<ul style="list-style-type: none"> ◦ Temperature Uniformity @ 100 °C: ±10.0°C 	
	<ul style="list-style-type: none"> ◦ Certifications: UL Listed 	
	<ul style="list-style-type: none"> ◦ Overall Dimensions: 34.9 x 60.9 x 15.9 cm (13.75 x 24 x 6.25 in.) 	
	<ul style="list-style-type: none"> ◦ Electrical Requirements: 240V, 50/60Hz, 3200W, 13.3A 	
	<ul style="list-style-type: none"> • Features: 	
	<ul style="list-style-type: none"> ◦ Large aluminum heating surface with thermostatic controls 	
	<ul style="list-style-type: none"> ◦ Cycle light indicates power supply 	
	<ul style="list-style-type: none"> ◦ Durable stainless-steel case for heavy loads 	
	<ul style="list-style-type: none"> ◦ Epoxy-painted for chemical resistance 	
	<ul style="list-style-type: none"> • Note: 	
	<ul style="list-style-type: none"> ◦ The manufacturer must be existing in the Philippine Market at least five (5) years 	
	<ul style="list-style-type: none"> ◦ With manufacturer's authorization 	
	<ul style="list-style-type: none"> • On-site Training: Local training for basic operation, troubleshooting, and maintenance. 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days 	

	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	7. <u>Water Bath (2 units)</u>	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Capacity: 28 L (Metric) 	
	<ul style="list-style-type: none"> ◦ Temperature Range: Ambient to 100°C 	
	<ul style="list-style-type: none"> ◦ Temperature Stability: ±0.1°C 	
	<ul style="list-style-type: none"> ◦ Temperature Uniformity: ±0.2°C 	
	<ul style="list-style-type: none"> ◦ Chamber Material: Stainless Steel 	
	<ul style="list-style-type: none"> ◦ Controller Type: Digital 	
	<ul style="list-style-type: none"> ◦ Display: Monochrome LCD 	
	<ul style="list-style-type: none"> ◦ Temperature Presets: 4 	
	<ul style="list-style-type: none"> • Inclusions: Clear Polycarbonate Gable Cover, Rubber Duck 	
	<ul style="list-style-type: none"> • Material: Epoxy Powder-coated Steel 	
	<ul style="list-style-type: none"> • Certifications: UL, CE 	
	<ul style="list-style-type: none"> • Electrical Requirements: 120/230V, 50/60 Hz, 1200 W, 9.0-10.5 A (120V) / 4.3-5.0 A (230V) 	
	<ul style="list-style-type: none"> • Note: 	
	<ul style="list-style-type: none"> ◦ The manufacturer must be existing in the Philippine Market at least five (5) years 	
	<ul style="list-style-type: none"> ◦ With manufacturer's authorization 	
	<ul style="list-style-type: none"> • On-site Training: Local training for basic operation, troubleshooting, and maintenance 	

	<ul style="list-style-type: none"> • Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit 	
	<ul style="list-style-type: none"> • Delivery period: within 90 calendar days 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 2	Supply, Delivery and Installation of Branded and Brand New Pulp and Paper Testing Equipment – 5 Items	
	1. <u>Micrometer (1 unit)</u>	
	<ul style="list-style-type: none"> • <u>Application:</u> Measures the precise and exact thickness of paper and paperboard 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ Compliant to TAPPI T411 	
	<ul style="list-style-type: none"> ◦ Machine controlled by touch screen 	
	<ul style="list-style-type: none"> ◦ Pressure foot lowering speed adjustable from 1 to 10 mm/s 	
	<ul style="list-style-type: none"> ◦ Pressure foot, when lowered, exerts a steady pressure on the specimen of 50 ± 2 kPa for 2 ± 1 s 	
	<ul style="list-style-type: none"> ◦ USB connection to printer, with printing of result and values 	
	<ul style="list-style-type: none"> ◦ Measurement values; 	
	<ul style="list-style-type: none"> ◦ Thickness in μm, mm or in. 	
	<ul style="list-style-type: none"> ◦ Measuring resolution 0.001 mm 	
	<ul style="list-style-type: none"> ◦ Statistical control; 	
	<ul style="list-style-type: none"> ◦ Mean value, standard deviation, minimum and maximum values 	

	◦ Power: 220V, 50/60 Hz	
	• Inclusions:	
	◦ 13 th gen laptop computer with printer	
	◦ UPS 1 kVA	
	◦ 2-year warranty on service	
	◦ 1 year warranty on parts	
	◦ Calibration certificate	
	◦ On site local training for basic operation, trouble shooting and maintenance of the unit	
	◦ Training at the manufacturer's site for two (2) technical personnel on the operation/use of the instrument	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
	2. <u>Tearing Tester (1 unit)</u>	
	• Application: measures the tearing resistance of paper specimen measuring 63 mm X 53 mm	
	• Technical Specifications:	
	◦ Compliant to TAPPI T414	
	◦ Automatic tester	
	◦ Intuitive touch screen with user-friendly interface, with protective surface for easy cleaning & durability	
	◦ Automatic clamping and notch cutting of test specimen	

	◦ Automatic pendulum release, catch and retraction	
	◦ Measurement:	
	◦ units in mN or gram force (gf)	
	◦ measurement values:	
	- individual tearing resistance	
	- statistics; mean value, standard deviation, maximum & minimum values	
	◦ Power: 220 V, 50/60 Hz machine	
	• Inclusions:	
	◦ Specimen cutter to ensure parallel specimens 63 ± 0.15 mm wide and at least 53 mm long, with sharp and clean edges	
	◦ UPS 1kVA and air compressor	
	◦ 2-year warranty on service	
	◦ 1 year warranty on parts	
	◦ Calibration certificate	
	◦ On site local training for basic operation, trouble shooting and maintenance of the unit	
	◦ Training at the manufacturer's site for two (2) technical personnel on the operation/use of the instrument	
	• Delivery period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
	3. <u>Densometer (1 unit)</u>	

	<ul style="list-style-type: none"> • Application: Measures the air resistance of approximately 6.45 cm² (1 in²) circular area of paper 	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Compliant to TAPPI T460 	
	<ul style="list-style-type: none"> ◦ Apparatus consists of: 	
	<ul style="list-style-type: none"> - A vertically positioned outer cylinder, 254 mm high with internal diameter of 82.6 mm 	
	<ul style="list-style-type: none"> - An inner cylinder 254 mm high with an outside diameter of 76.2 mm and an inside diameter of 74.1 mm, and has a total mass of 567 ± 0.5 g 	
	<ul style="list-style-type: none"> ◦ Measuring volume: 25, 50, 100, 200, 300 	
	<ul style="list-style-type: none"> ◦ Measuring range: 0 - 999.9 s or Gus 	
	<ul style="list-style-type: none"> ◦ Mean pressure: 1.22 kPa 	
	<ul style="list-style-type: none"> ◦ Power supply: 220V, 50/60 Hz, single phase 	
	<ul style="list-style-type: none"> • Inclusions: 	
	<ul style="list-style-type: none"> ◦ UPS 1 kVA 	
	<ul style="list-style-type: none"> ◦ 2-year warranty on service 	
	<ul style="list-style-type: none"> ◦ 1 year warranty on parts 	
	<ul style="list-style-type: none"> ◦ Calibration certificate 	
	<ul style="list-style-type: none"> ◦ On site local training for basic operation, trouble shooting and maintenance of the unit 	
	<ul style="list-style-type: none"> ◦ Training at the manufacturer's site for two (2) technical personnel on the 	

	operation/use of the instrument	
	<ul style="list-style-type: none"> • Delivery period: within 90 calendar days 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	4. <u>Bursting Strength Tester</u> <u>(1 unit)</u>	
	<ul style="list-style-type: none"> • Application: Measures the bursting strength of paper and board 	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Compliant to TAPPI T403 	
	<ul style="list-style-type: none"> ◦ Reliable and repeatable results 	
	<ul style="list-style-type: none"> ◦ With built-in sample feeder, emergency stop button and protection security cover 	
	<ul style="list-style-type: none"> ◦ Machine controlled by touch screen 	
	<ul style="list-style-type: none"> ◦ 220/110V 50/60 Hz 	
	<ul style="list-style-type: none"> • Inclusions: 	
	<ul style="list-style-type: none"> ◦ 1 pack (5 pcs) MP paper membranes 	
	<ul style="list-style-type: none"> ◦ 1 pack (5 pcs) MP board membranes 	
	<ul style="list-style-type: none"> ◦ 1 set accessories for board application 	
	<ul style="list-style-type: none"> ◦ UPS and air compressor 	
	<ul style="list-style-type: none"> ◦ 2-year warranty on service 	
	<ul style="list-style-type: none"> ◦ 1 year warranty on parts 	
	<ul style="list-style-type: none"> ◦ Calibration certificate 	
	<ul style="list-style-type: none"> ◦ On site local training for basic operation, trouble shooting and maintenance of the unit 	

	<ul style="list-style-type: none"> ◦ Training at the manufacturer's site for two (2) technical personnel on the operation/use of the instrument 	
	<ul style="list-style-type: none"> • <u>Delivery Period:</u> within 90 calendar days 	
	<ul style="list-style-type: none"> • <u>Delivery Site:</u> PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
	<p><u>5. Paper Spectrophotometer (1 unit)</u></p>	
	<ul style="list-style-type: none"> • <u>Application:</u> measures the ISO brightness, whiteness, color and opacity of paper 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ Compliant to TAPPI T525, T527 & T519 	
	<ul style="list-style-type: none"> ◦ Reflectance: d:0° diffuse illumination conforming to ISO 2469 	
	<ul style="list-style-type: none"> ◦ Spectral range: 360 - 700 or higher 	
	<ul style="list-style-type: none"> ◦ Band width: 10 nm 	
	<ul style="list-style-type: none"> ◦ Photometric range: 0-200% 	
	<ul style="list-style-type: none"> ◦ Light source: pulsed xenon lamp, D65, with one or more light sources 	
	<ul style="list-style-type: none"> ◦ Measurement time: varies depending on the type of measurement but not more than 20 sec 	
	<ul style="list-style-type: none"> ◦ Measured test area: circular with a diameter 28 ±2 mm 	
	<ul style="list-style-type: none"> ◦ Measurement geometry: d/0° 	
	<ul style="list-style-type: none"> ◦ Power: 100-240V, 50/60 Hz 	
	<ul style="list-style-type: none"> • <u>Inclusions:</u> 	
	<ul style="list-style-type: none"> ◦ color-brightness software 	

	<ul style="list-style-type: none"> ◦ 13th gen laptop computer and wireless printer with continuous ink system 	
	<ul style="list-style-type: none"> ◦ UPS 1 kVA and CTP standard paper 	
	<ul style="list-style-type: none"> ◦ 2-year warranty on service 	
	<ul style="list-style-type: none"> ◦ 1 year warranty on parts 	
	<ul style="list-style-type: none"> ◦ Calibration certificate 	
	<ul style="list-style-type: none"> ◦ On site local training for basic operation, trouble shooting and maintenance of the unit 	
	<ul style="list-style-type: none"> ◦ Training at the manufacturer's site for two (2) technical personnel on the operation/use of the instrument 	
	<ul style="list-style-type: none"> • <u>Delivery Period:</u> within 90 calendar days 	
	<ul style="list-style-type: none"> • <u>Delivery Site:</u> PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 3	Supply and Delivery of Branded and Brand New Digital Buret	
	<ul style="list-style-type: none"> • 2 units 	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Volume Range: 0.1 - 99.9 mL 	
	<ul style="list-style-type: none"> ◦ Max Piston Lift: 10 mL 	
	<ul style="list-style-type: none"> ◦ Resolution: 10 µL 	
	<ul style="list-style-type: none"> ◦ Volume Accuracy: R = 0.2%, CV = 0.07% 	
	<ul style="list-style-type: none"> ◦ Velocity: 16 stages 	
	<ul style="list-style-type: none"> ◦ Quality Control: DIN EN ISO 8655 	
	<ul style="list-style-type: none"> ◦ Controls: External control for stirrer and burette program 	
	<ul style="list-style-type: none"> ◦ Features: 	

	- High-quality motor for precision and accuracy	
	- Electronic control reduces repetitive strain injuries	
	- Remote-control panel for hassle-free operation	
	- Built-in magnetic stirrer support	
	◦ Note:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	◦ On-site Training: Local training for basic operation, troubleshooting, and maintenance.	
	◦ Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit.	
	• Delivery Period: within 90 calendar days upon receipt of NTP	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 4	Supply and Delivery of Flammable Chemical Storage Cabinet and Strong Acid/Alkali Storage Cabinet	
	• Flammable Chemical Storage Cabinet – 2 units	
	• Strong Acid/Alkali Storage Cabinet – 2 units	
	• Technical Specifications:	

	◦ <u>Flammable Chemical Storage Cabinet</u>	
	- Capacity: 90 gallons / 340L	
	- Material: Double-layer anti-fire cold-rolled steel	
	- Shelves: 2 adjustable	
	- Door: Double/manual	
	- Dimensions (WDH): 1090 x 860 x 1650 mm	
	◦ <u>Strong Acid/Alkali Cabinet:</u>	
	- Capacity: 60 gallons / 227L	
	- Material: Polypropylene (PP) anti-corrosive	
	- Shelves: 2 adjustable	
	- Door: Double/manual	
	- Dimensions (WDH): 860 x 860 x 1650 mm	
	◦ Features:	
	- <u>Flammable Chemical Storage Cabinet</u>	
	▪ Fire-resistant double-layer steel with 38mm insulation.	
	▪ Three-linkage lock with dual keys, compatible with padlock.	
	▪ 50mm anti-leakage tank for spill prevention.	
	▪ Vents with fire protection, labeled for hazardous materials.	
	◦ <u>Strong Acid/Alkali Cabinet:</u>	
	- Made from anti-corrosive PP, ideal for strong acids/alkalis.	

	- Adjustable shelves, padlock design, customizable.	
	◦ Note:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	• Delivery Period: within 90 calendar days upon receipt of NTP	
	• Delivery Site: PhilFIDA- FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 5	Supply and Delivery of Branded and Brand New Sample Cutter	
	• 1 unit	
	• Technical Specifications:	
	◦ <u>Machine Type:</u>	
	- CNC Router Type Machine with dust collector	
	- Applicable for cutting and engraving materials such as plastics, wood, acrylic, MDF, plyboard, aluminum panels, brass, PVC boards, sintra boards, laminates, ceramic composites etc.	
	◦ <u>Cutting Area:</u>	
	- X-axis Travel: 1300 mm	
	- Y-axis Travel: 2500 mm	
	- Z-axis Travel: 200 mm	
	◦ <u>Spindle/Cutting Head:</u>	
	- Spindle power: Water Cooling 3.0kW	

	- Speed: 0-24000 rpm	
	◦ <u>Controller and Software:</u>	
	- Driver: Stepper Subdivided	
	- Software: includes compatible and user- friendly software	
	- Software compatibility: Ensure compatibility with CAD/CAM software (e.g. AutoCAD, Solidworks, Fusion 360)	
	- G-Code Compatibility: Machine must support G- Code input for programming	
	- File Transfer: USB compatible	
	- Positional Accuracy: < 0.05 mm	
	- Cutting Speed: > 1500 mm/min	
	◦ <u>Machine Frame:</u>	
	- Heavy-duty steel or cast- iron construction to minimize vibration and improve precision	
	- Bed material: suitable for the cutting of steel or metal, MDF, wood, plastic boards etc.	
	◦ <u>Safety Features:</u>	
	- Equipped with emergency stop buttons	
	- integrated dust collection or fume extraction system	
	- CE or ISO certification for machine quality standards	
	◦ <u>Power Supply:</u> Power Requirements: AC220V, single phase, 50-60 Hz	
	◦ <u>Inclusions:</u>	
	- Two (2) years warranty on parts and labor which	

	includes preventive maintenance and calibration of the unit during the warranty period	
	- Local training/on-site on the basic operation, troubleshooting, maintenance of the unit	
	- On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier	
	◦ Note:	
	- External provider must be existing in the Philippine Market at least five (5) years	
	- With authorization from the manufacturer	
	• Delivery Period: within 90 calendar days upon receipt of NTP	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 6	Supply and Delivery of Branded and Brand New Particle Sieve Shaker	
	• 1 unit	
	• Applications: separation, fractioning, particle size determination	
	• Technical Specifications:	
	◦ Applicable Materials: Powders, granular materials, aggregates and other similar materials; can be used for dry and wet materials	
	◦ Machine Type: Vibratory sieve shaker	

	<ul style="list-style-type: none"> ◦ Mechanism: vibratory with vertical and horizontal motion 	
	<ul style="list-style-type: none"> ◦ easy operation and ergonomic design 	
	<ul style="list-style-type: none"> ◦ with digital timer display 	
	<ul style="list-style-type: none"> • Sieve: Sieve Diameter: suitable for 100 mm, 150 mm, 200 mm, 203 mm 	
	<ul style="list-style-type: none"> • Material: durable and corrosion-resistant, stainless steel or brass (for sieves), applicable to ASTM E11, ISO 3310 mesh sizes 	
	<ul style="list-style-type: none"> • Measuring Range: 20 micrometers to 25 millimeters 	
	<ul style="list-style-type: none"> • Accessories: includes clamping device, collecting pan, test sieves with wire gauze and compliance certificate 	
	<ul style="list-style-type: none"> • Feed capacity: up to 3 kg 	
	<ul style="list-style-type: none"> • Sieving Stacks Max weight: up to 6 kg max weight of sieving stack 	
	<ul style="list-style-type: none"> • Noise Level: Operates within acceptable noise level typically below 70 dB 	
	<ul style="list-style-type: none"> • Compliance and Certification: CE certification or other relevant safety and quality certifications. 	
	<ul style="list-style-type: none"> • Power Supply: Power Requirements: 230V, 50/60 Hz 	
	<ul style="list-style-type: none"> • Inclusions: 	
	<ul style="list-style-type: none"> ◦ Two (2) years warranty on parts and labor which includes preventive maintenance and calibration 	

	of the unit during the warranty period	
	<ul style="list-style-type: none"> ◦ Local training/on-site on the basic operation, troubleshooting, maintenance of the unit 	
	<ul style="list-style-type: none"> ◦ On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days upon receipt of NTP 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 7	Supply and Delivery of Branded and Brand New Canadian Standard Freeness Tester	
	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ compliance to standards: TAPPI T227, ISO 5267-2, Scan C 21 	
	<ul style="list-style-type: none"> ◦ Measuring Cylinder: 	
	<ul style="list-style-type: none"> - Material: Corrosion-resistant stainless steel or equivalent 	
	<ul style="list-style-type: none"> - Capacity: 1000 ml graduated cylinder Graduation: with precise increments, clearly marked for accuracy 	
	<ul style="list-style-type: none"> ◦ Orifice Plate: 	
	<ul style="list-style-type: none"> - Material: stainless steel or hardened material to withstand wear 	
	<ul style="list-style-type: none"> - Orifice Diameter: Approximately 0.81 mm as per TAPPI T227 and ISO 5267-2 	

	- Seating Surface: Smooth and properly aligned to prevent leakage	
	° Receiver Vessel (Freeness Indicator)	
	- Quantity: 4 pcs CSF measuring graduated cylinders	
	- Volume: Designed to collect up to 1000 ml of discharged water	
	- Material: Corrosion-resistant, stainless steel or durable plastic	
	° Drainage Cone	
	- Material: Stainless steel or equivalent	
	- Angle: 60° or standard cone shape as per TAPPI/ISO	
	- Volume: Calibrated to hold specified volumes for accurate freeness measurement	
	° Valve Assembly	
	- Type: Precision-operated valve and corrosion resistant	
	- Material: Stainless steel or equivalent	
	° Body	
	- Robust Design: Body should be designed for long-term durability, resistant to chemicals typically encountered in pulp testing	
	- Base: Stable and balanced, non-slip base to ensure accurate readings without vibrations and movement	
	° Operating Environment	

	- Temperature range: Suitable for operating between 15 to 32° C	
	- Humidity range: Suitable for typical laboratory environments, 30 – 70 % relative humidity	
	° Inclusions	
	- Two (2) years warranty on parts and labor which includes preventive maintenance and calibration of the unit during the warranty period	
	- Local training/on-site on the basic operation, troubleshooting, maintenance of the unit	
	- Training at manufacturer’s site for two (2) technical personnel	
	- On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier	
	° Note	
	- External provider must be existing in the Philippine Market at least five (5) years	
	- With authorization from the manufacturer	
	• <u>Delivery Period:</u> within 90 calendar days upon receipt of NTP	
	• <u>Delivery Site:</u> PhilFIDA- FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 8	Supply and Delivery of Branded and Brand New Standard Pulp Disintegrator	
	• 1 unit	

	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Applicable international standards (TAPPI 205, ISO 5263, SCAN-CM 15) 	
	<ul style="list-style-type: none"> ◦ Machine Type: High-speed rotary disintegrator designed specifically for pulp and paper laboratory use 	
	<ul style="list-style-type: none"> ◦ Capacity: 2 to 50 g (oven-dried basis) pulp samples as per standardized testing requirements 	
	<ul style="list-style-type: none"> ◦ Disintegration Chamber 	
	<ul style="list-style-type: none"> - Material: Corrosion-resistant stainless steel to handle water-based pulp suspensions (slurry) 	
	<ul style="list-style-type: none"> - Volume: up to approximately 3 liters 	
	<ul style="list-style-type: none"> ◦ Rotor 	
	<ul style="list-style-type: none"> - Type: highspeed propeller-type rotor 	
	<ul style="list-style-type: none"> - Speed: approximately 3,000 rpm as per TAPPI/ISO/SCAN standards 	
	<ul style="list-style-type: none"> - Rotor Clearance: Pre-calibrated to avoid cutting or shredding the pulp fibers, designed to ensure uniform fiber dispersion 	
	<ul style="list-style-type: none"> ◦ Operator Timer: Timer Control: Digital timer with preset timing capabilities 	
	<ul style="list-style-type: none"> ◦ Body 	
	<ul style="list-style-type: none"> - Frame: made from corrosive-resistant material such as heavy-duty steel, cast-iron frame or any applicable to minimize vibration during operation 	
	<ul style="list-style-type: none"> - Chamber Lid: Sealed chamber with a secure, lockable lid to prevent 	

	splashing or spillage during disintegration	
	- Electrical power connection: 230 V 50/60 Hz	
	<ul style="list-style-type: none"> ◦ Control Interface: User Interface: User friendly control panel with start/stop buttons and a digital timer ◦ Safety Features: with safety mechanism to prevent operation while the lid is open 	
	◦ Noise Level: Operates within acceptable noise level typically below 70 dB	
	◦ Compliance and Certification: CE certification or other relevant safety and quality certifications.	
	◦ Inclusions	
	- Two (2) years warranty on parts and labor which includes preventive maintenance and calibration of the unit during the warranty period	
	- Local training/on-site on the basic operation, troubleshooting, maintenance of the unit	
	- Training at manufacturer's site for two (2) technical personnel	
	- On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier	
	◦ Note	
	- External provider must be existing in the Philippine Market at least five (5) years	

	- With authorization from the manufacturer	
	• <u>Delivery Period:</u> within 90 calendar days upon receipt of NTP	
	• <u>Delivery Site:</u> PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 9	Supply and Delivery of Branded and Brand New Mobile Chemical Adsorption/Decontamination Unit	
	• 2 units	
	• Purification, neutralization and reduction of airborne particulate matter, volatile organic compounds and microbiological contaminants	
	• <u>Technical Specifications:</u>	
	◦ Isolation flowrate of at least : 24 CFM	
	◦ Freestanding flowrate of at least: 75 CFM	
	◦ Air Output: 200-600m³/h	
	◦ EN 1822 Filter Classification	
	◦ Output Air Quality MERV Standard: MERV 19	
	◦ With Real Time Control UV lamp life	
	◦ Voltage Option: 110/230VAC	
	◦ Features	
	- Equipped with LCD Control Panel	
	- English Display options	
	- Working Modes: Manual/Auto	

	- Electrical Safety features: CE, EMC Certification	
	- Local LAN Control (dedicated)	
	◦ Note	
	- With 13th Generation Laptop Computer	
	- Printer: Wireless, continuous ink system.	
	◦ On-site Training: Local training for basic operation, troubleshooting, and maintenance.	
	◦ Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit.	
	• Delivery Period: within 60-90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 10	Supply, Delivery and Installation of Branded and Brand New Compound Projection Microscope	
	• <u>Technical Specifications:</u>	
	◦ Optical System: Infinity Optical System	
	◦ Illumination: Built-in system	
	◦ Nosepiece: Fixed Quadruple with Safety Grip and Locking Pin	
	◦ Objectives: Anti-fungus and Achromat, 4x, 10x, 40x, 100x (100x X10=1000x magnification)	
	◦ Camera: CMOS Sensor	
	- Interface/Slots: USB 3.0, HDMI, SD Card, LAN,	

	supports preview and playback	
	- Sensitivity: At least 505mv with 1/30s	
	◦ Monitor: At least 24"	
	◦ Language: English	
	◦ Voltage: 220/240VAC	
	◦ Inclusions:	
	- AVR and Uninterruptable Power Supply (UPS)	
	- 13th Generation Laptop Computer	
	- Printer (wireless, continuous ink system)	
	- 3-year warranty (parts), 1-year warranty (labor service)	
	- Camera Warranty: 1 year (parts and labor), includes preventive maintenance/calibration	
	◦ Additional Features:	
	- On-site local training (basic operation, troubleshooting, and maintenance)	
	- Training at manufacturer's site for 2 technical personnel	
	- Incidental services (installation/repair, electrical services) to be covered by the supplier	
	◦ Note:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	• Delivery Period: within 90 calendar days upon receipt of NTP	

	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 11	Supply, Delivery and Installation of Branded and Brand New Fully Automated Fiber Analyzer for Crude Fibers	
	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ Number of Extraction Positions: 6 	
	<ul style="list-style-type: none"> ◦ Testing Parameters: 	
	<ul style="list-style-type: none"> - NDF (Neutral Detergent Fiber) 	
	<ul style="list-style-type: none"> - ADF (Acid Detergent Fiber) 	
	<ul style="list-style-type: none"> - ADL (Acid Detergent Lignin) 	
	<ul style="list-style-type: none"> ◦ Testing Accuracy: According to officially approved methods (ISO or equivalent) 	
	<ul style="list-style-type: none"> ◦ Measuring Range: 0.1 - 100% or better 	
	<ul style="list-style-type: none"> ◦ Repeatability: 1% RPD or better 	
	<ul style="list-style-type: none"> ◦ Nominal Voltage: 230V 	
	<ul style="list-style-type: none"> ◦ Frequency: 60Hz 	
	<ul style="list-style-type: none"> ◦ Accessories: 	
	<ul style="list-style-type: none"> - Standard Accessory Kit: 1 set 	
	<ul style="list-style-type: none"> - Standard Power Cable: 230V 	
	<ul style="list-style-type: none"> - Crucible P2 Standard: 40-100µm, 6 pcs/set, 2 sets 	
	<ul style="list-style-type: none"> - Lower Sealing Ring Crucible: 6 pcs/pack, 1 pack 	
	<ul style="list-style-type: none"> - Filtration Aid: Celite 545, 1 L 	
	<ul style="list-style-type: none"> - Antifoaming Agent: Octanol, 100 mL 	

	- Cold Extraction Unit	
	- PM Kit: For both hot extraction and cold extraction units	
	- Automatic Voltage Regulator (AVR)	
	- 6kVA Uninterruptible Power Supply (UPS)	
	- 13th Generation laptop computer	
	° Note:	
	- Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit.	
	- On-site Training: Local training for basic operation, troubleshooting, and maintenance.	
	- Manufacturer's Training: Training at the manufacturer's site for 2 technical personnel, covering material testing, software, and method creation.	
	- Any incidental services for installation, repair, or construction (including electrical services) are at the supplier's expense.	
	▪ The manufacturer must be existing in the Philippine Market at least five (5) years	
	▪ With manufacturer's authorization	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 12	Supply, Delivery and Installation of Branded and	

	Brand New Somerville Fractionator	
	• 1 unit	
	• <u>Technical Specifications:</u>	
	◦ Separating contaminants, such as shivers, stickies, flakes and particles from pulp slurry according to TAPPI 275	
	◦ Screen plate; stainless steel with 756 slots of 0.15 mm x 45 mm screen box; 315 mm x 250 mm articulated and with quick action latch	
	◦ Central spray nozzle with 12 jets parallel to screen plate and adjustable flow pulsating diaphragm running at 12 Hz and 3.2mm amplitude C, Single phase, 50/60 Hz, 350 W.	
	◦ Additional spare of screen plate and rubber gasket	
	◦ Certification: CE certification or other relevant safety and quality certifications.	
	◦ Inclusions:	
	- Two (2) years warranty on parts and labor which includes preventive maintenance and calibration of the unit during the warranty period	
	- Local training/on-site on the basic operation, troubleshooting, maintenance of the unit	
	- Training at manufacturer's site for two (2) technical personnel	
	- On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier	

	<ul style="list-style-type: none"> ◦ Note: 	
	<ul style="list-style-type: none"> - External provider must be existing in the Philippine Market at least five (5) years 	
	<ul style="list-style-type: none"> - With authorization from the manufacturer 	
	<ul style="list-style-type: none"> • Delivery Period: within 90 calendar days 	
	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 13	Supply and Delivery of Branded and Brand New Fourier Transform Infrared Spectrophotometer (FTIR)	
	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ with Attenuated Total Reflection (ATR) accessory 	
	<ul style="list-style-type: none"> ◦ with durable Diamond Crystal ATR Technology for solid and liquid sample analysis 	
	<ul style="list-style-type: none"> ◦ with Germanium Disk alternate accessory 	
	<ul style="list-style-type: none"> ◦ Sample stage: universal sample holder suitable for liquid, solid and powder samples 	
	<ul style="list-style-type: none"> ◦ with self-calibration feature for instrument status and performance evaluation 	
	<ul style="list-style-type: none"> ◦ Applicable international standards (ISO/TR 11827, ASTM E2224) 	
	<ul style="list-style-type: none"> ◦ Spectral/ Wavelength Range: >7000 cm⁻¹ to 350 cm⁻¹ 	
	<ul style="list-style-type: none"> ◦ Spectral Resolution: 2 cm⁻¹ or better 	
	<ul style="list-style-type: none"> ◦ S/N Ratio: 30,000:1 or better 	

	<ul style="list-style-type: none"> ◦ Detector Type: High-sensitive Deuterated Triglycine Sulfate (DTGS) 	
	<ul style="list-style-type: none"> ◦ Data Collection Mode: Full-range single-scan capability 	
	<ul style="list-style-type: none"> ◦ Electrical power connection: 230 V 50/60 Hz 	
	<ul style="list-style-type: none"> ◦ include standard ATR crystal cleaning kit for maintenance 	
	<ul style="list-style-type: none"> ◦ Hardware Requirements: 	
	<ul style="list-style-type: none"> - Includes a Desktop computer, 13th generation Intel Core i5 processor or equivalent or the latest generation; 1TB hard disk, 8GB RAM, 	
	<ul style="list-style-type: none"> - OS: Windows 11 Pro, and wireless printer with continuous ink system 	
	<ul style="list-style-type: none"> - Equipped with AVR and Uninterruptible Power Supply (UPS) 	
	<ul style="list-style-type: none"> - Monitor: Minimum 23-inch LED display (Full HD) 	
	<ul style="list-style-type: none"> ◦ Software Features: 	
	<ul style="list-style-type: none"> - with a user-friendly interface with report generation 	
	<ul style="list-style-type: none"> - can use spectrum processing, evaluation and reporting of IR data 	
	<ul style="list-style-type: none"> - Automatic data processing, baseline correction and peak identification 	
	<ul style="list-style-type: none"> - Advanced spectral library search, with library containing 10,000 spectra or greater related to natural fibers, polymers, additives, fillers, plasticizers, biochemicals, cosmetics and more 	
	<ul style="list-style-type: none"> - Quantitative and qualitative analysis 	
	<ul style="list-style-type: none"> - Multi-language support including English 	

	- Latest version of spectral data acquisition and analysis compatible with Windows 11	
	◦ Compliance and Certification: CE certification or other relevant safety and quality certifications.	
	◦ Power Supply:	
	- 220V, 50/60 Hz	
	- Environment Conditions: Temperature 15 to 35 °C, Humidity < 70 %	
	◦ Inclusions:	
	- with laboratory room dehumidifier	
	- free desiccant consumables	
	- Two (2) years warranty on parts and labor	
	- Three (3) years preventive maintenance and calibration of the unit	
	- Local training/on-site on the basic operation, troubleshooting, maintenance of the unit	
	- Training at manufacturer's site for two (2) technical personnel	
	- On-site installation and any incidental services for the installation of the unit should be at the expense of the supplier	
	◦ Note:	
	- External provider must be existing in the Philippine Market at least five (5) years	
	- With authorization from the manufacturer	
	• Delivery Period: within 90 calendar days	

	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 14	Supply, Delivery and Installation of Branded and Brand New Fully Automated Soxhlet Extraction System	
	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ Number of Extraction Positions: 6 	
	<ul style="list-style-type: none"> ◦ Measurement Range: 0.1 - 100% or better 	
	<ul style="list-style-type: none"> ◦ Testing Accuracy: According to officially approved methods (ISO or equivalent) 	
	<ul style="list-style-type: none"> ◦ Reproducibility: 1% RPD or better 	
	<ul style="list-style-type: none"> ◦ Temperature Range: 0 - 285°C or better 	
	<ul style="list-style-type: none"> ◦ Nominal Voltage: 230V 	
	<ul style="list-style-type: none"> ◦ Frequency: 60Hz 	
	<ul style="list-style-type: none"> ◦ Inclusions: 	
	<ul style="list-style-type: none"> - Standard Accessory Kit 	
	<ul style="list-style-type: none"> - Extraction Cups (Aluminum): 6 pcs/set, 3 sets 	
	<ul style="list-style-type: none"> - Thimble Stand: 1 pc 	
	<ul style="list-style-type: none"> - Cellulose Thimbles: 33mm, 25/set, 1 set 	
	<ul style="list-style-type: none"> - Condenser Seals: 	
	<ul style="list-style-type: none"> ▪ Butyl, 6 pcs/set, 1 set 	
	<ul style="list-style-type: none"> ▪ Viton, 6 pcs/set, 1 set 	
	<ul style="list-style-type: none"> - PM Kit: 1 set 	
	<ul style="list-style-type: none"> - Bottletop Dispenser: 5-50 mL, 1 pc 	

	- Automatic Voltage Regulator (AVR)	
	- 3kVA Uninterruptible Power Supply (UPS)	
	- 13th Generation laptop computer	
	◦ Note:	
	- Warranty: One (1) year on parts and labor, including preventive maintenance and calibration of the unit	
	- On-site Training: Local training for basic operation, troubleshooting, and maintenance.	
	- Manufacturer's Training: Training at the manufacturer's site for 2 technical personnel, covering material testing, software, and method creation	
	- Any incidental services for installation, repair, or construction (including electrical services) are at the supplier's expense.	
	◦ Others:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	
Lot 15	Supply, Delivery and Installation of Branded and Brand New Universal Testing Machine	

	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • Dual Column Table Top Material Testing System (50KN / 5000kgf capacity) 	
	<ul style="list-style-type: none"> • <u>Technical Specifications:</u> 	
	<ul style="list-style-type: none"> ◦ Maximum Crosshead Travel: At least 1607mm 	
	<ul style="list-style-type: none"> ◦ Vertical Test Space Clearance: At least 1700mm 	
	<ul style="list-style-type: none"> ◦ Speed Range: At least 0.05 - 508mm/min 	
	<ul style="list-style-type: none"> ◦ Maximum Return Speed: At least 508mm/min (fully variable speed control) 	
	<ul style="list-style-type: none"> ◦ Testing Speed Accuracy: At least $\pm 0.2\%$ of the set speed 	
	<ul style="list-style-type: none"> ◦ Maximum Force at Full Speed: At least 25KN 	
	<ul style="list-style-type: none"> ◦ Maximum Speed at Full Speed: At least 250mm/min 	
	<ul style="list-style-type: none"> ◦ Grips and Extensometer: 	
	<ul style="list-style-type: none"> - <u>Grips</u> 	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Capacity: At least 50KN 	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Self-tightening 	
	<ul style="list-style-type: none"> - <u>Jaw Faces:</u> Two (2) sets of flat serrated and Two (2) sets rubber-coated. 	
	<ul style="list-style-type: none"> - <u>Rope/Snubbing Grips:</u> 	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Capacity: 50KN 	
	<ul style="list-style-type: none"> <ul style="list-style-type: none"> ▪ Accommodates diameters from 3/16" to 1". 	
	<ul style="list-style-type: none"> - <u>Strain Gauge Extensometer:</u> Gauge Length: At least 50mm. 	
	<ul style="list-style-type: none"> ◦ Safety Features: 	
	<ul style="list-style-type: none"> - Collision Mitigation: Reduces damage to the unit. 	

	- Auto-Frame Standby Mode	
	- Accreditation: Compliant with ISO and ASTM Standards for load, speed, and displacement.	
	◦ Standards Compliance:	
	- Collision Mitigation: Reduces damage to the unit.	
	- Auto-Frame Standby Mode	
	- Compliant with the following standards: ASTM E4, ASTM D638, ASTM D3039, ASTM D790, EN 10002-2, BS 1610, DIN 51221, ISO 7500-1, ASTM E83, EN 10002-4, BS 3846, ISO 9513	
	◦ Additional Features:	
	- Customized Safety Enclosure: Adjustable and mounted to the column, ensuring operator safety during testing.	
	- Tension/Compression Load Cell Force:	
	▪ Capacity: At least 50KN	
	▪ Equipped with overload protection	
	◦ Software and User Interface:	
	- Universal Testing Software: New generation software for advance testing	
	- User Interface: with at least 10” LCD Display Full Touch Panel Control, equipped with 3.0 USB ports, LAN port, Bluetooth	

	4.0, and wireless connection option	
	- Language Option: English	
	- Voltage Option: 220/240VAC	
	- Equipped with Automatic Voltage Regulator (AVR) and 1kVA Uninterruptible Power Supply (UPS).	
	- 13th Generation Desktop Computer	
	- Printer: Wireless, continuous ink system.	
	- Warranty: Two (2) year on parts and labor, including One (1) year preventive maintenance and calibration of the unit.	
	- On-site Training: Local training for basic operation, troubleshooting, and maintenance.	
	- Manufacturer's Training: Training at the manufacturer's site for 3 technical personnel covering material testing, software, and method creation.	
	- Any incidental services for installation, repair, or construction, including electrical services, are at the supplier's expense.	
	° Note:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	• Delivery Period: within 90 calendar days	

	<ul style="list-style-type: none"> • Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City 	
Lot 16	Supply, Delivery and Installation of Branded and Brand New Fiber Image Analyzer	
	<ul style="list-style-type: none"> • 1 unit 	
	<ul style="list-style-type: none"> • Applications: 	
	<ul style="list-style-type: none"> ◦ Designed for a wide variety of plant and wood fibers: 	
	<ul style="list-style-type: none"> - Pulp and paper 	
	<ul style="list-style-type: none"> - Recycled fibers 	
	<ul style="list-style-type: none"> - Artificial fibers 	
	<ul style="list-style-type: none"> - Various non-wood fibers 	
	<ul style="list-style-type: none"> • Technical Specifications: 	
	<ul style="list-style-type: none"> ◦ Compliance Standards: 	
	<ul style="list-style-type: none"> - ISO 16065-2 Compliant 	
	<ul style="list-style-type: none"> - TAPPI T271 Compliant 	
	<ul style="list-style-type: none"> ◦ Measured Properties: 	
	<ul style="list-style-type: none"> - Curl 	
	<ul style="list-style-type: none"> - Fiber dimensions (length and width) 	
	<ul style="list-style-type: none"> - Fibrillation 	
	<ul style="list-style-type: none"> - Cell-wall thickness 	
	<ul style="list-style-type: none"> - Coarseness 	
	<ul style="list-style-type: none"> - Fines 	
	<ul style="list-style-type: none"> - Cross-sectional area 	
	<ul style="list-style-type: none"> - Optical consistency 	
	<ul style="list-style-type: none"> - Image and particle count 	

	- Kink	
	- Vessels	
	- Shives	
	- Others	
	◦ Operational Capacity: Maximum 100 samples per 8 hours	
	◦ Optics and Camera: At least 1 μm measurable particle size	
	◦ Measuring Range and Accuracy:	
	- Fiber length: 0.01 mm to 10.00 mm (minimum)	
	- Fiber width: 1 μm to 1000 μm (minimum)	
	◦ Measuring Cell:	
	- Depth of at least 3 mm	
	- Equipped with easy maintenance and automatic self-cleaning	
	◦ Connections: LAN and USB	
	◦ Accessories Included:	
	- Sample cups	
	- Analyzer LAN cable assembly (10 meters)	
	- Measurement accuracy verification kit	
	- Drain and water tubes	
	- Water treatment unit	
	- USB 2.0 HUB	
	- Manual disintegrator (250 ml)	
	- Water filter unit	
	◦ Additional Features:	

	- Analyzer licensed software	
	- English language option available	
	- Voltage option: 220/240VAC, 50/60Hz	
	- Equipped with AVR and Uninterruptible Power Supply (UPS)	
	- Includes a 13th generation desktop computer and wireless printer with continuous ink system	
	- One (1) year warranty on parts and labor, including preventive maintenance and calibration during the warranty period	
	- On-site local training for basic operation, troubleshooting, and maintenance of the unit	
	- Training at the manufacturer's site for two (2) technical personnel for full operation and software training	
	- Any incidental services related to installation/repair, such as construction, plumbing, or electrical services, will be at the supplier's expense	
	◦ Note:	
	- The manufacturer must be existing in the Philippine Market at least five (5) years	
	- With manufacturer's authorization	
	• Delivery Period: within 90 calendar days	
	• Delivery Site: PhilFIDA-FPUL, BAI Compound Visayas Ave. Quezon City	

Signature Over Printed Name

Position/Designation

Name of Company

Section VIII. Checklist of Technical and Financial Documents

Notes on the Checklist of Technical and Financial Documents

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

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

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

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

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

Technical Documents

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

Financial Documents

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

Class "B" Documents

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

II. FINANCIAL COMPONENT ENVELOPE

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

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

- (k) [For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in

- government procurement activities for the same item or product.
- (1) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

