Procurement of GOODS

Procurement of Equipment (Spectroscopy) for the Upgrading of Research Laboratory

Batangas State University
SECTION I
INVITATION TO BID

PROCUREMENT OF EQUIPMENT (SPECTROSCOPY) FOR THE UPGRADE OF RESEARCH LABORATORY

1. The Batangas State University, intends to apply the sum of Six Million Eight Hundred Thousand Pesos (Php 6,800,000.00) being the Approved Budget for the Contract (ABC) to payments under the contract for Procurement of Equipment (Spectroscopy) for the Upgrading of Research Laboratory. Bids received in excess of the ABC shall be automatically rejected at bid opening.

2. The Batangas State University now invites bids for Procurement of Equipment (Spectroscopy) for the Upgrading of Research Laboratory. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project, equivalent to at least fifty percent (50%) of the ABC. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II Instruction to Bidders.

3. Bidding will be conducted through open competitive bidding procedures using non-discretionary pass/fail criterion as specified in the Revised Implementing Rules and Regulations (IRR) of Republic Act 9184 (RA 9184).

4. Interested bidders may obtain further information from Batangas State University and inspect the Bidding Documents at the BAC Office, Ground Floor, ITE Building from 8:00 AM to 5:00 PM, or download it from PhilGEPS or from Batangas State University Website (http://www.batstate-u.edu.ph/) provided the bidders shall pay the fee for the bidding documents upon submission of their bids. A complete set of Bidding Documents may be acquired by interested Bidders from the above mentioned address starting January 23, 2015 until the deadline for submission and receipt of bids and upon submission of letter of intent and payment of a nonrefundable fee for the Bidding Documents in the amount of Six Thousand Pesos (Php 6,000.00). Only those who have purchased the Bidding Documents shall be allowed to participate in the pre-bid conference and raise or submit queries or clarifications.

5. The Batangas State University will hold a Pre-Bid Conference on January 30, 2015, 1:00 PM, BAC Office, Ground Floor, ITE Building GPB Campus I which shall be open only to all interested parties who have purchased the Bidding Documents.
6. Bids must be delivered to the above mentioned address on **February 18, 2015, 1:00 – 2:00 PM.** Opening of bids will be at 2:00 PM. All bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18. Bids will be opened in the presence of the bidders’ representatives who choose to attend at the address below. Late bids shall not be accepted.

7. The Batangas State University reserves the right to accept or reject any bid, to annul the bidding process, and to reject all bids at any time prior to contract award, without thereby incurring any liability to the affected bidder or bidders.

For further information, please refer to:

*Office of the BAC Chairman*
*2nd Floor Administration Building, GPB Campus I*
*Rizal Avenue, Batangas City*
*(043) 723-0339 local 102*

*Dr. Jessie A. Montalbo*
*BAC Chairman*
# SECTION II
## INSTRUCTIONS TO BIDDERS

### TABLE OF CONTENTS

**A. GENERAL**

1. Scope of Bid .................................................................................................................................................... 3
2. Source of Funds ............................................................................................................................................ 3
3. Corrupt, Fraudulent, Collusive, and Coercive Practices ............................................................................... 3
4. Conflict of Interest ....................................................................................................................................... 4
5. Eligible Bidders ............................................................................................................................................. 5
6. Bidder’s Responsibilities .......................................................................................................................... 7
7. Origin of Goods .............................................................................................................................................. 8
8. Subcontracts ................................................................................................................................................... 8

**B. CONTENTS OF BIDDING DOCUMENTS**

9. Pre-Bid Conference ..................................................................................................................................... 8
10. Clarification and Amendment of Bidding Documents ............................................................................. 9

**C. PREPARATION OF BIDS**

11. Language of Bid ....................................................................................................................................... 9
12. Documents Comprising the Bid: Eligibility and Technical Components .............................................. 10
13. Documents Comprising the Bid: Financial Component .......................................................................... 11
14. Alternative Bids .......................................................................................................................................... 12
15. Bid Prices ....................................................................................................................................................... 12
16. Bid Currencies ............................................................................................................................................. 13
17. Bid Validity ................................................................................................................................................... 14
18. Bid Security .................................................................................................................................................. 14
19. Format and Signing of Bids ....................................................................................................................... 16
20. Sealing and Marking of Bids ...................................................................................................................... 16

**D. SUBMISSION AND OPENING OF BIDS**

21. Deadline for Submission of Bids .............................................................................................................. 17
22. Late Bids ........................................................................................................................................................ 17
23. Modification and Withdrawal of Bids ......................................................................................................... 17
24. Opening and Preliminary Examination of Bids ....................................................................................... 18

**E. EVALUATION AND COMPARISON OF BIDS**

25. Process to be Confidential ......................................................................................................................... 19
26. Clarification of Bids ..................................................................................................................................... 19
27. Domestic Preference.................................................................................................................................... 19
28. Detailed Evaluation and Comparison of Bids.......................................................................................... 20
29. Post-Qualification .................................................................................................................................... 21
30. Reservation Clause ............................................................................................................................... 22

F. AWARD OF CONTRACT............................................................................................................................. 23

31. Contract Award....................................................................................................................................... 23
32. Signing of the Contract............................................................................................................................. 23
33. Performance Security............................................................................................................................... 24
34. Notice to Proceed.................................................................................................................................... 25
A. General

1. Scope of Bid

1.1. The procuring entity named in the BDS (hereinafter referred to as the “Procuring Entity”) wishes to receive bids for supply and delivery of the goods as described in Section VII. Technical Specifications (hereinafter referred to as the “Goods”).

1.2. The name, identification, and number of lots specific to this bidding are provided in the BDS. The contracting strategy and basis of evaluation of lots is described in ITB Clause 28.

2. Source of Funds

The Procuring Entity has a budget or has applied for or received funds from the Funding Source named in the BDS, and in the amount indicated in the BDS. It intends to apply part of the funds received for the Project, as defined in the BDS, to cover eligible payments under the contract.

3. Corrupt, Fraudulent, Collusive, and Coercive Practices

3.1. Unless otherwise specified in the BDS, 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. In pursuance of this policy, the Procuring Entity:

(a) defines, for purposes of this provision, the terms set forth below as follows:

(i) “corrupt practice” means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in RA 3019.

(ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.

(iii) “collusive practices” means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.
“coercive practices” means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;

“obstructive practice” is

(a) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or investigation or from pursuing such proceedings or investigation; or

(b) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.

3.2. Further, the Procuring Entity will seek to impose the maximum civil, administrative, and/or criminal penalties available under applicable laws on individuals and organizations deemed to be involved in any of the practices mentioned in ITB Clause 3.1(a).

3.3. Furthermore, the Funding Source and the Procuring Entity reserve the right to inspect and audit records and accounts of a bidder or supplier in the bidding for and performance of a contract themselves or through independent auditors as reflected in the GCC Clause 3.

4. **Conflict of Interest**

4.1. All Bidders found to have conflicting interests shall be disqualified to participate in the procurement at hand, without prejudice to the imposition of appropriate administrative, civil, and criminal sanctions. A Bidder may be considered to have conflicting interests with another Bidder in any of the events described in paragraphs (a) through (c) below and a general conflict of interest in any of the circumstances set out in paragraphs (d) through (f) below:

(a) A Bidder has controlling shareholders in common with another Bidder;

(b) A Bidder receives or has received any direct or indirect subsidy from any other Bidder;
Instructions to Bidders

(c) A Bidder has the same legal representative as that of another Bidder for purposes of this bid;

(d) A Bidder has a relationship, directly or through third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder or influence the decisions of the Procuring Entity regarding this bidding process. This will include a firm or an organization who lends, or temporarily seconds, its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for or implementation of the project if the personnel would be involved in any capacity on the same project;

(e) A Bidder submits more than one bid in this bidding process. However, this does not limit the participation of subcontractors in more than one bid; or

(f) A Bidder who participated as a consultant in the preparation of the design or technical specifications of the Goods and related services that are the subject of the bid.

4.2. In accordance with Section 47 of the IRR of RA 9184, all Bidding Documents shall be accompanied by a sworn affidavit of the Bidder that it is not related to the Head of the Procuring Entity, members of the Bids and Awards Committee (BAC), members of the Technical Working Group (TWG), members of the BAC Secretariat, the head of the Project Management Office (PMO) or the end-user unit, and the project consultants, by consanguinity or affinity up to the third civil degree. On the part of the Bidder, this Clause shall apply to the following persons:

(a) If the Bidder is an individual or a sole proprietorship, to the Bidder himself;

(b) If the Bidder is a partnership, to all its officers and members;

(c) If the Bidder is a corporation, to all its officers, directors, and controlling stockholders; and

(d) If the Bidder is a joint venture (JV), the provisions of items (a), (b), or (c) of this Clause shall correspondingly apply to each of the members of the said JV, as may be appropriate.

Relationship of the nature described above or failure to comply with this Clause will result in the automatic disqualification of a Bidder.

5. Eligible Bidders

5.1. Unless otherwise provided in the BDS, the following persons shall be eligible to participate in this bidding:

(a) Duly licensed Filipino citizens/sole proprietorships;

(b) Partnerships duly organized under the laws of the Philippines and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines;
(c) Corporations duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the outstanding capital stock belongs to citizens of the Philippines;

(d) Cooperatives duly organized under the laws of the Philippines, and of which at least sixty percent (60%) of the interest belongs to citizens of the Philippines; and

(e) Unless otherwise provided in the BDS, persons/entities forming themselves into a JV, i.e., a group of two (2) or more persons/entities that intend to be jointly and severally responsible or liable for a particular contract; Provided, however, that Filipino ownership or interest of the joint venture concerned shall be at least sixty percent (60%).

5.2. Foreign bidders may be eligible to participate when any of the following circumstances exist, as specified in the BDS:

(a) When a Treaty or International or Executive Agreement as provided in Section 4 of the RA 9184 and its IRR allow foreign bidders to participate;

(b) Citizens, corporations, or associations of a country, included in the list issued by the GPPB, the laws or regulations of which grant reciprocal rights or privileges to citizens, corporations, or associations of the Philippines;

(c) When the Goods sought to be procured are not available from local suppliers; or

(d) When there is a need to prevent situations that defeat competition or restrain trade.

5.3. Government corporate entities may be eligible to participate only if they can establish that they (a) are legally and financially autonomous, (b) operate under commercial law, and (c) are not dependent agencies of the GOP or the Procuring Entity.

5.4. Unless otherwise provided in the BDS, the Bidder must have completed at least one contract similar to the Project the value of which, adjusted to current prices using the National Statistics Office consumer price index, must be at least equivalent to a percentage of the ABC stated in the BDS.

For this purpose, contracts similar to the Project shall be those described in the BDS, and completed within the relevant period stated in the Invitation to Bid and ITB Clause 12.1(a)(iii).

The Bidder must submit a computation of its Net Financial Contracting Capacity (NFCC), which must be equal to the ABC to be bid, calculated as follows:

\[
NFCC = [(\text{Current assets minus current liabilities}) \times (K)] \text{ minus the value of all outstanding or uncompleted portions of the projects under ongoing contracts, including awarded contracts yet to be started coinciding with the contract for this Project.}
\]

Where:
K = 10 for a contract duration of one year or less, 15 for a contract duration of more than one year up to two years, and 20 for a contract duration of more than two years.

The value of the bidder’s current assets and current liabilities shall be based on the data submitted to the BIR, through its Electronic Filing and Payment System.

6. **Bidder’s Responsibilities**

6.1. The Bidder or its duly authorized representative shall submit a sworn statement in the form prescribed in Section VIII – Bidding Forms as required in ITB Clause 12.1(b)(iii).

6.2. The Bidder is responsible for the following:

   (a) Having taken steps to carefully examine all of the Bidding Documents;

   (b) Having acknowledged all conditions, local or otherwise, affecting the implementation of the contract;

   (c) Having made an estimate of the facilities available and needed for the contract to be bid, if any;

   (d) Having complied with its responsibility to inquire or secure Supplemental/Bid Bulletin(s) as provided under ITB Clause 10.3.

   (e) Ensuring that it is not “blacklisted” or barred from bidding by the GOP or any of its agencies, offices, corporations, or LGUs, including foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the GPPB;

   (f) Ensuring that each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

   (g) Authorizing the Head of the Procuring Entity or its duly authorized representative/s to verify all the documents submitted;

   (h) Ensuring that the signatory is the duly authorized representative of the Bidder, and granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the Bidder in the bidding, with the duly notarized Secretary's Certificate attesting to such fact, if the Bidder is a corporation, partnership, cooperative, or joint venture;

   (i) Complying with the disclosure provision under Section 47 of RA 9184 in relation to other provisions of RA 3019; and

   (j) Complying with existing labor laws and standards, in the case of procurement of services.

Failure to observe any of the above responsibilities shall be at the risk of the Bidder concerned.

6.3. The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents.
6.4. It shall be the sole responsibility of the Bidder to determine and to satisfy itself by such means as it considers necessary or desirable as to all matters pertaining to the contract to be bid, including: (a) the location and the nature of this Project; (b) climatic conditions; (c) transportation facilities; and (d) other factors that may affect the cost, duration, and execution or implementation of this Project.

6.5. The Procuring Entity shall not assume any responsibility regarding erroneous interpretations or conclusions by the prospective or eligible bidder out of the data furnished by the procuring entity.

6.6. The Bidder shall bear all costs associated with the preparation and submission of his bid, and the Procuring Entity will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

6.7. Before submitting their bids, the Bidder is deemed to have become familiar with all existing laws, decrees, ordinances, acts and regulations of the Philippines which may affect this Project in any way.

6.8. The Bidder should note that the Procuring Entity will accept bids only from those that have paid the nonrefundable fee for the Bidding Documents at the office indicated in the Invitation to Bid.

7. Origin of Goods

Unless otherwise indicated in the BDS, there is no restriction on the origin of goods other than those prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, subject to ITB Clause 27.1.

8. Subcontracts

8.1. Unless otherwise specified in the BDS, the Bidder may subcontract portions of the Goods to an extent as may be approved by the Procuring Entity and stated in the BDS. However, subcontracting of any portion shall not relieve the Bidder from any liability or obligation that may arise from the contract for this Project.

8.2. Subcontractors must comply with the eligibility criteria and the documentary requirements specified in the BDS. In the event that any subcontractor is found by the Procuring Entity to be ineligible, the subcontracting of such portion of the Goods shall be disallowed.

8.3. The Bidder may identify the subcontractor to whom a portion of the Goods will be subcontracted at any stage of the bidding process or during contract implementation. If the Bidder opts to disclose the name of the subcontractor during bid submission, the Bidder shall include the required documents as part of the technical component of its bid.

B. Contents of Bidding Documents

9. Pre-Bid Conference

9.1. (a) If so specified in the BDS, a pre-bid conference shall be held at the venue and on the date indicated therein, to clarify and address the Bidders’ questions on the technical and financial components of this Project.
(b) The pre-bid conference shall be held at least twelve (12) calendar days before the deadline for the submission and receipt of bids. If the Procuring Entity determines that, by reason of the method, nature, or complexity of the contract to be bid, or when international participation will be more advantageous to the GOP, a longer period for the preparation of bids is necessary, the pre-bid conference shall be held at least thirty (30) calendar days before the deadline for the submission and receipt of bids, as specified in the BDS.

9.2. Bidders are encouraged to attend the pre-bid conference to ensure that they fully understand the Procuring Entity's requirements. Non-attendance of the Bidder will in no way prejudice its bid; however, the Bidder is expected to know the changes and/or amendments to the Bidding Documents discussed during the pre-bid conference.

9.3. Any statement made at the pre-bid conference shall not modify the terms of the Bidding Documents unless such statement is specifically identified in writing as an amendment thereto and issued as a Supplemental/Bid Bulletin.

10. Clarification and Amendment of Bidding Documents

10.1. Bidders who have purchased the Bidding Documents may request for clarification on any part of the Bidding Documents for an interpretation. Such request must be in writing and submitted to the Procuring Entity at the address indicated in the BDS at least ten (10) calendar days before the deadline set for the submission and receipt of bids.

10.2. Supplemental/Bid Bulletins may be issued upon the Procuring Entity’s initiative for purposes of clarifying or modifying any provision of the Bidding Documents not later than seven (7) calendar days before the deadline for the submission and receipt of bids. Any modification to the Bidding Documents shall be identified as an amendment.

10.3. Any Supplemental/Bid Bulletin issued by the BAC shall also be posted on the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity concerned, if available. It shall be the responsibility of all Bidders who secure the Bidding Documents to inquire and secure Supplemental/Bid Bulletins that may be issued by the BAC. However, Bidders who have submitted bids before the issuance of the Supplemental/Bid Bulletin must be informed and allowed to modify or withdraw their bids in accordance with ITB Clause 23.

C. Preparation of Bids

11. Language of Bid

The bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Procuring Entity, shall be written in English. Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation in English certified by the appropriate embassy or consulate in the Philippines, in which case the English translation shall govern for purposes of interpretation of the bid.
12. **Documents Comprising the Bid: Eligibility and Technical Components**

12.1. Unless otherwise indicated in the BDS, the first envelope shall contain the following eligibility and technical documents:

(a) **Eligibility Documents** –

Class "A" Documents:

(i) Registration certificate from the Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives, or any proof of such registration as stated in the BDS;

(ii) Mayor's permit issued by the city or municipality where the principal place of business of the prospective bidder is located;

(iii) Statement of all its ongoing and completed government and private contracts within the period stated in the BDS, including contracts awarded but not yet started, if any. The statement shall include, for each contract, the following:

(iii.1) name of the contract;

(iii.2) date of the contract;

(iii.3) kinds of Goods;

(iii.4) amount of contract and value of outstanding contracts;

(iii.5) date of delivery; and

(iii.6) end user’s acceptance or official receipt(s) issued for the contract, if completed.

(iv) Audited financial statements, stamped “received” by the Bureau of Internal Revenue (BIR) or its duly accredited and authorized institutions, for the preceding calendar year, which should not be earlier than two (2) years from bid submission;

(v) NFCC computation in accordance with ITB Clause 5.5;

(vi) Tax Clearance per Executive Order 398, Series of 2005, as finally reviewed and approved by the BIR; and

Class "B" Document:

(vii) If applicable, the 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.

(b) **Technical Documents** –
13. **Documents Comprising the Bid: Financial Component**

13.1. Unless otherwise stated in the BDS, the financial component of the bid shall contain the following:

   (a) Financial Bid Form, which includes bid prices and the bill of quantities and the applicable Price Schedules, in accordance with ITB Clauses 15.1 and 15.4;

   (b) If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification from the DTI, SEC, or CDA issued in accordance with ITB Clause 27, unless otherwise provided in the BDS; and

   (c) Any other document related to the financial component of the bid as stated in the BDS.

13.2. (a) Unless otherwise stated in the BDS, all bids that exceed the ABC shall not be accepted.

   (b) Unless otherwise indicated in the BDS, for foreign-funded procurement, a ceiling may be applied to bid prices provided the following conditions are met:

      (i) Bidding Documents are obtainable free of charge on a freely accessible website. If payment of Bidding Documents is required by the procuring entity, payment could be made upon the submission of bids.

      (ii) The procuring entity has procedures in place to ensure that the ABC is based on recent estimates made by the responsible unit of the procuring entity and that the estimates reflect the quality, supervision and risk and inflationary factors, as well as prevailing market prices, associated with the types of works or goods to be procured.

      (iii) The procuring entity has trained cost estimators on estimating prices and analyzing bid variances.
(iv) The procuring entity has established a system to monitor and report bid prices relative to ABC and engineer’s/procuring entity’s estimate.

(v) The procuring entity has established a system to monitor and report bid prices relative to ABC and procuring entity’s estimate. The procuring entity has established a monitoring and evaluation system for contract implementation to provide a feedback on actual total costs of goods and works.

14. **Alternative Bids**

Alternative Bids shall be rejected. For this purpose, alternative bid is an offer made by a Bidder in addition or as a substitute to its original bid which may be included as part of its original bid or submitted separately therewith for purposes of bidding. A bid with options is considered an alternative bid regardless of whether said bid proposal is contained in a single envelope or submitted in two (2) or more separate bid envelopes.

15. **Bid Prices**

15.1. The Bidder shall complete the appropriate Price Schedules included herein, stating the unit prices, total price per item, the total amount and the expected countries of origin of the Goods to be supplied under this Project.

15.2. The Bidder shall fill in rates and prices for all items of the Goods described in the Bill of Quantities. Bids not addressing or providing all of the required items in the Bidding Documents including, where applicable, Bill of Quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered as non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free to the Government.

15.3. The terms Ex Works (EXW), Cost, Insurance and Freight (CIF), Cost and Insurance Paid to (CIP), Delivered Duty Paid (DDP), and other trade terms used to describe the obligations of the parties, shall be governed by the rules prescribed in the current edition of the International Commercial Terms (INCOTERMS) published by the International Chamber of Commerce, Paris.

15.4. 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), including all customs duties and sales and other taxes already paid or payable:

(i.1) on the components and raw material used in the manufacture or assembly of Goods quoted ex works or ex factory; or

(i.2) on the previously imported Goods of foreign origin quoted ex warehouse, ex showroom, or off-the-shelf and
any Procuring Entity country sales and other taxes which will be payable on the Goods if the contract is awarded.

(ii) The price for inland transportation, insurance, and other local costs incidental to delivery of the Goods to their final destination.

(iii) 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 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, listed in the BDS.

15.5. Prices quoted by the Bidder shall be fixed during the Bidder’s performance of the contract and not subject to variation or price escalation on any account. A bid submitted with an adjustable price quotation shall be treated as non-responsive and shall be rejected, pursuant to ITB Clause 24.

All bid prices shall be considered as fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances. Extraordinary circumstances refer to events that may be determined by the National Economic and Development Authority in accordance with the Civil Code of the Philippines, and upon the recommendation of the Procuring Entity. Nevertheless, in cases where the cost of the awarded contract is affected by any applicable new laws, ordinances, regulations, or other acts of the GOP, promulgated after the date of bid opening, a contract price adjustment shall be made or appropriate relief shall be applied on a no loss-no gain basis.

16. Bid Currencies

16.1. Prices shall be quoted in the following currencies:

(a) For Goods that the Bidder will supply from within the Philippines, the prices shall be quoted in Philippine Pesos.

(b) For Goods that the Bidder will supply from outside the Philippines, the prices may be quoted in the currency(ies) stated in the BDS. 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.

16.2. If so allowed in accordance with ITB Clause 16.1, the Procuring Entity for purposes of bid evaluation and comparing the bid prices will convert the amounts in various currencies in which the bid price is expressed to Philippine Pesos at the foregoing exchange rates.

16.3. Unless otherwise specified in the BDS, payment of the contract price shall be made in Philippine Pesos.
17. **Bid Validity**

17.1. Bids shall remain valid for the period specified in the **BDS** which shall not exceed one hundred twenty (120) calendar days from the date of the opening of bids.

17.2. In exceptional circumstances, prior to the expiration of the Bid validity period, the Procuring Entity may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. The bid security described in **ITB** Clause 18 should also be extended corresponding to the extension of the bid validity period at the least. A Bidder may refuse the request without forfeiting its bid security, but his bid shall no longer be considered for further evaluation and award. A Bidder granting the request shall not be required or permitted to modify its bid.

18. **Bid Security**

18.1. The bid security in the amount stated in the **BDS** shall be equal to the percentage of the ABC in accordance with the following schedule:

<table>
<thead>
<tr>
<th>Form of Bid Security</th>
<th>Amount of Bid Security (Equal to Percentage of the ABC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</td>
<td></td>
</tr>
<tr>
<td>(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.</td>
<td>Two percent (2%)</td>
</tr>
<tr>
<td>(c) Surety bond callable upon demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security.</td>
<td>Five percent (5%)</td>
</tr>
<tr>
<td>(d) Any combination of items (a) to (c) above</td>
<td>Proportionate to share of form with respect to total amount of security</td>
</tr>
<tr>
<td>(e) Bid Securing Declaration</td>
<td>No percentage required</td>
</tr>
</tbody>
</table>

For biddings conducted by LGUs, the Bidder may also submit bid securities in the form of cashier's/manager’s check, bank draft/guarantee, or irrevocable letter of credit from other banks certified by the BSP as authorized to issue such financial statement.

The Bid Securing Declaration mentioned above is an undertaking which states, among others, that the bidder shall enter into contract with the procuring entity and furnish the performance security required under ITB Clause 33.2, from receipt of the Notice of Award, and committing to pay the corresponding fine, and be suspended for a period of time from being qualified to participate in any government procurement activity in the event it violates any of the conditions stated therein as provided in the guidelines issued by the GPPB.
18.2 The bid security should be valid for the period specified in the BDS. Any bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

18.3 No bid securities shall be returned to bidders after the opening of bids and before contract signing, except to those that failed or declared as post-disqualified, upon submission of a written waiver of their right to file a motion for reconsideration and/or protest. Without prejudice on its forfeiture, bid securities shall be returned only after the bidder with the Lowest Calculated and Responsive Bid has signed the contract and furnished the performance security, but in no case later than the expiration of the bid security validity period indicated in ITB Clause 18.2.

18.4 Upon signing and execution of the contract pursuant to ITB Clause 32, and the posting of the performance security pursuant to ITB Clause 33, the successful Bidder’s bid security will be discharged, but in no case later than the bid security validity period as indicated in the ITB Clause 18.2.

18.5 The bid security may be forfeited:

(a) if a Bidder:

(i) withdraws its bid during the period of bid validity specified in ITB Clause 17;

(ii) does not accept the correction of errors pursuant to ITB Clause 28.3(b);

(iii) fails to submit the requirements within the prescribed period or a finding against their veracity as stated in ITB Clause 29.2;

(iv) submission of eligibility requirements containing false information or falsified documents;

(v) submission of bids that contain false information or falsified documents, or the concealment of such information in the bids in order to influence the outcome of eligibility screening or any other stage of the public bidding;

(vi) allowing the use of one’s name, or using the name of another for purposes of public bidding;

(vii) withdrawal of a bid, or refusal to accept an award, or enter into contract with the Government without justifiable cause, after the Bidder had been adjudged as having submitted the Lowest Calculated and Responsive Bid;

(viii) refusal or failure to post the required performance security within the prescribed time;

(ix) refusal to clarify or validate in writing its bid during post-qualification within a period of seven (7) calendar days from receipt of the request for clarification;

(x) any documented attempt by a bidder to unduly influence the outcome of the bidding in his favor;
(xi) failure of the potential joint venture partners to enter into the joint venture after the bid is declared successful; or

(xii) all other acts that tend to defeat the purpose of the competitive bidding, such as habitually withdrawing from bidding, submitting late Bids or patently insufficient bid, for at least three (3) times within a year, except for valid reasons.

(b) if the successful Bidder:

(i) fails to sign the contract in accordance with ITB Clause 32; or

(ii) fails to furnish performance security in accordance with ITB Clause 33.

19. **Format and Signing of Bids**

19.1. Bidders shall submit their bids through their duly authorized representative using the appropriate forms provided in Section VIII – Bidding Forms on or before the deadline specified in the ITB Clauses 21 in two (2) separate sealed bid envelopes, and which shall be submitted simultaneously. The first shall contain the technical component of the bid, including the eligibility requirements under ITB Clause 12.1, and the second shall contain the financial component of the bid.

19.2. Forms as mentioned in ITB Clause 19.1 must be completed without any alterations to their format, and no substitute form shall be accepted. All blank spaces shall be filled in with the information requested.

19.3. The Bidder shall prepare and submit an original of the first and second envelopes as described in ITB Clauses 12 and 13. In the event of any discrepancy between the original and the copies, the original shall prevail.

19.4. The bid, except for unamended printed literature, shall be signed, and each and every page thereof shall be initialed, by the duly authorized representative/s of the Bidder.

19.5. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the duly authorized representative/s of the Bidder.

20. **Sealing and Marking of Bids**

20.1. Bidders shall enclose their original eligibility and technical documents described in ITB Clause 12 in one sealed envelope marked “ORIGINAL - TECHNICAL COMPONENT”, and the original of their financial component in another sealed envelope marked “ORIGINAL - FINANCIAL COMPONENT”, sealing them all in an outer envelope marked “ORIGINAL BID”.

20.2. Each copy of the first and second envelopes shall be similarly sealed duly marking the inner envelopes as “COPY NO. ___ - TECHNICAL COMPONENT” and “COPY NO. ___ - FINANCIAL COMPONENT” and the outer envelope as “COPY NO. ___”, respectively. These envelopes containing the original and the copies shall then be enclosed in one single envelope.
20.3. The original and the number of copies of the Bid as indicated in the BDS shall be typed or written in indelible ink and shall be signed by the bidder or its duly authorized representative/s.

20.4. All envelopes shall:

(a) contain the name of the contract to be bid in capital letters;

(b) bear the name and address of the Bidder in capital letters;

(c) be addressed to the Procuring Entity's BAC in accordance with ITB Clause 1.1;

(d) bear the specific identification of this bidding process indicated in the ITB Clause 1.2; and

(e) bear a warning "DO NOT OPEN BEFORE..." the date and time for the opening of bids, in accordance with ITB Clause 21.

20.5. If bids are not sealed and marked as required, the Procuring Entity will assume no responsibility for the misplacement or premature opening of the bid.

D. Submission and Opening of Bids

21. Deadline for Submission of Bids

Bids must be received by the Procuring Entity’s BAC at the address and on or before the date and time indicated in the BDS.

22. Late Bids

Any bid submitted after the deadline for submission and receipt of bids prescribed by the Procuring Entity, pursuant to ITB Clause 21, shall be declared "Late" and shall not be accepted by the Procuring Entity.

23. Modification and Withdrawal of Bids

23.1. The Bidder may modify its bid after it has been submitted; provided that the modification is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids. The Bidder shall not be allowed to retrieve its original bid, but shall be allowed to submit another bid equally sealed, properly identified, linked to its original bid marked as “TECHNICAL MODIFICATION” or “FINANCIAL MODIFICATION” and stamped “received” by the BAC. Bid modifications received after the applicable deadline shall not be considered and shall be returned to the Bidder unopened.

23.2. A Bidder may, through a Letter of Withdrawal, withdraw its bid after it has been submitted, for valid and justifiable reason; provided that the Letter of Withdrawal is received by the Procuring Entity prior to the deadline prescribed for submission and receipt of bids.

23.3. Bids requested to be withdrawn in accordance with ITB Clause 23.1 shall be returned unopened to the Bidders. A Bidder may also express its intention not to participate in the bidding through a letter which should reach and be stamped by the BAC before the deadline for submission and receipt of bids. A Bidder that
withdraws its bid shall not be permitted to submit another bid, directly or indirectly, for the same contract.

23.4. No bid may be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Financial Bid Form. Withdrawal of a bid during this interval shall result in the forfeiture of the Bidder's bid security, pursuant to ITB Clause 18.4, and the imposition of administrative, civil and criminal sanctions as prescribed by RA 9184 and its IRR.

24. Opening and Preliminary Examination of Bids

24.1. The BAC shall open the first bid envelopes of Bidders in public as specified in the BDS to determine each Bidder's compliance with the documents prescribed in ITB Clause 12. For this purpose, the BAC shall check the submitted documents of each bidder against a checklist of required documents to ascertain if they are all present, using a non-discretionary "pass/fail" criterion. If a bidder submits the required document, it shall be rated "passed" for that particular requirement. In this regard, bids that fail to include any requirement or are incomplete or patently insufficient shall be considered as "failed". Otherwise, the BAC shall rate the said first bid envelope as "passed".

24.2. Unless otherwise specified in the BDS, immediately after determining compliance with the requirements in the first envelope, the BAC shall forthwith open the second bid envelope of each remaining eligible bidder whose first bid envelope was rated "passed". The second envelope of each complying bidder shall be opened within the same day. In case one or more of the requirements in the second envelope of a particular bid is missing, incomplete or patently insufficient, and/or if the submitted total bid price exceeds the ABC unless otherwise provided in ITB Clause 13.2, the BAC shall rate the bid concerned as "failed". Only bids that are determined to contain all the bid requirements for both components shall be rated "passed" and shall immediately be considered for evaluation and comparison.

24.3. Letters of withdrawal shall be read out and recorded during bid opening, and the envelope containing the corresponding withdrawn bid shall be returned to the Bidder unopened. If the withdrawing Bidder's representative is in attendance, the original bid and all copies thereof shall be returned to the representative during the bid opening. If the representative is not in attendance, the bid shall be returned unopened by registered mail. The Bidder may withdraw its bid prior to the deadline for the submission and receipt of bids, provided that the corresponding Letter of Withdrawal contains a valid authorization requesting for such withdrawal, subject to appropriate administrative sanctions.

24.4. If a Bidder has previously secured a certification from the Procuring Entity to the effect that it has previously submitted the above-enumerated Class "A" Documents, the said certification may be submitted in lieu of the requirements enumerated in ITB Clause 12.1(a), items (i) to (v).

24.5. In the case of an eligible foreign Bidder as described in ITB Clause 5, the Class "A" Documents described in ITB Clause 12.1(a) may be substituted with the appropriate equivalent documents, if any, issued by the country of the foreign Bidder concerned.
24.6. Each partner of a joint venture agreement shall likewise submit the requirements in ITB Clauses 12.1(a)(i) and 12.1(a)(ii). Submission of documents required under ITB Clauses 12.1(a)(iii) to 12.1(a)(v) by any of the joint venture partners constitutes compliance.

24.7. The Procuring Entity shall prepare the minutes of the proceedings of the bid opening that shall include, as a minimum: (a) names of Bidders, their bid price, bid security, findings of preliminary examination; and (b) attendance sheet. The BAC members shall sign the abstract of bids as read.

E. Evaluation and Comparison of Bids

25. Process to be Confidential

25.1. Members of the BAC, including its staff and personnel, as well as its Secretariat and TWG, are prohibited from making or accepting any kind of communication with any bidder regarding the evaluation of their bids until the issuance of the Notice of Award, unless otherwise allowed in the case of ITB Clause 26.

25.2. Any effort by a bidder to influence the Procuring Entity in the Procuring Entity's decision in respect of bid evaluation, bid comparison or contract award will result in the rejection of the Bidder's bid.

26. Clarification of Bids

To assist in the evaluation, comparison, and post-qualification of the bids, the Procuring Entity may ask in writing any Bidder for a clarification of its bid. All responses to requests for clarification shall be in writing. Any clarification submitted by a Bidder in respect to its bid and that is not in response to a request by the Procuring Entity shall not be considered.

27. Domestic Preference

27.1. Unless otherwise stated in the BDS, the Procuring Entity will grant a margin of preference for the purpose of comparison of bids in accordance with the following:

(a) The preference shall be applied when (i) the lowest Foreign Bid is lower than the lowest bid offered by a Domestic Bidder, or (ii) the lowest bid offered by a non-Philippine national is lower than the lowest bid offered by a Domestic Entity.

(b) For evaluation purposes, the lowest Foreign Bid or the bid offered by a non-Philippine national shall be increased by fifteen percent (15%).

(c) In the event that (i) the lowest bid offered by a Domestic Entity does not exceed the lowest Foreign Bid as increased, or (ii) the lowest bid offered by a non-Philippine national as increased, then the Procuring Entity shall award the contract to the Domestic Bidder/Entity at the amount of the lowest Foreign Bid or the bid offered by a non-Philippine national, as the case may be.

(d) If the Domestic Entity/Bidder refuses to accept the award of contract at the amount of the Foreign Bid or bid offered by a non-Philippine national within two (2) calendar days from receipt of written advice from the
BAC, the Procuring Entity shall award to the bidder offering the Foreign Bid or the non-Philippine national, as the case may be, subject to post-qualification and submission of all the documentary requirements under these Bidding Documents.

27.2. A Bidder may be granted preference as a Domestic Entity subject to the certification from the DTI (in case of sole proprietorships), SEC (in case of partnerships and corporations), or CDA (in case of cooperatives) that the (a) sole proprietor is a citizen of the Philippines or the partnership, corporation, cooperative, or association is duly organized under the laws of the Philippines with at least seventy five percent (75%) of its interest or outstanding capital stock belonging to citizens of the Philippines, (b) habitually established in business and habitually engaged in the manufacture or sale of the merchandise covered by his bid, and (c) the business has been in existence for at least five (5) consecutive years prior to the advertisement and/or posting of the Invitation to Bid for this Project.

27.3. A Bidder may be granted preference as a Domestic Bidder subject to the certification from the DTI that the Bidder is offering unmanufactured articles, materials or supplies of the growth or production of the Philippines, or manufactured articles, materials, or supplies manufactured or to be manufactured in the Philippines substantially from articles, materials, or supplies of the growth, production, or manufacture, as the case may be, of the Philippines.

28. Detailed Evaluation and Comparison of Bids

28.1. The Procuring Entity will undertake the detailed evaluation and comparison of bids which have passed the opening and preliminary examination of bids, pursuant to ITB Clause 24, in order to determine the Lowest Calculated Bid.

28.2. The Lowest Calculated Bid shall be determined in two steps:

(a) The detailed evaluation of the financial component of the bids, to establish the correct calculated prices of the bids; and

(b) The ranking of the total bid prices as so calculated from the lowest to the highest. The bid with the lowest price shall be identified as the Lowest Calculated Bid.

28.3. The Procuring Entity's BAC shall immediately conduct a detailed evaluation of all bids rated "passed," using non-discretionary pass/fail criteria. Unless otherwise specified in the BDS, the BAC shall consider the following in the evaluation of bids:

(a) Completeness of the bid. Unless the ITB specifically allows partial bids, bids not addressing or providing all of the required items in the Schedule of Requirements including, where applicable, bill of quantities, shall be considered non-responsive and, thus, automatically disqualified. In this regard, where a required item is provided, but no price is indicated, the same shall be considered non-responsive, but specifying a "0" (zero) for the said item would mean that it is being offered for free to the Procuring Entity; and
(b) **Arithmetical corrections.** Consider computational errors and omissions to enable proper comparison of all eligible bids. It may also consider bid modifications, if allowed in the BDS. Any adjustment shall be calculated in monetary terms to determine the calculated prices.

28.4. Based on the detailed evaluation of bids, those that comply with the above-mentioned requirements shall be ranked in the ascending order of their total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, to identify the Lowest Calculated Bid. Total calculated bid prices, as evaluated and corrected for computational errors, discounts and other modifications, which exceed the ABC shall not be considered, unless otherwise indicated in the BDS.

28.5. The Procuring Entity’s evaluation of bids shall only be based on the bid price quoted in the Financial Bid Form.

28.6. Bids shall be evaluated on an equal footing to ensure fair competition. For this purpose, all bidders shall be required to include in their bids the cost of all taxes, such as, but not limited to, value added tax (VAT), income tax, local taxes, and other fiscal levies and duties which shall be itemized in the bid form and reflected in the detailed estimates. Such bids, including said taxes, shall be the basis for bid evaluation and comparison.

29. **Post-Qualification**

29.1. The Procuring Entity shall determine to its satisfaction whether the Bidder that is evaluated as having submitted the Lowest Calculated Bid (LCB) complies with and is responsive to all the requirements and conditions specified in ITB Clauses 5, 12, and 13.

29.2. Within a non-extendible period of three (3) calendar days from receipt by the bidder of the notice from the BAC that it submitted the LCB, the Bidder shall submit the following documentary requirements:

   (a) Latest income and business tax returns in the form specified in the BDS;
   
   (b) Certificate of PhilGEPS Registration; and
   
   (c) Other appropriate licenses and permits required by law and stated in the BDS.

Failure of the Bidder declared as Lowest Calculated Bid to duly submit the requirements under this Clause or a finding against the veracity of such shall be ground for forfeiture of the bid security and disqualification of the Bidder for award.

29.3. The determination shall be based upon an examination of the documentary evidence of the Bidder’s qualifications submitted pursuant to ITB Clauses 12 and 13, as well as other information as the Procuring Entity deems necessary and appropriate, using a non-discretionary “pass/fail” criterion.

29.4. If the BAC determines that the Bidder with the Lowest Calculated Bid passes all the criteria for post-qualification, it shall declare the said bid as the Lowest Calculated Responsive Bid, and recommend to the Head of the Procuring Entity
the award of contract to the said Bidder at its submitted price or its calculated bid price, whichever is lower.

29.5. A negative determination shall result in rejection of the Bidder's Bid, in which event the Procuring Entity shall proceed to the next Lowest Calculated Bid to make a similar determination of that Bidder's capabilities to perform satisfactorily. If the second Bidder, however, fails the post qualification, the procedure for post qualification shall be repeated for the Bidder with the next Lowest Calculated Bid, and so on until the Lowest Calculated Responsive Bid is determined for contract award.

29.6. Within a period not exceeding seven (7) calendar days from the date of receipt of the recommendation of the BAC, the Head of the Procuring Entity shall approve or disapprove the said recommendation. In the case of GOCCs and GFI, the period provided herein shall be fifteen (15) calendar days.

30. **Reservation Clause**

30.1. Notwithstanding the eligibility or post-qualification of a Bidder, the Procuring Entity concerned reserves the right to review its qualifications at any stage of the procurement process if it has reasonable grounds to believe that a misrepresentation has been made by the said Bidder, or that there has been a change in the Bidder's capability to undertake the project from the time it submitted its eligibility requirements. Should such review uncover any misrepresentation made in the eligibility and bidding requirements, statements or documents, or any changes in the situation of the Bidder which will affect its capability to undertake the project so that it fails the preset eligibility or bid evaluation criteria, the Procuring Entity shall consider the said Bidder as ineligible and shall disqualify it from submitting a bid or from obtaining an award or contract.

30.2. Based on the following grounds, the Procuring Entity reserves the right to reject any and all bids, declare a failure of bidding at any time prior to the contract award, or not to award the contract, without thereby incurring any liability, and make no assurance that a contract shall be entered into as a result of the bidding:

(a) If there is *prima facie* evidence of collusion between appropriate public officers or employees of the Procuring Entity, or between the BAC and any of the Bidders, or if the collusion is between or among the bidders themselves, or between a Bidder and a third party, including any act which restricts, suppresses or nullifies or tends to restrict, suppress or nullify competition;

(b) If the Procuring Entity's BAC is found to have failed in following the prescribed bidding procedures; or

(c) For any justifiable and reasonable ground where the award of the contract will not redound to the benefit of the GOP as follows:

(i) If the physical and economic conditions have significantly changed so as to render the project no longer economically, financially or technically feasible as determined by the head of the procuring entity;
Instructions to Bidders

(ii) If the project is no longer necessary as determined by the head of the procuring entity; and

(iii) If the source of funds for the project has been withheld or reduced through no fault of the Procuring Entity.

30.3. In addition, the Procuring Entity may likewise declare a failure of bidding when:

(a) No bids are received;

(b) All prospective Bidders are declared ineligible;

(c) All bids fail to comply with all the bid requirements or fail post-qualification; or

(d) The Bidder with the Lowest Calculated Responsive Bid (LCRB) refuses, without justifiable cause to accept the award of contract, and no award is made.

F. Award of Contract

31. Contract Award

31.1. Subject to ITB Clause 29, the Procuring Entity shall award the contract to the Bidder whose bid has been determined to be the LCRB.

31.2. Prior to the expiration of the period of bid validity, the Procuring Entity shall notify the successful Bidder in writing that its bid has been accepted, through a Notice of Award received personally or sent by registered mail or electronically, receipt of which must be confirmed in writing within two (2) days by the Bidder with the LCRB and submitted personally or sent by registered mail or electronically to the Procuring Entity.

31.3. Notwithstanding the issuance of the Notice of Award, award of contract shall be subject to the following conditions:

(a) Submission of the valid JVA, if applicable, within ten (10) calendar days from receipt by the Bidder of the notice from the BAC that the Bidder has the LCRB;

(b) Posting of the performance security in accordance with ITB Clause 33;

(c) Signing of the contract as provided in ITB Clause 32; and

(d) Approval by higher authority, if required.

31.4. At the time of contract award, the Procuring Entity shall not increase or decrease the quantity of goods originally specified in Section VI-Schedule of Requirements.

32. Signing of the Contract

32.1. At the same time as the Procuring Entity notifies the successful Bidder that its bid has been accepted, the Procuring Entity shall send the Contract Form to the
Bidder, which contract has been provided in the Bidding Documents, incorporating therein all agreements between the parties.

32.2. Within ten (10) calendar days from receipt of the Notice of Award, the successful Bidder shall post the required performance security and sign and date the contract and return it to the Procuring Entity.

32.3. The Procuring Entity shall enter into contract with the successful Bidder within the same ten (10) calendar day period provided that all the documentary requirements are complied with.

32.4. The following documents shall form part of the contract:

(a) Contract Agreement;

(b) Bidding Documents;

(c) Winning bidder's bid, including the Technical and Financial Proposals, and all other documents/statements submitted;

(d) Performance Security;

(e) Credit line in accordance with ITB Clause 0, if applicable;

(f) Notice of Award of Contract; and

(g) Other contract documents that may be required by existing laws and/or specified in the BDS.

33. Performance Security

33.1. To guarantee the faithful performance by the winning Bidder of its obligations under the contract, it shall post a performance security within a maximum period of ten (10) calendar days from the receipt of the Notice of Award from the Procuring Entity and in no case later than the signing of the contract.

33.2. The performance security shall be denominated in Philippine Pesos and posted in favor of the Procuring Entity in an amount equal to the percentage of the total contract price in accordance with the following schedule:

| Form of Performance Security                                                                 | Amount of Performance Security  
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Cash or cashier's/manager's check issued by a Universal or Commercial Bank.</td>
<td>Equal to Percentage of the Total Contract Price</td>
</tr>
<tr>
<td>(b) Bank draft/guarantee or irrevocable letter of credit issued by a Universal or Commercial Bank: Provided, however, that it shall be confirmed or authenticated by a Universal or Commercial Bank, if issued by a foreign bank.</td>
<td>Five percent (5%)</td>
</tr>
<tr>
<td>(c) Surety bond callable upon</td>
<td>Thirty percent (30%)</td>
</tr>
<tr>
<td>demand issued by a surety or insurance company duly certified by the Insurance Commission as authorized to issue such security; and/or (d) Any combination of the foregoing</td>
<td>Proportionate to share of form with respect to total amount of security</td>
</tr>
</tbody>
</table>

33.3. Failure of the successful Bidder to comply with the above-mentioned requirement shall constitute sufficient ground for the annulment of the award and forfeiture of the bid security, in which event the Procuring Entity shall initiate and complete the post qualification of the second Lowest Calculated Bid. The procedure shall be repeated until the LCRB is identified and selected for contract award. However if no Bidder passed post-qualification, the BAC shall declare the bidding a failure and conduct a re-bidding with re-advertisement.

34. **Notice to Proceed**

34.1. Within three (3) calendar days from the date of approval of the contract by the appropriate government approving authority, the Procuring Entity shall issue its Notice to Proceed to the Bidder.

34.2. The contract effectivity date shall be provided in the Notice to Proceed by the Procuring Entity, which date shall not be later than seven (7) calendar days from the issuance of the Notice to Proceed.

35. **Protest Mechanism**

Decision of the Procuring Entity at any stage of the procurement process may be questioned in accordance with Section 55 of the Revised Implementing Rules and Regulations of Republic Act 9184.
### SECTION III
#### BID DATA SHEETS

<table>
<thead>
<tr>
<th>ITB Clause</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>The Procuring Entity is <strong>Batangas State University</strong></td>
</tr>
<tr>
<td>1.2</td>
<td>Not applicable</td>
</tr>
<tr>
<td>2.1</td>
<td>The Funding Source is:</td>
</tr>
<tr>
<td></td>
<td>The Government of the Philippines (GOP) in the amount of <strong>Six Million Eight Hundred Thousand Pesos</strong> (Php 6,800,000.00).</td>
</tr>
<tr>
<td></td>
<td>The name of the Project is <strong>Procurement of Equipment (Spectroscopy) for the Upgrading of Research Laboratory</strong>.</td>
</tr>
<tr>
<td></td>
<td>The identification number of the Project is BSU-Project No. 2015-___</td>
</tr>
<tr>
<td>3.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>5.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>5.2</td>
<td>Bidding is restricted to eligible bidders as defined in ITB Clause 5.1.</td>
</tr>
<tr>
<td>5.4</td>
<td>Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a single contract that is similar to this Project, equivalent to at least fifty percent (50%) of the ABC</td>
</tr>
<tr>
<td>7.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>8.1</td>
<td>Subcontracting is not allowed.</td>
</tr>
<tr>
<td>8.2</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>9.1</td>
<td>The Procuring Entity will hold a pre-bid conference for this Project on <strong>January 30, 2015, 1:00 PM</strong>.</td>
</tr>
<tr>
<td></td>
<td><strong>BAC Office</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Ground Floor, ITE Building</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Batangas State University, GPB Campus I</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Rizal Avenue Extension, Batangas City</strong></td>
</tr>
<tr>
<td>10.1</td>
<td>The Procuring Entity’s address is:</td>
</tr>
<tr>
<td></td>
<td><strong>2nd Floor, Administration Building,</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Batangas State University, GPB Campus I</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Rizal Avenue Extension, Batangas City</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Dr. Jessie A. Montalbo</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Tel No.: (043) 723-0339 local 102</strong></td>
</tr>
<tr>
<td></td>
<td><strong>E-mail: <a href="mailto:jesmon99@yahoo.com">jesmon99@yahoo.com</a></strong></td>
</tr>
<tr>
<td>12.1(a)</td>
<td>In addition to the eligibility and technical documents stated in the ITB</td>
</tr>
<tr>
<td>Clause</td>
<td>Bid Data Sheets</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Clause, bidders should submit tax returns filed through Electronic Filing and Payment System (EFPS)</td>
<td>12.1(a)(i) No other acceptable proof of registration is recognized.</td>
</tr>
<tr>
<td>12.1(a)(iii) The statement “covers all ongoing and completed government and private contracts” shall include all such contracts within <strong>three (3) years</strong> prior to the deadline for the submission and receipt of bids.</td>
<td>12.1(b) No additional requirements.</td>
</tr>
<tr>
<td>13.1 No additional requirements.</td>
<td>13.1(b) No further instructions.</td>
</tr>
<tr>
<td>13.2 The Total ABC is <strong>Six Million Eight Hundred Thousand Pesos</strong> (Php 6,800,000.00). Any bid with a financial component exceeding this amount shall not be accepted.</td>
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</tr>
<tr>
<td>15.4(a)(iii) No incidental services are required.</td>
<td>15.4(b) Not applicable</td>
</tr>
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<td>16.1(b) The Bid prices for Goods supplied from outside of the Philippines shall be quoted in Philippine Pesos.</td>
</tr>
<tr>
<td>16.3 Not applicable</td>
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</tr>
<tr>
<td>17.1 Bid validity period is <strong>One Hundred Twenty (120) calendar days</strong> from the date of opening of bids.</td>
<td>18.1 The bid security shall be in the following amount:</td>
</tr>
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<tr>
<td>1. Two (2%) of the ABC, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit;</td>
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</tr>
<tr>
<td>2. Five (5%) of the ABC if bid security is in Surety Bond; or</td>
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</tr>
<tr>
<td>3. <strong>Any combination of the foregoing proportionate to the share of form with respect to total amount of security.</strong></td>
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</tr>
<tr>
<td>4. <strong>Bid Securing Declaration (Use BatStateU Goods Form No. 5c)</strong></td>
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<tr>
<td>20.3 Each Bidder shall submit <strong>one (1)</strong> original and <strong>two (2)</strong> copies of the first and second components of its bid.</td>
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</tr>
<tr>
<td>21 The address for submission of bids is</td>
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</tr>
<tr>
<td>BAC Office</td>
<td>BAC Office</td>
</tr>
<tr>
<td>Ground Floor, ITE Building</td>
<td>Ground Floor, ITE Building</td>
</tr>
<tr>
<td>Batangas State University, GPB Campus I</td>
<td>Batangas State University, GPB Campus I</td>
</tr>
<tr>
<td>Rizal Avenue Extension, Batangas City</td>
<td>Rizal Avenue Extension, Batangas City</td>
</tr>
</tbody>
</table>
The deadline for submission of bids is **1:00 to 2:00 PM, February 18, 2015.**

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.1</td>
<td>The place of bid opening is BAC Office Ground Floor, ITE Building Batangas State University, GPB Campus I Rizal Avenue Extension, Batangas City The date and time of bid opening is <strong>2:00 PM, February 18, 2015.</strong></td>
</tr>
<tr>
<td>24.2</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>27.1</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>28.3</td>
<td>The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award. <strong>Bid modification is not allowed.</strong></td>
</tr>
<tr>
<td>28.3(b)</td>
<td><strong>Bid modification is not allowed.</strong></td>
</tr>
<tr>
<td>28.4</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>29.2(a)</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>29.2(b)</td>
<td><strong>Not applicable</strong></td>
</tr>
<tr>
<td>29.2(d)</td>
<td><strong>No other licenses required.</strong></td>
</tr>
<tr>
<td>32.4(g)</td>
<td><strong>No other contract documents needed.</strong></td>
</tr>
</tbody>
</table>
# GENERAL CONDITIONS OF THE CONTRACT

## TABLE OF CONTENTS

1. **DEFINITIONS** ............................................................................................................ 3
2. **CORRUPT, FRAUDULENT, COLLUSIVE, AND COERCIVE PRACTICES** .............. 4
3. **INSPECTION AND AUDIT BY THE FUNDING SOURCE** ...................................... 5
4. **GOVERNING LAW AND LANGUAGE** ....................................................................... 5
5. **NOTICES** .................................................................................................................. 5
6. **SCOPE OF CONTRACT** ............................................................................................ 5
7. **SUBCONTRACTING** .................................................................................................. 6
8. **PROCURING ENTITY’S RESPONSIBILITIES** ............................................................. 6
9. **PRICES** .................................................................................................................... 6
10. **PAYMENT** .............................................................................................................. 6
11. **ADVANCE PAYMENT AND TERMS OF PAYMENT** ............................................. 7
12. **TAXES AND DUTIES** ............................................................................................ 7
13. **PERFORMANCE SECURITY** .................................................................................. 8
14. **USE OF CONTRACT DOCUMENTS AND INFORMATION** ..................................... 8
15. **STANDARDS** ......................................................................................................... 8
16. **INSPECTION AND TESTS** .................................................................................... 8
17. **WARRANTY** .......................................................................................................... 9
18. **DELAYS IN THE SUPPLIER’S PERFORMANCE** ................................................... 10
19. **LIQUIDATED DAMAGES** ...................................................................................... 10
20. **SETTLEMENT OF DISPUTES** .............................................................................. 10
21. **LIABILITY OF THE SUPPLIER** ............................................................................ 11
22. **FORCE MAJEURE** ................................................................................................ 11
23. **TERMINATION FOR DEFAULT** ............................................................................ 12
24. **TERMINATION FOR INSOLVENCY** ..................................................................... 12
25. **TERMINATION FOR CONVENIENCE** .................................................................. 12
26. **TERMINATION FOR UNLAWFUL ACTS** ............................................................... 13
27. PROCEDURES FOR TERMINATION OF CONTRACTS .............................................13
28. ASSIGNMENT OF RIGHTS ..............................................................................14
29. CONTRACT AMENDMENT .............................................................................15
30. APPLICATION ................................................................................................15
1. **Definitions**

1.1. In this Contract, the following terms shall be interpreted as indicated:

(a) “The Contract” means the agreement entered into between the Procuring Entity and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

(b) “The Contract Price” means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations.

(c) “The Goods” means all of the supplies, equipment, machinery, spare parts, other materials and/or general support services which the Supplier is required to provide to the Procuring Entity under the Contract.

(d) “The Services” means those services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, and other such obligations of the Supplier covered under the Contract.

(e) “GCC” means the General Conditions of Contract contained in this Section.

(f) “SCC” means the Special Conditions of Contract.

(g) “The Procuring Entity” means the organization purchasing the Goods, as named in the SCC.

(h) “The Procuring Entity’s country” is the Philippines.

(i) “The Supplier” means the individual contractor, manufacturer distributor, or firm supplying/manufacturing the Goods and Services under this Contract and named in the SCC.

(j) The “Funding Source” means the organization named in the SCC.

(k) “The Project Site,” where applicable, means the place or places named in the SCC.

(l) “Day” means calendar day.

(m) The “Effective Date” of the contract will be the date of receipt by the Supplier of the Notice to Proceed or the date provided in the Notice to Proceed. Performance of all obligations shall be reckoned from the Effective Date of the Contract.

(n) “Verified Report” refers to the report submitted by the Implementing Unit to the Head of the Procuring Entity setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.
2. Corrupt, Fraudulent, Collusive, and Coercive Practices

2.1. Unless otherwise provided in the SCC, the Procuring Entity as well as the bidders, contractors, or suppliers shall observe the highest standard of ethics during the procurement and execution of this Contract. In pursuance of this policy, the Procuring Entity:

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) "corrupt practice" means behavior on the part of officials in the public or private sectors by which they improperly and unlawfully enrich themselves, others, or induce others to do so, by misusing the position in which they are placed, and it includes the offering, giving, receiving, or soliciting of anything of value to influence the action of any such official in the procurement process or in contract execution; entering, on behalf of the Government, into any contract or transaction manifestly and grossly disadvantageous to the same, whether or not the public officer profited or will profit thereby, and similar acts as provided in Republic Act 3019.

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Procuring Entity, and includes collusive practices among Bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the Procuring Entity of the benefits of free and open competition.

(iii) "collusive practices" means a scheme or arrangement between two or more Bidders, with or without the knowledge of the Procuring Entity, designed to establish bid prices at artificial, non-competitive levels.

(iv) "coercive practices" means harming or threatening to harm, directly or indirectly, persons, or their property to influence their participation in a procurement process, or affect the execution of a contract;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to an administrative proceedings or investigation or making false statements to investigators in order to materially impede an administrative proceedings or investigation of the Procuring Entity or any foreign government/foreign or international financing institution into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the administrative proceedings or
investigation or from pursuing such proceedings or investigation; or

(bb) acts intended to materially impede the exercise of the inspection and audit rights of the Procuring Entity or any foreign government/foreign or international financing institution herein.

(b) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in any of the practices mentioned in this Clause for purposes of competing for the contract.

2.2. Further the Funding Source, Borrower or Procuring Entity, as appropriate, will seek to impose the maximum civil, administrative and/or criminal penalties available under the applicable law on individuals and organizations deemed to be involved with any of the practices mentioned in GCC Clause 2.1(a).

3. Inspection and Audit by the Funding Source

The Supplier shall permit the Funding Source to inspect the Supplier’s accounts and records relating to the performance of the Supplier and to have them audited by auditors appointed by the Funding Source, if so required by the Funding Source.

4. Governing Law and Language

4.1. This Contract shall be interpreted in accordance with the laws of the Republic of the Philippines.

4.2. This Contract has been executed in the English language, which shall be the binding and controlling language for all matters relating to the meaning or interpretation of this Contract. All correspondence and other documents pertaining to this Contract exchanged by the parties shall be written in English.

5. Notices

5.1. Any notice, request, or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request, or consent shall be deemed to have been given or made when received by the concerned party, either in person or through an authorized representative of the Party to whom the communication is addressed, or when sent by registered mail, telex, telegram, or facsimile to such Party at the address specified in the SCC, which shall be effective when delivered and duly received or on the notice’s effective date, whichever is later.

5.2. A Party may change its address for notice hereunder by giving the other Party notice of such change pursuant to the provisions listed in the SCC for GCC Clause 5.1.

6. Scope of Contract

6.1. The GOODS and Related Services to be provided shall be as specified in Section VI-Schedule of Requirements.
6.2. 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. Any additional requirements for the completion of this Contract shall be provided in the SCC.

7. **Subcontracting**

7.1. Subcontracting of any portion of the Goods, if allowed in the BDS, does not relieve the Supplier of any liability or obligation under this Contract. The Supplier will be responsible for the acts, defaults, and negligence of any subcontractor, its agents, servants or workmen as fully as if these were the Supplier’s own acts, defaults, or negligence, or those of its agents, servants or workmen.

7.2. Subcontractors disclosed and identified during the bidding may be changed during the implementation of this Contract, subject to compliance with the required qualifications and the approval of the Procuring Entity.

8. **Procuring Entity’s Responsibilities**

8.1. Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals, import, and other licenses from local public authorities, the Procuring Entity shall, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner.

8.2. The Procuring Entity shall pay all costs involved in the performance of its responsibilities in accordance with GCC Clause 6.

9. **Prices**

9.1. For the given scope of work in this Contract as awarded, all bid prices are considered fixed prices, and therefore not subject to price escalation during contract implementation, except under extraordinary circumstances and upon prior approval of the GPPB in accordance with Section 61 of R.A. 9184 and its IRR or except as provided in this Clause.

9.2. Prices charged by the Supplier for Goods delivered and/or services performed under this Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any change in price resulting from a Change Order issued in accordance with GCC Clause 12.18.

10. **Payment**

10.1. Payments shall be made only upon a certification by the Head of the Procuring Entity to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. Except with the prior approval of the President no payment shall be made for services not yet rendered or for supplies and materials not yet delivered under this Contract. Ten percent (10%) of the amount of each payment shall be retained by the Procuring Entity to cover the Supplier’s warranty obligations under this Contract as described in GCC Clause 12.6.
10.2. The Supplier's request(s) for payment shall be made to the Procuring Entity in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and/or Services performed, and by documents submitted pursuant to the SCC provision for GCC Clause 6.2, and upon fulfillment of other obligations stipulated in this Contract.

10.3. Pursuant to GCC Clause 10.2, payments shall be made promptly by the Procuring Entity, but in no case later than sixty (60) days after submission of an invoice or claim by the Supplier.

10.4. Unless otherwise provided in the SCC, the currency in which payment is made to the Supplier under this Contract shall be in Philippine Pesos.

11. Advance Payment and Terms of Payment

11.1. Advance payment shall be made only after prior approval of the President, and shall not exceed fifteen percent (15%) of the Contract amount, unless otherwise directed by the President or in cases allowed under Annex “D” of RA 9184.

11.1. For Goods supplied from abroad, the terms of payment shall be as follows:

(a) On Contract Signature: Fifteen percent (15%) of the Contract Price shall be paid within sixty (60) days from signing of the Contract and upon submission of a claim and a bank guarantee for the equivalent amount valid until the Goods are delivered and in the form provided in Section VIII. Bidding Forms.

(b) On Delivery: Sixty Five Percent (65%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of receipt of the Goods and upon submission of the documents (i) through (vi) specified in the SCC provision on Delivery and Documents.

(c) On Acceptance: The remaining twenty percent (20%) of the Contract Price shall be paid to the Supplier within sixty (60) days after the date of submission of the acceptance and inspection certificate for the respective delivery issued by the Procuring Entity’s authorized representative. In the event that no inspection or acceptance certificate is issued by the Procuring Entity’s authorized representative within forty five (45) days of the date shown on the delivery receipt the Supplier shall have the right to claim payment of the remaining twenty percent (20%) subject to the Procuring Entity’s own verification of the reason(s) for the failure to issue documents (vii) and (viii) as described in the SCC provision on Delivery and Documents.

11.2. All progress payments shall first be charged against the advance payment until the latter has been fully exhausted.

12. Taxes and Duties

The Supplier, whether local or foreign, shall be entirely responsible for all the necessary taxes, stamp duties, license fees, and other such levies imposed for the completion of this Contract.
13. Performance Security

13.1 Within ten (10) calendar days from receipt of the Notice of Award 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 the ITB Clause 33.2.

13.2 The performance security posted in favor of the Procuring Entity shall be forfeited in the event it is established that the winning bidder is in default in any of its obligations under the contract.

13.3 The performance security shall remain valid until issuance by the Procuring Entity of the Certificate of Final Acceptance.

13.4 The performance security may be released by the Procuring Entity and returned to the Supplier after the issuance of the Certificate of Final Acceptance subject to the following conditions:

(a) There are no pending claims against the Supplier or the surety company filed by the Procuring Entity;

(b) The Supplier has no pending claims for labor and materials filed against it; and

(c) Other terms specified in the SCC.

13.5 In case of a reduction of the contract value, the Procuring Entity shall allow a proportional reduction in the original performance security, provided that any such reduction is more than ten percent (10%) and that the aggregate of such reductions is not more than fifty percent (50%) of the original performance security.

14. Use of Contract Documents and Information

14.1.1 The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Procuring Entity’s prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Procuring Entity. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.

14.1.2 Any document, other than this Contract itself, enumerated in GCC Clause 12.3.1 shall remain the property of the Procuring Entity and shall be returned (all copies) to the Procuring Entity on completion of the Supplier’s performance under this Contract if so required by the Procuring Entity.

15. Standards

The Goods provided under this Contract shall conform to the standards mentioned in the Section VII-Terms of Reference; and, when no applicable standard is mentioned, to the authoritative standards appropriate to the Goods’ country of origin. Such standards shall be the latest issued by the institution concerned.

16. Inspection and Tests
16.1.1 The Procuring Entity or its representative shall have the right to inspect and/or test the Goods to confirm their conformity to the Contract specifications at no extra cost to the Procuring Entity. The SCC and 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.

16.1.2 If applicable, the inspections and tests may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery, and/or at the goods' final destination. If conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Procuring Entity. The Supplier shall provide the Procuring Entity with results of such inspections and tests.

16.1.3 The Procuring Entity or its designated representative shall be entitled to attend the tests and/or inspections referred to in this Clause provided that the Procuring Entity shall bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

16.1.4 The Procuring Entity may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Procuring Entity, and shall repeat the test and/or inspection, at no cost to the Procuring Entity, upon giving a notice pursuant to GCC Clause 5.

16.1.5 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Procuring Entity or its representative, shall release the Supplier from any warranties or other obligations under this Contract.

17. Warranty

17.1.1 The Supplier warrants that the Goods supplied under the Contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the technical specifications required by the Procuring Entity provides otherwise.

17.1.2 The Supplier further warrants that all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.

17.1.3 In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier for a minimum period specified in the SCC. The obligation for the warranty shall be covered by, at the Supplier’s option, either retention money in an amount equivalent to at least ten percent (10%) of the final payment, or a special bank guarantee equivalent to at least ten percent (10%) of the Contract Price or other such amount if so specified in the SCC. The said amounts shall only be released after the lapse of the warranty period specified in the SCC; provided, however, that the Supplies delivered are
free from patent and latent defects and all the conditions imposed under this Contract have been fully met.

17.1.4 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, within the period specified in the SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the Procuring Entity.

17.1.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in GCC Clause 12.6.4, the Procuring Entity may proceed to take such remedial action as may be necessary, at the Supplier’s risk and expense and without prejudice to any other rights which the Procuring Entity may have against the Supplier under the Contract and under the applicable law.

18. Delays in the Supplier’s Performance

18.1 Delivery of the Goods and/or performance of Services shall be made by the Supplier in accordance with the time schedule prescribed by the Procuring Entity in Section VI – Schedule of Requirements.

18.2 If at any time during the performance of this Contract, the Supplier or its Subcontractor(s) should encounter conditions impeding timely delivery of the Goods and/or performance of Services, the Supplier shall promptly notify the Procuring Entity in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier’s notice, and upon causes provided for under GCC Clause 12.11, the Procuring Entity shall evaluate the situation and may extend the Supplier’s time for performance, in which case the extension shall be ratified by the parties by amendment of Contract.

18.3 Except as provided under GCC Clause 12.11, a delay by the Supplier in the performance of its obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 12.8, unless an extension of time is agreed upon pursuant to GCC Clause 12.18 without the application of liquidated damages.

19. Liquidated Damages

Subject to GCC Clauses 12.7 and 12.11, if the Supplier fails to satisfactorily deliver any or all of the Goods and/or to perform the Services within the period(s) specified in this Contract inclusive of duly granted time extensions if any, the Procuring Entity shall, without prejudice to its other remedies under this Contract and under the applicable law, deduct from the Contract Price, as liquidated damages, the applicable rate of one tenth (1/10) of one (1) percent of the cost of the unperformed portion for every day of delay until actual delivery or performance. The maximum deduction shall be ten percent (10%) of the amount of contract. Once the maximum is reached, the Procuring Entity shall rescind the Contract pursuant to GCC Clause 12.12, without prejudice to other courses of action and remedies open to it.

20. Settlement of Disputes

20.1 If any dispute or difference of any kind whatsoever shall arise between the Procuring Entity and the Supplier in connection with or arising out of this
20.2 If after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Procuring Entity or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

20.3 Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under this Contract.

20.4 In the case of a dispute between the Procuring Entity and the Supplier, the dispute shall be resolved in accordance with Republic Act 9285 ("R.A. 9285"), otherwise known as the “Alternative Dispute Resolution Act of 2004.”

20.5 Notwithstanding any reference to arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and the Procuring Entity shall pay the Supplier any monies due the Supplier.

21. **Liability of the Supplier**

21.1 The Supplier’s liability under this Contract shall be as provided by the laws of the Republic of the Philippines, subject to additional provisions, if any, set forth in the **SCC**.

21.2 Except in cases of criminal negligence or willful misconduct, and in the case of infringement of patent rights, if applicable, the aggregate liability of the Supplier to the Procuring Entity shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

22. **Force Majeure**

22.1 The Supplier shall not be liable for forfeiture of its performance security, liquidated damages, or termination for default if and to the extent that the Supplier’s delay in performance or other failure to perform its obligations under the Contract is the result of a *force majeure*.

22.2 For purposes of this Contract the terms "*force majeure*" and "fortuitous event" may be used interchangeably. In this regard, a fortuitous event or *force majeure* shall be interpreted to mean an event which the Contractor could not have foreseen, or which though foreseen, was inevitable. It shall not include ordinary unfavorable weather conditions; and any other cause the effects of which could have been avoided with the exercise of reasonable diligence by the Contractor. Such events may include, but not limited to, acts of the Procuring Entity in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
22.3 If a force majeure situation arises, the Supplier shall promptly notify the Procuring Entity in writing of such condition and the cause thereof. Unless otherwise directed by the Procuring Entity in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure.

23. Termination for Default

23.1 The Procuring Entity shall terminate this Contract for default when any of the following conditions attends its implementation:

(a) Outside of force majeure, the Supplier fails to deliver or perform any or all of the Goods within the period(s) specified in the contract, or within any extension thereof granted by the Procuring Entity pursuant to a request made by the Supplier prior to the delay, and such failure amounts to at least ten percent (10%) of the contract price;

(b) As a result of force majeure, the Supplier is unable to deliver or perform any or all of the Goods, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Procuring Entity stating that the circumstance of force majeure is deemed to have ceased; or

(c) The Supplier fails to perform any other obligation under the Contract.

23.2 In the event the Procuring Entity terminates this Contract in whole or in part, for any of the reasons provided under GCC Clauses 12.12 to 12.15, the Procuring Entity may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the Procuring Entity for any excess costs for such similar Goods or Services. However, the Supplier shall continue performance of this Contract to the extent not terminated.

23.3 In case the delay in the delivery of the Goods and/or performance of the Services exceeds a time duration equivalent to ten percent (10%) of the specified contract time plus any time extension duly granted to the Supplier, the Procuring Entity may terminate this Contract, forfeit the Supplier's performance security and award the same to a qualified Supplier.

24. Termination for Insolvency

The Procuring Entity shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Procuring Entity and/or the Supplier.

25. Termination for Convenience

25.1 The Procuring Entity may terminate this Contract, in whole or in part, at any time for its convenience. The Head of the Procuring Entity may terminate a contract for the convenience of the Government if he has determined the existence of conditions that make Project Implementation economically,
financially or technically impractical and/or unnecessary, such as, but not limited to, fortuitous event(s) or changes in law and national government policies.

25.2 The Goods that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier’s receipt of Notice to Terminate shall be accepted by the Procuring Entity at the contract terms and prices. For Goods not yet performed and/or ready for delivery, the Procuring Entity may elect:

(a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.

25.3 If the Supplier suffers loss in its initial performance of the terminated contract, such as purchase of raw materials for goods specially manufactured for the Procuring Entity which cannot be sold in open market, it shall be allowed to recover partially from this Contract, on a *quantum meruit* basis. Before recovery may be made, the fact of loss must be established under oath by the Supplier to the satisfaction of the Procuring Entity before recovery may be made.

26. **Termination for Unlawful Acts**

26.1 The Procuring Entity may terminate this Contract in case it is determined *prima facie* that the Supplier has engaged, before or during the implementation of this Contract, in unlawful deeds and behaviors relative to contract acquisition and implementation. Unlawful acts include, but are not limited to, the following:

(a) Corrupt, fraudulent, and coercive practices as defined in ITB Clause 3.1;

(b) Drawing up or using forged documents;

(c) Using adulterated materials, means or methods, or engaging in production contrary to rules of science or the trade; and

(d) Any other act analogous to the foregoing.

27. **Procedures for Termination of Contracts**

27.1 The following provisions shall govern the procedures for termination of this Contract:

(a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Implementing Unit shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;

(b) Upon recommendation by the Implementing Unit, the Head of the Procuring Entity shall terminate this Contract only by a written notice to
the Supplier conveying the termination of this Contract. The notice shall state:

(i) that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;

(ii) the extent of termination, whether in whole or in part;

(iii) an instruction to the Supplier to show cause as to why this Contract should not be terminated; and

(iv) special instructions of the Procuring Entity, if any.

(b) The Notice to Terminate shall be accompanied by a copy of the Verified Report;

(c) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the Head of the Procuring Entity a verified position paper stating why this Contract should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the Head of the Procuring Entity shall issue an order terminating this Contract;

(d) The Procuring Entity may, at any time before receipt of the Supplier’s verified position paper described in item (d) above withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier’s receipt of the notice;

(e) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the Head of the Procuring Entity shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate;

(f) The Head of the Procuring Entity may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Procuring Entity; and

(g) The Supplier must serve a written notice to the Procuring Entity of its intention to terminate the contract at least thirty (30) calendar days before its intended termination. The Contract is deemed terminated if it is not resumed in thirty (30) calendar days after the receipt of such notice by the Procuring Entity.

28. **Assignment of Rights**

The Supplier shall not assign his rights or obligations under this Contract, in whole or in part, except with the Procuring Entity’s prior written consent.
29. **Contract Amendment**

Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.

30. **Application**

These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of this Contract.
## SECTION V
### SPECIAL CONDITIONS OF THE CONTRACT

<table>
<thead>
<tr>
<th>GCC Clause</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1(g)</td>
<td>The Procuring Entity is <em>Batangas State University</em></td>
</tr>
<tr>
<td>1.1(i)</td>
<td>The Supplier is __________________________.</td>
</tr>
<tr>
<td>1.1(j)</td>
<td>The Funding Source is: The Government of the Philippines (GOP) through the <em>Approved Supplemental Budget</em> in the amount of <em>Six Million Eight Hundred Thousand Pesos</em> (Php 6,800,000.00).</td>
</tr>
<tr>
<td>1.1(k)</td>
<td>The Project Site is <em>Batangas State University, GPB Campus I, Rizal Avenue Extension, Batangas City</em></td>
</tr>
</tbody>
</table>
| 5.1        | The Procuring Entity’s address for Notices is: *Dr. Tirso A. Ronquillo*  
*University President*  
*Batangas State University*  
*International Affairs Office, GPB Main Campus I*  
*Batangas City*  
The Supplier’s address for Notices is: __________________________ |
| 6.2        | **Delivery and Documents** – The delivery terms applicable to this Contract are delivered to *Batangas State University, GPB Campus I, Rizal Avenue Extension, Batangas 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.  
Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI. Schedule of Requirements. The details of shipping and/or other documents to be furnished by the Supplier are as follows:  
*For Goods supplied from within the Philippines:*  
Upon delivery of the Goods to the Project Site, the Supplier shall notify the Procuring Entity and present the following documents to the Procuring Entity:  
(i) Original and copies of the Supplier's invoice showing
Goods’ description, quantity, unit price, and total amount;

(ii) Original and copies delivery receipt/note, railway receipt, or truck receipt;

(iii) Original Supplier’s factory inspection report;

(iv) Original and copies of the Manufacturer’s and/or Supplier’s warranty certificate;

(v) Delivery receipt detailing number and description of items received signed by the authorized receiving personnel;

(vi) Certificate of Acceptance/Inspection Report signed by the Procuring Entity’s representative at the Project Site; and

(vii) Four copies of the Invoice Receipt for Property signed by the Procuring Entity’s representative at the Project Site.

For purposes of this Clause the Procuring Entity’s Representative at the Project Site is Vice President for Research, Development & Extension, **DR. ERMA B. QUINAY** and Asst. Director for Supply & Property Management Office, **MR. MARIO EBORA**.

**Incidental Services** –

The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:

*Select appropriate requirements and delete the rest.*

(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

(e) training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for
similar services.

**Patent Rights**

The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.4</td>
<td>Not applicable</td>
</tr>
<tr>
<td>13.4(c)</td>
<td>No further instructions.</td>
</tr>
<tr>
<td>16.1</td>
<td>The inspections and tests that will be conducted are: Checking based on the required specifications.</td>
</tr>
<tr>
<td>17.3</td>
<td>One (1) year after acceptance by the Procuring Entity of the delivered Goods.</td>
</tr>
<tr>
<td>17.4</td>
<td>The period for correction of defects in the warranty period is <strong>fifteen (15) days</strong>.</td>
</tr>
<tr>
<td>21.1</td>
<td>No additional provision.</td>
</tr>
</tbody>
</table>
## 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.

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Specifications</th>
<th>Qty.</th>
<th>Delivery Days/Weeks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>UV-VIS SPECTROPHOTO-METER</td>
<td>1</td>
<td>60 days</td>
</tr>
</tbody>
</table>

**Hardware Specifications**

**Photometric system**
- Double-beam optics
- Czerny-Turner mounting
- Double monochromator
- Lo-Ray-ligh grade blazed holographic grating Detector
- R-928 Photomultiplier

**Light source**
- 50 W halogen lamp, deuterium lamp, light source auto position adjustment built in

**Setting wavelength range**
- 185 ~1400 nm

**Wavelength accuracy**
- ±0.1 nm (656.1 nm D2), ±0.3 nm (all range)

**Wavelength repeatability**
- ±0.05 nm

**Wavelength scanning speed**
- Wavelength slew rate: about 14000 nm/min
- Wavelength scan rate: about 4000 to 0.5 nm/min

**Wavelength setting**
- At 1 nm units for scan start and scan end wavelengths, and 0.1 nm units for other wavelengths
- Lamp interchange wavelength
<table>
<thead>
<tr>
<th>Schedule of Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <strong>Auto switching synchronized with wavelength; switching range selectable between 290 and 370 nm (0.1 nm units)</strong></td>
</tr>
<tr>
<td><strong>Spectral bandwidth</strong></td>
</tr>
<tr>
<td>• 0.1/0.2/0.5/1/2/5 nm</td>
</tr>
<tr>
<td>• L2/L5 (low stray-light mode)</td>
</tr>
<tr>
<td><strong>Resolution</strong></td>
</tr>
<tr>
<td>• 0.1 nm</td>
</tr>
<tr>
<td><strong>Stray light</strong></td>
</tr>
<tr>
<td>• Max. 0.00005 % (220 nm, NaI)</td>
</tr>
<tr>
<td>• Max. 0.00002 % (340, 370 nm, NaNO₂)</td>
</tr>
<tr>
<td>• Max. 1 % (198 nm, KCl)</td>
</tr>
<tr>
<td><strong>Photometric modes</strong></td>
</tr>
<tr>
<td>• Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)</td>
</tr>
<tr>
<td><strong>Photometric range</strong></td>
</tr>
<tr>
<td>• Absorbance: -8.5 to 8.5 Abs</td>
</tr>
<tr>
<td><strong>Transmittance, reflectance: 0 to 100000 %</strong></td>
</tr>
<tr>
<td><strong>Photometric accuracy</strong></td>
</tr>
<tr>
<td>• ±0.002Abs (0.5Abs)</td>
</tr>
<tr>
<td>• ±0.003Abs (1Abs)</td>
</tr>
<tr>
<td>• ±0.006Abs (2Abs)</td>
</tr>
<tr>
<td>• ±0.3%T</td>
</tr>
<tr>
<td>• Measured using NIST930D/NIST1930 or equivalent filter</td>
</tr>
<tr>
<td><strong>Photometric repeatability</strong></td>
</tr>
<tr>
<td>• ±0.001Abs (0.5Abs)</td>
</tr>
<tr>
<td>• ±0.001Abs (1Abs)</td>
</tr>
<tr>
<td>• ±0.003Abs (2Abs)</td>
</tr>
<tr>
<td><strong>Noise level</strong></td>
</tr>
<tr>
<td>• 0.00005Abs RMS (500nm)</td>
</tr>
<tr>
<td><strong>Baseline flatness</strong></td>
</tr>
<tr>
<td>• ±0.0004Abs (200 ~ 860nm), 1 hour after light source is turned ON</td>
</tr>
<tr>
<td><strong>Baseline stability</strong></td>
</tr>
<tr>
<td>-------------------------------</td>
</tr>
<tr>
<td>Within 0.0003 Abs/h (700 nm), 1 hour after light source is turned ON</td>
</tr>
<tr>
<td>Sample compartment</td>
</tr>
<tr>
<td>• Internal dimensions: W150 × D260 × H140 (mm)</td>
</tr>
<tr>
<td>• Distance between light beams: 100 mm</td>
</tr>
<tr>
<td>• Maximum optical path length of cell: 100 mm</td>
</tr>
<tr>
<td><strong>Dimensions</strong></td>
</tr>
<tr>
<td>• W450 × D600 × H250 (mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>• 23kg</td>
</tr>
<tr>
<td><strong>Operating temperature</strong></td>
</tr>
<tr>
<td>• 15°C to 35°C</td>
</tr>
<tr>
<td><strong>Operating humidity</strong></td>
</tr>
<tr>
<td>• 30 % to 80 % (no condensation, less than 70 % above 30 °C)</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
</tr>
<tr>
<td>• 100 to 240 VAC, 50/60 Hz</td>
</tr>
<tr>
<td>• Power consumption - 170VA</td>
</tr>
</tbody>
</table>

**SOFTWARE SPECIFICATIONS**

UVProbe Software

**Operating System**

- Windows 7 Professional/Vista Business (32 bits) Data Acquisition Modes Spectrum, Photometric (quantitation), and Kinetics (time course)

**General**

- Multitasking (possible to execute data processing while measurement is being performed)
- Customizable measurement screen layout (wavelengths, data display font and font size, colors, displayed number of digits)
- GLP/GMP compliant (security, history)
- Real-time concentration display
Spectrum Mode
- Comparison/interactive processing of multiple spectra (Note 2)
- Storage of all processed data with original data set including a history of all manipulations
- Spectrum enlargement/shrinking and auto scale
- Automatic interlink with spectral data processing
- Annotation on spectrum screen

Data Processing in Spectrum Mode
- Normalization, Point Pick, peak/valley detection, area calculation
- 1st - 4th derivatives, smoothing, reciprocal, square root, natural log, Abs, %T conversion, exponential conversion, and Kubelka-Munk conversion

Photometric (Quantitation) Mode
- Comparison/interactive processing of multiple time-course data (Note 2)
- Single- or double-wavelength measurement (difference or ratio) Simultaneous display of time-course data, enzyme table, and graphs
- Enzyme kinetics calculation (for single- or multi-cell) Michaelis-Menten calculations and graph creation (Michaelis-Menten, Lineweaver-Burk, Hanes, Woolf, Eadie-Hofstee), Dixon plot, Hill plot
- Integrated management of sample information including original data, sample weight, and dilution factors, etc.
- Event recording such as addition of reagents during measurement
- Time-course spectrum data processing (same as in spectrum data processing)

Report Generator
- Preview and print functions for customized formats
- Layout and editing of templates
- Quick printing using report templates
- Auto-printing (spectrum mode)
- Multi-page printout
- Insertion of date, time, text, and drawing objects including lines, circles and rectangles
- Insertion of spectral/quantitative data, method, and history
- Specification of graph line thickness (for each module), font style, and size
**UV Validation Software**
- Inspection Items
- Initialization results log
- Wavelength accuracy
- Wavelength repeatability
- Photometric accuracy
- Photometric repeatability
- Resolution
- Stray light
- Baseline flatness
- Noise level
- Drift (baseline stability)

**Features**
- Select the items to implement during inspection to confirm the approximate time required for full inspection.
- The system is capable of both wavelength repeatability checks and wavelength accuracy checks using a wavelength calibration filter. If the optional mercury lamp unit is used, wavelength accuracy can be inspected using the low-pressure mercury lamp’s bright line.

(Note)
1) The PC, CRT, and printer are not included as standard.
2) Depends on the specifications (including memory capacity) of the PC used. As a guideline, 20 to 30 sets of spectral data can be handled simultaneously

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*
# FLOURESCENCE SPECTROMETER AND ACCESSORIES

<table>
<thead>
<tr>
<th><strong>Hardware Specifications:</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Light Source</td>
<td>150W Xenon lamp. Ozone resolving type lamp housing.</td>
</tr>
<tr>
<td>Excitation and emission monochromators</td>
<td>Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.</td>
</tr>
<tr>
<td>Wavelength scale</td>
<td>220-900nm.</td>
</tr>
<tr>
<td>Measuring wavelength range</td>
<td>Measuring wavelength range</td>
</tr>
<tr>
<td>Spectral bandwidth</td>
<td>6-step selection of 1.5, 3, 5, 10, 15 and 20nm. (6nm bandwidth is available for half sample height on the excitation side only.)</td>
</tr>
<tr>
<td>Wavelength accuracy</td>
<td>±1.5nm.</td>
</tr>
<tr>
<td>Light source compensation</td>
<td>Dynode feedback system with monochromatic light monitoring.</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>The S/N ratio is 150 or higher for the Raman line of distilled water (350nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98% of the full scale).</td>
</tr>
<tr>
<td>Wavelength scanning</td>
<td>7-step selection of Survey (about 5500nm/min), Super (about 3000nm/min), Very Fast, Fast, Medium, Slow and Very Slow.</td>
</tr>
<tr>
<td>Wavelength slewing speed</td>
<td>About 20,000nm/min.</td>
</tr>
<tr>
<td>Response</td>
<td>8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98% of the full scale.</td>
</tr>
<tr>
<td>Sensitivity selection</td>
<td>2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)</td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232C interface, interface for auto sampler, and interface for sipper unit.</td>
</tr>
<tr>
<td>Dimensions and weight</td>
<td>667W x 530D x 270H mm; 43 kg.</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100, 120, 220, 240V; 50/60Hz; 400VA.</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>15-35°C</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>40-80% (Below 70% with temperature higher than 30°C).</td>
</tr>
</tbody>
</table>
## Software Specifications

<table>
<thead>
<tr>
<th><strong>Measurement</strong></th>
<th>Excitation, emission and synchronous spectrum measurement, time-course measurement, quantitation, automatic search of optimal excitation and emission wavelengths, PopUp Scan™.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Data processing</strong></td>
<td>Arithmetic calculation between spectra and between a spectrum and a constant, smoothing, 1st through 4th derivatives, 1/Y, logarithmic conversion, data printout (with or without activity value computation), peak pick, point pick, area calculation, averaging (in quantitation), generation of calibration curves of 1st through 3rd order.</td>
</tr>
<tr>
<td><strong>Filing</strong></td>
<td>Save, recall, and delete, of data. Conversion into ASCII and DIF formats.</td>
</tr>
<tr>
<td><strong>Data output</strong></td>
<td>Automatic scale adjustment, readout of data at user-specified point, data print out (preview function provided), selection of colors and types of curves.</td>
</tr>
<tr>
<td><strong>Maintenance</strong></td>
<td>Automatic monitoring of signal-to-noise ratio, monitoring of the run time of light.</td>
</tr>
<tr>
<td><strong>User interface</strong></td>
<td>Speedbox (assign icons for commonly used menu commands)</td>
</tr>
<tr>
<td><strong>Other functions</strong></td>
<td>Data exchange via clipboard, auto response control, automatic shutter.</td>
</tr>
<tr>
<td><strong>Pc instruments</strong></td>
<td>IBM-PC/AT or 100% compatible; i486 or higher CPU; 8 Mbyte or larger main memory. Operates on MS-Windows version 3.1 or higher.</td>
</tr>
</tbody>
</table>

## Accessories and consumables:

### Spectroscopy Cells
The cells available include macro, semi-micro and ultra-micro with a range of different light paths; flow-through cells and cells for magnetic stirrers. All of the cells are suitable for any fluorescence Spectrophotometer which accommodates cells with a center height of 15 mm.

### Front Surface accessory
The Front Surface accessory is ideal for analyzing films, papers, powders and other flat samples. The sample may be placed in the accessory directly or held in the powder holder that has a synthetic fused silica window. Ultra small volumes or viscous samples such as oils, opaque and turbid samples may be measured via the powder holder or cuvette.
### LC Flow Cell
The LC flow cell for high sensitivity liquid chromatography is a good means of expanding the utility of the LS 45 or LS 55. Providing laboratories with an alternative to a dedicated LC fluorescence detector. The twin monochromators of the system enable accurate wavelength selection for maximum selectivity and sensitivity.

### Plate Reader accessory
The Plate Reader accessory is a sensitive and easy-to-use way to measure fluorescence based assays in multiwell plates. Controlled from the LS 55, it is able to use a wide range of UV and Visible wavelengths ensuring the detection of virtually all fluorescent dyes used in for bio assays. Two programs are included in FL WinLab for the Plate Reader. One allows the user to create flexible wavelength programs for single end-point and kinetic analyses: The other allows the measurement of flat samples such as gels, and presents data as a 3D image. In addition, an optional plug-in program allows the user to collect up to 100 spectra per well.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*

### MASS SPECTROPHOTO-METER

<table>
<thead>
<tr>
<th>HARDWARE</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Vacuum Pumps: (nitrogen) air- cooled turbomolecular pump with minimum pumping of speed 200 liter per second with 2.5 to 2.9 m³/hr (50-60 Hz) rotary vanes.</td>
<td>• EI: voltage 10-100ev</td>
<td></td>
</tr>
<tr>
<td>• Vacuum Gauge: Standard single wide range</td>
<td>• Analyzer : Monolithic Hyperbolic Quadrupole(100°C-300°C)</td>
<td></td>
</tr>
<tr>
<td>• Pump- Down time:255L/sec turbomolecular pump : &lt; 3min. for air/water: &lt; 90 min for quantitative stability</td>
<td>• Detector : Ion Trap Detector (ITD) or equivalent Sealed long life photomultiplier</td>
<td></td>
</tr>
<tr>
<td>• Mass axis stability : +/-0.1 m/z accuracy over 48hrs</td>
<td>• Must have an ion gauge to display vacuum</td>
<td></td>
</tr>
</tbody>
</table>

### SENSITIVITY

<table>
<thead>
<tr>
<th>Test</th>
<th>Amount</th>
<th>Detection Limit(S/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sheet of Requirements**

Batangas State University
Bidding Documents (Based on Revised IRR of RA 9184, Fourth Edition, December 2010)
EI Full scan                              1 pg of OctaFluoroNaphtalene (OFN)   180:1 RMS
Positive CI full scan                    100 pg of Benophenone                   300:1 RMS
Negative CI full scan                    1 pg OFN                                  450:1 RMS

**PERFORMANCE**
- Mass range: 1.0 to 1050 u (amu)
- Scan rate: Fully variable up to 12,500 amu/s
- Scanning sensitivity: 0.1 u (amu)
- High-Performance Selected Ion Monitoring (SIM) and Full Scan
- Auto SIM: Auto tune program for EI, PCI, NCI

**ACCESSORIES:**
1. Micro Syringes 5 μl, 10 μl and 25 μl (3 each)
2. GAS CYLINDERS: The equipment should be provided with oxygen, nitrogen, hydrogen and air cylinders along with regulators, connectivity copper pipes and filters through local supplies.
3. Flow meter for normal gas flow measurement.

**Column**
- FS-capillary DB-5MS, 30 m X 0.25 mm ID X 0.25 μm or equivalent
- 60 m X 0.32 mm X 1 μm DB-5MS column (or equivalent) with 1m X 0.25 mm deactivated fused silica transfer line
- GC column, 30 m X 0.32 mm X 3.0 μm DB-1 fused silica capillary column or equivalent

The system should have the capability of upgradation in future for:
- Solvent Bypass - Eliminate early peaks.
- Heart Cut - Cut peaks to another column to find trace levels in a complex matrix.
- Backflush - Eliminate later/post-run peaks. Shorten cycle times; eliminate sample carryover, less column usage & lower detector maintenance cost. Splitting of column outlet as per requirement to send all peaks to multiple detectors, to obtain more information during each run. (Find peaks of interest in unknowns).
- Modulate (New) - Send faction of effluence to 2nd column for few seconds a time.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*
# SECTION VII
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>UV-VIS SPECTROPHOTO-METER</strong></td>
</tr>
</tbody>
</table>

### Hardware Specifications
- Photometric system
  - Double-beam optics
  - Czerny-Turner mounting
  - Double monochromator
  - Lo-Ray-ligh grade blazed holographic grating Detector
  - R-928 Photomultiplier

### Light Source
- 50 W halogen lamp, deuterium lamp, light source auto position adjustment built in

### Setting Wavelength Range
- 185 ~ 1400nm

### Wavelength Accuracy
- ±0.1 nm (656.1 nm D2), ±0.3 nm (all range)

### Wavelength Repeatability
- ±0.05 nm

### Wavelength Scanning Speed
- Wavelength slew rate: about 14000 nm/min
- Wavelength scan rate: about 4000 to 0.5 nm/min

### Wavelength Setting
- At 1 nm units for scan start and scan end wavelengths, and 0.1 nm units for other wavelengths
- Lamp interchange wavelength

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Statement of Compliance</th>
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</thead>
<tbody>
<tr>
<td>1 unit</td>
<td>COMPLY / NOT COMPLY</td>
</tr>
</tbody>
</table>
• Auto switching synchronized with wavelength; switching range selectable between 290 and 370 nm (0.1 nm units)

**Spectral bandwidth**
• 0.1/0.2/0.5/1/2/5 nm
  L2/L5 (low stray-light mode)

**Resolution**
• 0.1 nm

**Stray light**
• Max. 0.00005 % (220 nm, NaI)
• Max. 0.00002 % (340, 370 nm, NaNO₂)
• Max. 1 % (198 nm, KCl)

**Photometric modes**
• Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)

**Photometric range**
• Absorbance: -8.5 to 8.5 Abs
• Transmittance, reflectance: 0 to 100000 %

**Photometric accuracy**
• ±0.002Abs (0.5Abs)
• ±0.003Abs (1Abs)
• ±0.006Abs (2Abs)
• ±0.3%T
• Measured using NIST930D/NIST1930 or equivalent filter

**Photometric repeatability**
• ±0.001Abs (0.5Abs)
• ±0.001Abs (1Abs)
• ±0.003Abs (2Abs)

**Noise level**
• 0.00005Abs RMS (500nm)

**Baseline flatness**
• ±0.0004Abs (200 ～860nm), 1 hour after light source is turned ON
Baseline stability
Within 0.0003 Abs/h (700 nm), 1 hour after light source is turned ON
Sample compartment
  • Internal dimensions: W150 × D260 × H140 (mm)
  • Distance between light beams: 100 mm
  • Maximum optical path length of cell: 100 mm
Dimensions
  • W450 × D600 × H250 (mm)
Weight
  • 23kg
Operating temperature
  • 15°C to 35°C
Operating humidity
  • 30 % to 80 % (no condensation, less than 70 % above 30 °C
Power requirements
  • 100 to 240 VAC, 50/60 Hz
  • Power consumption - 170VA

SOFTWARE SPECIFICATIONS
UVProbe Software
Operating System
  • Windows 7 Professional/Vista Business (32 bits) Data Acquisition Modes Spectrum, Photometric (quantitation), and Kinetics (time course)
General
  • Multitasking (possible to execute data processing while measurement is being performed)
  • Customizable measurement screen layout (wavelengths, data display font and font size, colors, displayed number of digits)
  • GLP/GMP compliant (security, history)
  • Real-time concentration display
Spectrum Mode

- Comparison/interactive processing of multiple spectra (Note 2)
- Storage of all processed data with original data set including a history of all manipulations
- Spectrum enlargement/shrinking and auto scale
- Automatic interlink with spectral data processing
- Annotation on spectrum screen

Data Processing in Spectrum Mode

- Normalization, Point Pick, peak/valley detection, area calculation
- 1st - 4th derivatives, smoothing, reciprocal, square root, natural log, Abs, %T conversion, exponential conversion, and Kubelka-Munk conversion

Photometric (Quantitation) Mode

- Comparison/interactive processing of multiple time-course data (Note 2)
- Single- or double-wavelength measurement (difference or ratio) Simultaneous display of time-course data, enzyme table, and graphs
- Enzyme kinetics calculation (for single- or multi-cell) Michaelis-Menten calculations and graph creation (Michaelis-Menten, Lineweaver-Burk, Hanes, Woolf, Eadie-Hofstee), Dixon plot, Hill plot
- Integrated management of sample information including original data, sample weight, and dilution factors, etc.
- Event recording such as addition of reagents during measurement
- Time-course spectrum data processing (same as in spectrum data processing)

Report Generator

- Preview and print functions for customized formats
- Layout and editing of templates
- Quick printing using report templates
- Auto-printing (spectrum mode)
- Multi-page printout
- Insertion of date, time, text, and drawing objects including lines, circles and rectangles
- Insertion of spectral/quantitative data, method, and history
- Specification of graph line thickness (for each module), font style, and size
UV Validation Software

- Inspection Items
- Initialization results log
- Wavelength accuracy
- Wavelength repeatability
- Photometric accuracy
- Photometric repeatability
- Resolution
- Stray light
- Baseline flatness
- Noise level
- Drift (baseline stability)

Features

- Select the items to implement during inspection to confirm the approximate time required for full inspection.
- The system is capable of both wavelength repeatability checks and wavelength accuracy checks using a wavelength calibration filter. If the optional mercury lamp unit is used, wavelength accuracy can be inspected using the low-pressure mercury lamp’s bright line.

(Note)
1) The PC, CRT, and printer are not included as standard.
2) Depends on the specifications (including memory capacity) of the PC used. As a guideline, 20 to 30 sets of spectral data can be handled simultaneously

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Specifications</th>
<th>Qty.</th>
<th>Statement of Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td><strong>FLOURESCENCE SPECTROMETER AND ACCESSORIES</strong></td>
<td>1 unit</td>
<td>COMPLY / NOT COMPLY</td>
</tr>
</tbody>
</table>

**Hardware Specifications:**

- **Light Source**: 150W Xenon lamp. Ozone resolving type lamp housing.
- **Excitation and emission monochromators**: Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.
- **Wavelength scale**: 220-900nm.
- **Measuring wavelength range**: Measuring wavelength range.
- **Spectral bandwidth**: 6-step selection of 1.5, 3, 5, 10, 15 and 20nm. (6nm bandwidth is available for half sample height on the excitation side only.)
- **Wavelength accuracy**: ±1.5nm.
- **Light source compensation**: Dynode feedback system with monochromatic light monitoring.
- **Sensitivity**: The S/N ratio is 150 or higher for the Raman line of distilled water (350nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98% of the full scale).
- **Wavelength scanning**: 7-step selection of Survey (about 5500nm/min), Super (about 3000nm/min), Very Fast, Fast, Medium, Slow and Very Slow.
- **Wavelength slewing speed**: About 20,000nm/min.
- **Response**: 8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98% of the full scale.
- **Sensitivity selection**: 2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)
- **Interface**: RS-232C interface, interface for auto sampler, and interface for sipper unit.
- **Dimensions and weight**: 667W x 530D x 270H mm; 43 kg.
- **Power requirements**: 100, 120, 220, 240V; 50/60Hz; 400VA.
- **Operational temperature range**: 15-35°C.
- **Operational temperature range**: 40-80% (Below 70% with temperature higher than 30°C).
### Software Specifications:

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Excitation, emission and synchronous spectrum measurement, time-course measurement, quantitation, automatic search of optimal excitation and emission wavelengths, PopUp Scan.™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data processing</td>
<td>Arithmetic calculation between spectra and between a spectrum and a constant, smoothing, 1st through 4th derivatives, 1/Y, logarithmic conversion, data printout (with or without activity value computation), peak pick, point pick, area calculation, averaging (in quantitation), generation of calibration curves of 1st through 3rd order.</td>
</tr>
<tr>
<td>Filing</td>
<td>Save, recall, and delete, of data. Conversion into ASCII and DIF formats.</td>
</tr>
<tr>
<td>Data output</td>
<td>Automatic scale adjustment, readout of data at user-specified point, data print out (preview function provided), selection of colors and types of curves.</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Automatic monitoring of signal-to-noise ratio, monitoring of the run time of light</td>
</tr>
<tr>
<td>User interface</td>
<td>Speedbox (assign icons for commonly used menu commands)</td>
</tr>
<tr>
<td>Other functions</td>
<td>Data exchange via clipboard, auto response control, automatic shutter.</td>
</tr>
<tr>
<td>PC instruments</td>
<td>IBM-PC/AT or 100% compatible; i486 or higher CPU; 8 Mbyte or larger main memory. Operates on MS-Windows version 3.1 or higher.</td>
</tr>
</tbody>
</table>

### Accessories and consumables:

**Spectroscopy Cells**
The cells available include macro, semi-micro and ultra-micro with a range of different light paths; flow-through cells and cells for magnetic stirrers. All of the cells are suitable for any fluorescence Spectrophotometer which accommodates cells with a center height of 15 mm.

**Front Surface accessory**
The Front Surface accessory is ideal for analyzing films, papers, powders and other flat samples. The sample may be placed in the accessory directly or held in the powder holder that has a synthetic fused silica window. Ultra small volumes or viscous samples such as oils, opaque and turbid samples may be measured via the powder holder or cuvette.
<table>
<thead>
<tr>
<th><strong>LC Flow Cell</strong></th>
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<tbody>
<tr>
<td>The LC flow cell for high sensitivity liquid chromatography is a good means of expanding the utility of the LS 45 or LS 55. Providing laboratories with an alternative to a dedicated LC fluorescence detector. The twin monochromators of the system enable accurate wavelength selection for maximum selectivity and sensitivity.</td>
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</table>

<table>
<thead>
<tr>
<th><strong>Plate Reader accessory</strong></th>
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<tbody>
<tr>
<td>The Plate Reader accessory is a sensitive and easy-to-use way to measure fluorescence based assays in multiwell plates. Controlled from the LS 55, it is able to use a wide range of UV and Visible wavelengths ensuring the detection of virtually all fluorescent dyes used in for bio assays. Two programs are included in FL WinLab for the Plate Reader. One allows the user to create flexible wavelength programs for single end-point and kinetic analyses: The other allows the measurement of flat samples such as gels, and presents data as a 3D image. In addition, an optional plug-in program allows the user to collect up to 100 spectra per well.</td>
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</table>

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<tr>
<td>3</td>
<td><strong>MASS SPECTROPHOTO-METER</strong>&lt;br&gt;Mass Spectrometer Electron Ionization EI and Chemical Ionization CI&lt;br&gt;&lt;br&gt;<strong>HARDWARE</strong>&lt;br&gt;• Vacuum Pumps: (nitrogen) air-cooled turbomolecular pump with minimum pumping of speed 200 liter per second with 2.5 to 2.9 m³/hr (50-60 Hz) rotary vanes.&lt;br&gt;• Vacuum Gauge: Standard single wide range&lt;br&gt;• Pump- Down time: 255L/sec turbomolecular pump: &lt; 3min. for air/water: &lt; 90 min for quantitative stability&lt;br&gt;• EI: voltage 10-100ev&lt;br&gt;• Analyzer: Monolithic Hyperbolic Quadrupole(100°C-300°C)&lt;br&gt;• Detector: Ion Trap Detector (ITD) or equivalent Sealed long life photomultiplier&lt;br&gt;• Mass axis stability: +/-0.1 m/z accuracy over 48hrs&lt;br&gt;• Must have an ion gauge to display vacuum&lt;br&gt;&lt;br&gt;<strong>SENSITIVITY</strong>&lt;br&gt;Test</td>
<td>Amount</td>
<td>Detection Limit(S/N)</td>
</tr>
<tr>
<td>EI Full scan</td>
<td>1pg of OctaFluoroNaphtalene (OFN)</td>
<td>180:1 RMS</td>
<td></td>
</tr>
<tr>
<td>Positive CI full scan</td>
<td>100 pg of Benophenone</td>
<td>300:1 RMS</td>
<td></td>
</tr>
<tr>
<td>Negative CI full scan</td>
<td>1 pg OFN</td>
<td>450:1 RMS</td>
<td></td>
</tr>
<tr>
<td><strong>PERFORMANCE</strong>&lt;br&gt;• Mass range: 1.0 to 1050 u(amu)&lt;br&gt;• Scan rate: Fully variable up to 12,500 amu/s&lt;br&gt;• Scanning sensitivity: 0.1 u (amu)&lt;br&gt;• High-Performance Selected Ion Monitoring (SIM) and Full Scan&lt;br&gt;• Auto SIM: Auto tune program for EI, PCI, NCI</td>
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<tr>
<td>1 unit</td>
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</table>
ACCESSORIES:
1. Micro Syringes 5 µl, 10 µl and 25 µl (3 each)
2. GAS CYLINDERS: The equipment should be provided with oxygen, nitrogen, hydrogen and air cylinders along with regulators, connectivity copper pipes and filters through local supplies.
3. Flow meter for normal gas flow measurement.

Column
- FS-capillary DB-5MS, 30 m X 0.25 mm ID X 0.25 µm or equivalent
- 60 m X 0.32 mm X 1 µm DB-5MS column (or equivalent) with 1 m X 0.25 mm deactivated fused silica transfer line
- GC column, 30 m X 0.32 mm X 3.0 µm DB-1 fused silica capillary column or equivalent

The system should have the capability of upgradation in future for:
Solvent Bypass - Eliminate early peaks. Heart Cut - Cut peaks to another column to find trace levels in a complex matrix. Backflush - Eliminate later/post-run peaks. Shorten cycle times; eliminate sample carryover, less column usage & lower detector maintenance cost. Splitting of column outlet as per requirement to send all peaks to multiple detectors, to obtain more information during each run. (Find peaks of interest in unknowns). Modulate (New) - Send fraction of effluence to 2nd column for few seconds a time.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)
SECTION VIII
BIDDING FORMS

List of Forms

<table>
<thead>
<tr>
<th>Form No.</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BatStateU Goods Form No. 1</td>
<td>Bid Form</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 2</td>
<td>List of On-going Government and Private Contracts including Contracts Awarded but not yet started</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 3</td>
<td>Statement of all Government and Private completed contracts which are similar in nature</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 4</td>
<td>Net Financial Contracting Capacity</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 5a</td>
<td>Bank Guarantee</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 5b</td>
<td>Surety Bond</td>
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<tr>
<td>BatStateU Goods Form No. 5c</td>
<td>Bid Securing Declaration</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 6</td>
<td>Conformity with Technical Specifications and Schedule of Requirements</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 7</td>
<td>Omnibus Sworn Statement</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 8</td>
<td>Request for Clarification</td>
</tr>
<tr>
<td>BatStateU Goods Form No. 9</td>
<td>Bill of Quantities</td>
</tr>
</tbody>
</table>
**SECTION VIII**

**BIDDING FORMS**

**List of Forms**

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<td>Net Financial Contracting Capacity</td>
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<td>Request for Clarification</td>
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<tr>
<td>BatStateU Goods Form No. 9</td>
<td>Bill of Quantities</td>
</tr>
</tbody>
</table>
To: **ENGR. ROGELIO A. ANTENOR**  
BAC Chairman  
Batangas State University  
Batangas City

Gentlemen and / or Ladies:

Having examined the Bidding Documents including Bid Bulletin Numbers [insert numbers], the receipt of which is hereby duly acknowledge, we, the undersigned, offer to [supply / deliver / perform](description of the Goods) in conformity with the said Bidding Documents for the sum as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

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

We agree to abide by this Bid for the Bid Validity specified in the BDS provision for ITB Clause 18.2 and it shall remain binding upon us and maybe accepted at any time before the expiration of that period.

Commissions or gratuities, if any, paid or to be paid to us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

<table>
<thead>
<tr>
<th>Name and Address of agent</th>
<th>Amount and Currency</th>
<th>Purpose of Commission or Gratuity</th>
</tr>
</thead>
<tbody>
<tr>
<td>________________________</td>
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<td>________________________________</td>
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<td>(if none, state “None”)</td>
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</table>

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

We understand that you are not bound to accept the lowest or any bid you may receive.

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

Dated this _____________ day of _____________, 2013.

[Signature]  
[in the capacity of]  
Duly authorized to sign Bid for and on behalf of ____________________________.
List of all Ongoing Government & Private Contracts including contracts awarded but not yet started

<table>
<thead>
<tr>
<th>Business Name</th>
<th>Business Address</th>
</tr>
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<table>
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<tbody>
<tr>
<td></td>
<td>a. Date Awarded</td>
<td>b. Date Started</td>
<td>c. Date of Completion</td>
<td>Description</td>
<td>%</td>
<td>Planned</td>
<td>Actual</td>
</tr>
</tbody>
</table>

| Government | | | | | | | |
| Private | | | | | | | |

Note: This statement shall be supported with:
1 Notice of Award and/or Contract
2 Notice to Proceed issued by the owner
3 Certificate of Accomplishments signed by the owner or authorized representative

Submitted by: __________________________ (Printed Name & Signature)
Designation: __________________________
Date: __________________________
Statement of all Government & Private Contracts completed which are similar in nature

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<tbody>
<tr>
<td><strong>Government</strong></td>
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</table>

Note: This statement shall be supported with:
1. Contract
2. Certificate of Completion
3. Certificate of Acceptance

Submitted by: ___________________________________________________
(Printed Name & Signature)

Designation: ___________________________________________________

Date: ___________________________________________________
NET FINANCIAL CONTRACTING CAPACITY

A. Summary of the Applicant Supplier's/Distributor's/Manufacturer's assets and liabilities on the basis of the attached income tax return and audited financial statement, stamped "RECEIVED" by the Bureau of Internal Revenue or BIR authorized collecting agent, for the immediately preceding year and a certified copy of Schedule of Fixed Assets particularly the list of construction equipment.

<table>
<thead>
<tr>
<th></th>
<th>Year 20__</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Total Assets</td>
<td></td>
</tr>
<tr>
<td>2. Current Assets</td>
<td></td>
</tr>
<tr>
<td>3. Total Liabilities</td>
<td></td>
</tr>
<tr>
<td>4. Current Liabilities</td>
<td></td>
</tr>
<tr>
<td>5. Net Worth (1-3)</td>
<td></td>
</tr>
<tr>
<td>6. Net Working Capital (2-4)</td>
<td></td>
</tr>
</tbody>
</table>

B. The Net Financial Contracting Capacity (NFCC) based on the above data is computed as follows:

\[ NFCC = K \text{ (current asset - current liabilities)} \text{ minus value of all outstanding works under ongoing contracts including awarded contracts yet to be started} \]

\[ NFCC = P \frac{\text{current asset} - \text{current liabilities}}{K} \]

\[ K = 10 \text{ for a contract duration of one year or less, 15 for more than one year up to two years and 20 for more than two years} \]

Herewith attached are certified true copies of the income tax return and audited financial statement: stamped “RECEIVED” by the BIR or BIR authorized collecting agent for the immediately preceding year.

Submitted by:

__________________________
Name of Supplier / Distributor / Manufacturer

__________________________
Signature of Authorized Representative
Date: _______________________

NOTE:

1. If Partnership or Joint Venture, each Partner or Member Firm of Joint Venture shall submit the above requirements.
BID SECURITY
(BANK GUARANTEE)

WHEREAS, _Name of Bidder_ (hereinafter called “the Bidder”) has submitted his bid dated _Date_ for the _Name of Contract_ (hereinafter called “the Bid”).

KNOW ALL MEN by these presents that We _Name of Bank_ of _Name of Country_ having our registered office at _____________ (hereinafter called “the Bank”) are bound unto _Name of Employer_ (hereinafter called “the Employer”) in the sum of _____________ for which payment well and truly to be made to the said Employer the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this _____ day of ________ 20__.

THE CONDITIONS of this obligation are:

1) If the Bidder withdraws his Bid during the period of bid validity specified in the Form of Bid; or

2) If the Bidder does not accept the correction of arithmetical errors of his bid price in accordance with the Instructions to Bidder; or

3) If the Bidder having been notified of the acceptance of his bid by the Employer during the period of bid validity:
   a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
   b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

we undertake to pay to the Employer up to the above amount upon receipt of his first written demand, without the Employer having to substantiate his demand, provided that in his demand the Employer will note that the amount claimed by him is due to him owning to the occurrence of one or both of the two (2) conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date _____________ days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____________________________ SIGNATURE OF THE BANK ______________________

WITNESS ____________________________ SEAL _________________________________

_____________________________________
(Signature, Name and Address)

---

2 The bidder should insert the amount of the guarantee in words and figures, denominated in the currency of the Employer’s country or an equivalent amount in a freely convertible currency. This figure should be the same as shown in the Instructions to Bidders.

3 Usually 28 days after the end of the validity period of the Bid. Date should be inserted by the Employer before the bidding documents are issued.
BID SECURITY
SURETY BOND

BOND NO.: _______ DATE BOND EXECUTED: _______

By this bond, We __ (Name of Bidder)__ (hereinafter called “the Principal”) as Principal and __ (Name of Surety)__ of the country of __ (Name of Country of Surely)__, authorized to transact business in the country of __ (Name of Country of Employer)__, (hereinafter called “the Surety”) are held and firmly bound unto __ (Name of Employer)__ (hereinafter called “the Employer”) as Obligee, in the sum of ___________1 for the payment of which sum, well and truly to be made, we, the said Principal and Surety bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

SEALED with our seals and dated this ____ day of __________ 20 ______

WHEREAS, the Principal has submitted a written Bid to the Employer dated the _____ day of _________ 20 ____, for the _____________ (hereinafter called “the Bid”).

NOW, THEREFORE, the conditions of this obligation are:

1) If the Principal withdraws his Bid during the period of bid validity specified in the Form of Bid; or

2) If the Principal does not accept the correction of arithmetical errors of his bid price in accordance with the Instruction’s to Bidders: or

3) If the Principal having been notified of the acceptance of his Bid by the Employer during the period of bid validity:
   a) fails or refuses to execute the Form of Agreement in accordance with the Instructions to Bidders, if required; or
   b) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then this obligation shall remain in full force and effect, otherwise it shall be null and void.

1 The bidder should insert the amount of bond in words and figures, denominated in the currency of the Employer’s country of an equivalent amount in a freely convertible currency and callable on demand. This figure should be the same as shown in the Instructions to Bidders.
Provided however, that the Surety shall not be:

a) liable for a greater sum than the specified penalty of this bond, nor

b) liable for a greater sum that the difference between the amount of the said Principal’s Bid and the amount of the Bid that is accepted by the Employer.

This Surety executing this instrument hereby agrees that its obligation shall be valid for 120 calendar days after the deadline for submission of Bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived.

Principal ________________________ Surety ______________________________

Signature(s) ____________________ Signature(s) ________________________

Name(s) and Title(s) _____________ Name(s) __________________________

Seal ___________________________ Seal _________________________________
REPUBLIC OF THE PHILIPPINES
CITY OF __________________________)S.S.

BID-SECURING DECLARATION
Invitation to Bid No. ____________ [insert reference number]

To: BATANGAS STATE UNIVERSITY
RIZAL AVENUE, BATANGAS CITY

I / We, the undersigned, declare that:

1. I / we understand that, according to your conditions, bids must be supported by a Bid Security, which may be in the form of a Bid-Securing Declaration.

2. I / We accept that: (a) I / we will be automatically disqualified from bidding for any contract with any procuring entity for the period of two (2) years upon receipt of your Blacklisting Order; and (b) I / we will pay the applicable fine provided under Section 6 of the Guidelines on the Use of Bid Securing Declaration, if I / we have committed any of the following actions:
   i) Withdrawn my / our Bid during the period of bid validity required in the Bidding documents; or
   ii) Fail or refuse to accept the award and enter into contract or perform any and all acts necessary to the execution of the contract, in accordance with the Bidding Documents after having been notified of your acceptance of our Bid during the period of bid validity.

3. I / we understand that this Bid-Securing Declaration shall cease to be valid on the following circumstances:
   a) Upon expiration of the bid validity period, or any extension thereof pursuant to your request;
   b) I am / we are declared ineligible or post-disqualified upon receipt of your notice to such effect, and (i) I / we failed to timely file a request for reconsideration or (ii) I / we filed a waiver to avail of said right;
   c) I am / we are declared as the bidder with the Lowest Calculated and Responsive Bid / Highest Rated and Responsive Bid, and I / we have furnished the performance security and signed the Contract.

IN WITNESS WHEREOF, I / we have hereunto set my / our hand/s this ____ day of ____________, at __________________________.

Name of Bidder
Authorized Representative
Legal Capacity
Affiant
SUBSCRIBED AND SWORN to before me this ____ day of ________ at ______________________, Philippines. Affiant /s is / are personally known to me and was / were identified by me through competent evidence of identity as defined in the 2004 Rules on Notarial Practice (A.M.) No. 02-8-13-SC). Affiant/s exhibited to me his / her [insert type of government identification card used, with his / her photograph and signature appearing thereon, with no.____ and his / her Community Tax Certificate No. _______ issued on ______ at _______.

Witness my hand and seal this _____ day of ____________________.

NAME OF NOTARIAL PUBLIC
Serial No. of Commission _____________
Notary Public for _______ until _________
Roll of Attorney's No. ____________________
PTR No. ______, [date issued], [place issued]
IBP No. _______, [date issued], [place issued]

Doc. No. ____
Page No. _____
Book No. ______
Series of ______
# Conformity with Schedule of Requirements & Technical Specifications

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Section VI- Schedule of Requirements</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>UV-VIS SPECTROPHOTO-METER</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Hardware Specifications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Photometric system</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Double-beam optics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Czerny-Turner mounting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Double monochromator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Lo-Ray-ligh grade blazed holographic grating Detector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• R-928 Photomultiplier</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Light source</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 50 W halogen lamp, deuterium lamp, light source auto position adjustment built in</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Setting wavelength range</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• 185 ~1400nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wavelength accuracy</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• ±0.1 nm (656.1 nm D2), ±0.3 nm (all range)</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wavelength repeatability</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• ±0.05 nm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wavelength scanning speed</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Wavelength slew rate: about 14000 nm/min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Wavelength scan rate: about 4000 to 0.5 nm/min</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Wavelength setting</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• At 1 nm units for scan start and scan end wavelengths, and 0.1 nm units for other wavelengths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lamp interchange wavelength</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Auto switching synchronized with wavelength; switching range selectable between 290 and 370 nm (0.1 nm units)

**Spectral bandwidth**
- 0.1/0.2/0.5/1/2/5 nm
- L2/L5 (low stray-light mode)

**Resolution**
- 0.1 nm

**Stray light**
- Max. 0.00005 % (220 nm, NaI)
- Max. 0.00002 % (340, 370 nm, NaNO₂)
- Max. 1 % (198 nm, KCl)

**Photometric modes**
- Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)

**Photometric range**
- Absorbance: -8.5 to 8.5 Abs
- Transmittance, reflectance: 0 to 100000 %

**Photometric accuracy**
- ±0.002 Abs (0.5 Abs)
- ±0.003 Abs (1 Abs)
- ±0.006 Abs (2 Abs)
- ±0.3 % T
- Measured using NIST930D/NIST1930 or equivalent filter

**Photometric repeatability**
- ±0.001 Abs (0.5 Abs)
- ±0.001 Abs (1 Abs)
- ±0.003 Abs (2 Abs)

**Noise level**
- 0.00005 Abs RMS (500 nm)

**Baseline flatness**
- ±0.0004 Abs (200 ～ 860 nm), 1 hour after light source is turned ON
**Baseline stability**
Within 0.0003 Abs/h (700 nm), 1 hour after light source is turned ON

Sample compartment
- Internal dimensions: W150 × D260 × H140 (mm)
- Distance between light beams: 100 mm
- Maximum optical path length of cell: 100 mm

**Dimensions**
- W450 × D600 × H250 (mm)

**Weight**
- 23kg

**Operating temperature**
- 15°C to 35°C

**Operating humidity**
- 30 % to 80 % (no condensation, less than 70 % above 30 °C

**Power requirements**
- 100 to 240 VAC, 50/60 Hz
- Power consumption - 170VA

---

**SOFTWARE SPECIFICATIONS**

**UVProbe Software**

**Operating System**
- Windows 7 Professional/Vista Business (32 bits) Data Acquisition Modes Spectrum, Photometric (quantitation), and Kinetics (time course)

**General**
- Multitasking (possible to execute data processing while measurement is being performed)
- Customizable measurement screen layout (wavelengths, data display font and font size, colors, displayed number of digits)
- GLP/GMP compliant (security, history)
- Real-time concentration display
<table>
<thead>
<tr>
<th><strong>Spectrum Mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Comparison/interactive processing of multiple spectra <em>(Note 2)</em></td>
</tr>
<tr>
<td>• Storage of all processed data with original data set including a history of all manipulations</td>
</tr>
<tr>
<td>• Spectrum enlargement/shrinking and auto scale</td>
</tr>
<tr>
<td>• Automatic interlink with spectral data processing</td>
</tr>
<tr>
<td>• Annotation on spectrum screen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Data Processing in Spectrum Mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Normalization, Point Pick, peak/valley detection, area calculation</td>
</tr>
<tr>
<td>• 1st - 4th derivatives, smoothing, reciprocal, square root, natural log, Abs, %T conversion, exponential conversion, and Kubelka-Munk conversion</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Photometric (Quantitation) Mode</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Comparison/interactive processing of multiple time-course data <em>(Note 2)</em></td>
</tr>
<tr>
<td>• Single- or double-wavelength measurement (difference or ratio) Simultaneous display of time-course data, enzyme table, and graphs</td>
</tr>
<tr>
<td>• Enzyme kinetics calculation (for single- or multi-cell) Michaelis-Menten calculations and graph creation (Michaelis-Menten, Lineweaver-Burk, Hanes, Woolf, Eadie-Hofstee), Dixon plot, Hill plot</td>
</tr>
<tr>
<td>• Integrated management of sample information including original data, sample weight, and dilution factors, etc.</td>
</tr>
<tr>
<td>• Event recording such as addition of reagents during measurement</td>
</tr>
<tr>
<td>• Time-course spectrum data processing (same as in spectrum data processing)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Report Generator</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Preview and print functions for customized formats</td>
</tr>
<tr>
<td>• Layout and editing of templates</td>
</tr>
<tr>
<td>• Quick printing using report templates</td>
</tr>
<tr>
<td>• Auto-printing (spectrum mode)</td>
</tr>
<tr>
<td>• Multi-page printout</td>
</tr>
<tr>
<td>• Insertion of date, time, text, and drawing objects including lines, circles and rectangles</td>
</tr>
<tr>
<td>• Insertion of spectral/quantitative data, method, and history</td>
</tr>
<tr>
<td>• Specification of graph line thickness (for each module), font style, and size</td>
</tr>
</tbody>
</table>

| **UV Validation Software** |
- Inspection Items
- Initialization results log
- Wavelength accuracy
- Wavelength repeatability
- Photometric accuracy
- Photometric repeatability
- Resolution
- Stray light
- Baseline flatness
- Noise level
- Drift (baseline stability)

**Features**

- Select the items to implement during inspection to confirm the approximate time required for full inspection.
- The system is capable of both wavelength repeatability checks and wavelength accuracy checks using a wavelength calibration filter. If the optional mercury lamp unit is used, wavelength accuracy can be inspected using the low-pressure mercury lamp's bright line.

(Note)
1) The PC, CRT, and printer are not included as standard.
2) Depends on the specifications (including memory capacity) of the PC used. As a guideline, 20 to 30 sets of spectral data can be handled simultaneously

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*
## Section VI- Schedule of Requirements

<table>
<thead>
<tr>
<th>Item No.</th>
<th>FLOURESCENCE SPECTROMETER AND ACCESSORIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hardware Specifications:</strong></td>
<td><strong>REMARKS</strong></td>
</tr>
<tr>
<td>Light Source</td>
<td>150W Xenon lamp. Ozone resolving type lamp housing.</td>
</tr>
<tr>
<td>Excitation and emission monochromators</td>
<td>Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.</td>
</tr>
<tr>
<td>Wavelength scale</td>
<td>220-900nm.</td>
</tr>
<tr>
<td>Measuring wavelength range</td>
<td>Measuring wavelength range</td>
</tr>
<tr>
<td>Spectral bandwidth</td>
<td>6-step selection of 1.5, 3, 5, 10, 15 and 20nm. (6nm bandwidth is available for half sample height on the excitation side only.)</td>
</tr>
<tr>
<td>Wavelength accuracy</td>
<td>±1.5nm.</td>
</tr>
<tr>
<td>Light source compensation</td>
<td>Dynode feedback system with monochromatic light monitoring.</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>The S/N ratio is 150 or higher for the Raman line of distilled water (350nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98% of the full scale).</td>
</tr>
<tr>
<td>Wavelength scanning</td>
<td>7-step selection of Survey (about 5500nm/min), Super (about 3000nm/min), Very Fast, Fast, Medium, Slow and Very Slow.</td>
</tr>
<tr>
<td>Wavelength slewing speed</td>
<td>About 20,000nm/min.</td>
</tr>
<tr>
<td>Response</td>
<td>8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98% of the full scale.</td>
</tr>
<tr>
<td>Sensitivity selection</td>
<td>2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)</td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232C interface, interface for auto sampler, and interface for sipper unit.</td>
</tr>
<tr>
<td>Dimensions and weight</td>
<td>667W x 530D x 270H mm; 43 kg.</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100, 120, 220, 240V; 50/60Hz; 400VA.</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>15-35°C</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>40-80% (Below 70% with temperature higher than 30°C).</td>
</tr>
</tbody>
</table>
Software Specifications:

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Excitation, emission and synchronous spectrum measurement, time-course measurement, quantitation, automatic search of optimal excitation and emission wavelengths, PopUp Scan™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data processing</td>
<td>Arithmetic calculation between spectra and between a spectrum and a constant, smoothing, 1st through 4th derivatives, 1/Y, logarithmic conversion, data printout (with or without activity value computation), peak pick, point pick, area calculation, averaging (in quantitation), generation of calibration curves of 1st through 3rd order.</td>
</tr>
<tr>
<td>Filing</td>
<td>Save, recall, and delete, of data. Conversion into ASCII and DIF formats.</td>
</tr>
<tr>
<td>Data output</td>
<td>Automatic scale adjustment, readout of data at user-specified point, data print out (preview function provided), selection of colors and types of curves.</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Automatic monitoring of signal-to-noise ratio, monitoring of the run time of light</td>
</tr>
<tr>
<td>User interface</td>
<td>Speedbox (assign icons for commonly used menu commands)</td>
</tr>
<tr>
<td>Other functions</td>
<td>Data exchange via clipboard, auto response control, automatic shutter.</td>
</tr>
<tr>
<td>Pc instruments</td>
<td>IBM-PC/AT or 100% compatible; i486 or higher CPU; 8 Mbyte or larger main memory. Operates on MS-Windows version 3.1 or higher.</td>
</tr>
</tbody>
</table>

Accessories and consumables:

Spectroscopy Cells

The cells available include macro, semi-micro and ultra-micro with a range of different light paths; flow-through cells and cells for magnetic stirrers. All of the cells are suitable for any fluorescence Spectrophotometer which accommodates cells with a center height of 15 mm.

Front Surface accessory

The Front Surface accessory is ideal for analyzing films, papers, powders and other flat samples. The sample may be placed in the accessory directly or held in the powder holder that has a synthetic fused silica window. Ultra small volumes or viscous samples such as oils, opaque and turbid samples may be measured.
via the powder holder or cuvette.

**LC Flow Cell**
The LC flow cell for high sensitivity liquid chromatography is a good means of expanding the utility of the LS 45 or LS 55. Providing laboratories with an alternative to a dedicated LC fluorescence detector. The twin monochromators of the system enable accurate wavelength selection for maximum selectivity and sensitivity.

**Plate Reader accessory**
The Plate Reader accessory is a sensitive and easy-to-use way to measure fluorescence based assays in multiwell plates. Controlled from the LS 55, it is able to use a wide range of UV and Visible wavelengths ensuring the detection of virtually all fluorescent dyes used in for bio assays. Two programs are included in FL WinLab for the Plate Reader. One allows the user to create flexible wavelength programs for single end-point and kinetic analyses: The other allows the measurement of flat samples such as gels, and presents data as a 3D image. In addition, an optional plug-in program allows the user to collect up to 100 spectra per well.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*

<table>
<thead>
<tr>
<th>3</th>
<th><strong>MASS SPECTROPHOTO-METER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MASS SPECTROPHOTO-METER</strong></td>
<td>Mass Spectrometer Electron Ionization EI and Chemical Ionization CI</td>
</tr>
<tr>
<td><strong>HARDWARE</strong></td>
<td></td>
</tr>
<tr>
<td>• Vacuum Pumps: (nitrogen) air- cooled turbomolecular pump with minimum pumping of speed 200 liter per second with 2.5 to 2.9 m³/hr (50-60 Hz) rotary vanes. Vacuum Gauge: Standard single wide range</td>
<td></td>
</tr>
<tr>
<td>• Pump- Down time:255L/sec turbomolecular pump : &lt; 3min. for air/water: &lt; 90 min for quantitative stability</td>
<td></td>
</tr>
<tr>
<td>• EI: voltage 10-100ev</td>
<td></td>
</tr>
<tr>
<td>• Analyzer: Monolithic Hyperbolic Quadrupole(100°C-300°C)</td>
<td></td>
</tr>
<tr>
<td>• Detector: Ion Trap Detector (ITD) or equivalent Sealed long life photomultiplier</td>
<td></td>
</tr>
<tr>
<td>• Mass axis stability : +/-0.1 m/z accuracy over 48hrs</td>
<td></td>
</tr>
<tr>
<td>• Must have an ion gauge to display vacuum</td>
<td></td>
</tr>
</tbody>
</table>
# SENSITIVITY

<table>
<thead>
<tr>
<th>Test</th>
<th>Amount</th>
<th>Detection Limit (S/N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EI Full scan</td>
<td>1 pg of OctaFluoroNaphtalene (OFN)</td>
<td>180:1 RMS</td>
</tr>
<tr>
<td>Positive CI full scan</td>
<td>100 pg of Benophenone</td>
<td>300:1 RMS</td>
</tr>
<tr>
<td>Negative CI full scan</td>
<td>1 pg OFN</td>
<td>450:1 RMS</td>
</tr>
</tbody>
</table>

# PERFORMANCE

- Mass range: 1.0 to 1050 u (amu)
- Scan rate: Fully variable up to 12,500 amu/s
- Scanning sensitivity: 0.1 u (amu)
- High-Performance Selected Ion Monitoring (SIM) and Full Scan
- Auto SIM: Auto tune program for EI, PCI, NCI

# ACCESSORIES:

1. Micro Syringes 5 μl, 10 μl and 25 μl (3 each)
2. GAS CYLINDERS: The equipment should be provided with oxygen, nitrogen, hydrogen and air cylinders along with regulators, connectivity copper pipes and filters through local supplies.
3. Flow meter for normal gas flow measurement.

# Column

- FS-capillary DB-5MS, 30 m X 0.25 mm ID X 0.25 μm or equivalent
- 60 m X 0.32 mm X 1 μm DB-5MS column (or equivalent) with 1m X 0.25 mm deactivated fused silica transfer line
- GC column, 30 m X 0.32 mm X 3.0 μm DB-1 fused silica capillary column or equivalent

The system should have the capability of up gradation in future for:
Solvent Bypass - Eliminate early peaks. Heart Cut - Cut peaks to another column to find trace levels in a complex matrix. Backflush- Eliminate later/post-run peaks. Shorten cycle times; eliminate sample carryover, less column usage & lower detector maintenance cost. Splitting of column outlet as per
requirement to send all peaks to multiple detectors, to Obtain more information during each run. (Find peaks of interest in unknowns). Modulate (New) - Send faction of effluence to 2nd column for few seconds a time.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*
<p>| Item No. | Hardware Specifications | Photometric system | | | Light source | Setting wavelength range | Wavelength accuracy | Wavelength repeatability | Wavelength scanning speed | Wavelength setting | Lamp interchange wavelength | Auto switching synchronized with wavelength; switching range selectable between 290 and 370 nm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UV-VIS SPECTROPHOTO-METER | Double-beam optics | Czerny-Turner mounting | Double monochromator | Lo-Ray-ligh grade blazed holographic grating Detector | R-928 Photomultiplier | 50 W halogen lamp, deuterium lamp, light source auto position adjustment built in | 185 ~1400nm | ±0.1 nm (656.1 nm D2), ±0.3 nm (all range) | ±0.05nm | Wavelength slew rate: about 14000 nm/min | Wavelength scan rate: about 4000 to 0.5 nm/min |</p>
<table>
<thead>
<tr>
<th>Spectral bandwidth</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1/0.2/0.5/1/2/5 nm</td>
<td>0.1nm</td>
</tr>
<tr>
<td>L2/L5 (low stray-light mode)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stray light</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. 0.00005 % (220 nm, NaI)</td>
</tr>
<tr>
<td>Max. 0.00002 % (340, 370 nm, NaNO₂)</td>
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<td>Max. 1 % (198 nm, KCl)</td>
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<table>
<thead>
<tr>
<th>Photometric modes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorbance (Abs.), transmittance (%), reflectance (%), energy (E)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photometric range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absorbance: -8.5 to 8.5 Abs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transmittance, reflectance: 0 to 100000 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photometric accuracy</td>
</tr>
<tr>
<td>±0.002Abs (0.5Abs)</td>
</tr>
<tr>
<td>±0.003Abs (1Abs)</td>
</tr>
<tr>
<td>±0.006Abs (2Abs)</td>
</tr>
<tr>
<td>±0.3%T</td>
</tr>
<tr>
<td>Measured using NIST930D/NIST1930 or equivalent filter</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Photometric repeatability</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.001Abs (0.5Abs)</td>
</tr>
<tr>
<td>±0.001Abs (1Abs)</td>
</tr>
<tr>
<td>±0.003Abs (2Abs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Noise level</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.00005Abs RMS (500nm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Baseline flatness</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.0004Abs (200 ~860nm), 1 hour after light source is turned ON</td>
</tr>
</tbody>
</table>
### Baseline stability
Within 0.0003 Abs/h (700 nm), 1 hour after light source is turned ON

**Sample compartment**
- Internal dimensions: W150 × D260 × H140 (mm)
- Distance between light beams: 100 mm
- Maximum optical path length of cell: 100 mm

### Dimensions
- W450 × D600 × H250 (mm)

### Weight
- 23kg

### Operating temperature
- 15°C to 35°C

### Operating humidity
- 30 % to 80 % (no condensation, less than 70 % above 30 °C

### Power requirements
- 100 to 240 VAC, 50/60 Hz
- Power consumption - 170VA

### SOFTWARE SPECIFICATIONS
**UVProbe Software**

**Operating System**
- Windows 7 Professional/Vista Business (32 bits) Data Acquisition Modes Spectrum, Photometric (quantitation), and Kinetics (time course)

**General**
- Multitasking (possible to execute data processing while measurement is being performed)
- Customizable measurement screen layout (wavelengths, data display font and font size, colors, displayed number of digits)
- GLP/GMP compliant (security, history)
- Real-time concentration display
### Spectrum Mode
- Comparison/interactive processing of multiple spectra *(Note 2)*
- Storage of all processed data with original data set including a history of all manipulations
- Spectrum enlargement/shrinking and auto scale
- Automatic interlink with spectral data processing
- Annotation on spectrum screen

### Data Processing in Spectrum Mode
- Normalization, Point Pick, peak/valley detection, area calculation
- 1st - 4th derivatives, smoothing, reciprocal, square root, natural log, Abs, %T conversion, exponential conversion, and Kubelka-Munk conversion

### Photometric (Quantitation) Mode
- Comparison/interactive processing of multiple time-course data *(Note 2)*
- Single- or double-wavelength measurement (difference or ratio) Simultaneous display of time-course data, enzyme table, and graphs
- Enzyme kinetics calculation (for single- or multi-cell) Michaelis-Menten calculations and graph creation (Michaelis-Menten, Lineweaver-Burk, Hanes, Woolf, Eadie-Hofstee), Dixon plot, Hill plot
- Integrated management of sample information including original data, sample weight, and dilution factors, etc.
- Event recording such as addition of reagents during measurement
- Time-course spectrum data processing (same as in spectrum data processing)

### Report Generator
- Preview and print functions for customized formats
- Layout and editing of templates
- Quick printing using report templates
- Auto-printing (spectrum mode)
- Multi-page printout
- Insertion of date, time, text, and drawing objects including lines, circles and rectangles
- Insertion of spectral/quantitative data, method, and history
- Specification of graph line thickness (for each module), font style, and size

### UV Validation Software
• Inspection Items
• Initialization results log
• Wavelength accuracy
• Wavelength repeatability
• Photometric accuracy
• Photometric repeatability
• Resolution
• Stray light
• Baseline flatness
• Noise level
• Drift (baseline stability)

Features
• Select the items to implement during inspection to confirm the approximate time required for full inspection.
• The system is capable of both wavelength repeatability checks and wavelength accuracy checks using a wavelength calibration filter. If the optional mercury lamp unit is used, wavelength accuracy can be inspected using the low-pressure mercury lamp’s bright line.

(Note)
1) The PC, CRT, and printer are not included as standard.
2) Depends on the specifications (including memory capacity) of the PC used. As a guideline, 20 to 30 sets of spectral data can be handled simultaneously

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Section VI- Schedule of Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>FLOURESCENCE SPECTROMETER AND ACCESSORIES</td>
</tr>
<tr>
<td>Hardware Specifications:</td>
<td></td>
</tr>
<tr>
<td>Light Source</td>
<td>150W Xenon lamp. Ozone resolving type lamp housing.</td>
</tr>
<tr>
<td>Excitation and emission monochromators</td>
<td>Concave, blazed holographic grating, F/2.5, 1300 grooves/mm.</td>
</tr>
<tr>
<td>Wavelength scale</td>
<td>220-900nm.</td>
</tr>
<tr>
<td>Measuring wavelength range</td>
<td>Measuring wavelength range</td>
</tr>
<tr>
<td>Spectral bandwidth</td>
<td>6-step selection of 1.5, 3, 5, 10, 15 and 20nm. (6nm bandwidth is available for half sample height on the excitation side only.)</td>
</tr>
<tr>
<td>Wavelength accuracy</td>
<td>±1.5nm.</td>
</tr>
<tr>
<td>Light source compensation</td>
<td>Dynode feedback system with monochromatic light monitoring.</td>
</tr>
<tr>
<td>Sensitivity</td>
<td>The S/N ratio is 150 or higher for the Raman line of distilled water (350nm excitation wavelength, 5nm spectral bandwidth, and 2 second response for 98% of the full scale).</td>
</tr>
<tr>
<td>Wavelength scanning</td>
<td>7-step selection of Survey (about 5500nm/min), Super (about 300nm/min), Very Fast, Fast, Medium, Slow and Very Slow.</td>
</tr>
<tr>
<td>Wavelength slewing speed</td>
<td>About 20,000nm/min.</td>
</tr>
<tr>
<td>Response</td>
<td>8-step selection of 0.02, 0.03, 0.1, 0.25, 0.5, 2, 4, and 8 seconds for 98% of the full scale.</td>
</tr>
<tr>
<td>Sensitivity selection</td>
<td>2-steps of HIGH and LOW. (The sensitivity at HIGH is about 50 times that of LOW.)</td>
</tr>
<tr>
<td>Interface</td>
<td>RS-232C interface, interface for auto sampler, and interface for sipper unit.</td>
</tr>
<tr>
<td>Dimensions and weight</td>
<td>667W x 530D x 270H mm; 43 kg.</td>
</tr>
<tr>
<td>Power requirements</td>
<td>100, 120, 220, 240V; 50/60Hz; 400VA.</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>15-35°C</td>
</tr>
<tr>
<td>Operational temperature range</td>
<td>40-80% (Below 70% with temperature higher than 30°C).</td>
</tr>
</tbody>
</table>
## Software Specifications:

<table>
<thead>
<tr>
<th>Measurement</th>
<th>Excitation, emission and synchronous spectrum measurement, time-course measurement, quantitation, automatic search of optimal excitation and emission wavelengths, PopUp Scan™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data processing</td>
<td>Arithmetic calculation between spectra and between a spectrum and a constant, smoothing, 1st through 4th derivatives, 1/Y, logarithmic conversion, data printout (with or without activity value computation), peak pick, point pick, area calculation, averaging (in quantitation), generation of calibration curves of 1st through 3rd order.</td>
</tr>
<tr>
<td>Filing</td>
<td>Save, recall, and delete, of data. Conversion into ASCII and DIF formats.</td>
</tr>
<tr>
<td>Data output</td>
<td>Automatic scale adjustment, readout of data at user-specified point, data print out (preview function provided), selection of colors and types of curves.</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Automatic monitoring of signal-to-noise ratio, monitoring of the run time of light</td>
</tr>
<tr>
<td>User interface</td>
<td>Speedbox (assign icons for commonly used menu commands)</td>
</tr>
<tr>
<td>Other functions</td>
<td>Data exchange via clipboard, auto response control, automatic shutter.</td>
</tr>
<tr>
<td>Pc instruments</td>
<td>IBM-PC/AT or 100% compatible; i486 or higher CPU; 8 Mbyte or larger main memory. Operates on MS-Windows version 3.1 or higher.</td>
</tr>
</tbody>
</table>

## Accessories and consumables:

### Spectroscopy Cells

The cells available include macro, semi-micro and ultra-micro with a range of different light paths; flow-through cells and cells for magnetic stirrers. All of the cells are suitable for any fluorescence Spectrophotometer which accommodates cells with a center height of 15 mm.

### Front Surface accessory

The Front Surface accessory is ideal for analyzing films, papers, powders and other flat samples. The sample may be placed in the accessory directly or held in the powder holder that has a synthetic fused silica window. Ultra small volumes or viscous samples such as oils, opaque and turbid samples may be measured.
via the powder holder or cuvette.

**LC Flow Cell**
The LC flow cell for high sensitivity liquid chromatography is a good means of expanding the utility of the LS 45 or LS 55. Providing laboratories with an alternative to a dedicated LC fluorescence detector. The twin monochromators of the system enable accurate wavelength selection for maximum selectivity and sensitivity.

**Plate Reader accessory**
The Plate Reader accessory is a sensitive and easy-to-use way to measure fluorescence based assays in multiwell plates. Controlled from the LS 55, it is able to use a wide range of UV and Visible wavelengths ensuring the detection of virtually all fluorescent dyes used in for bio assays. Two programs are included in FL WinLab for the Plate Reader. One allows the user to create flexible wavelength programs for single end-point and kinetic analyses: The other allows the measurement of flat samples such as gels, and presents data as a 3D image. In addition, an optional plug-in program allows the user to collect up to 100 spectra per well.

*NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL)*

<table>
<thead>
<tr>
<th>3</th>
<th><strong>MASS SPECTROPHOTO-METER</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mass Spectrometer Electron Ionization EI and Chemical Ionization CI</td>
</tr>
<tr>
<td></td>
<td><strong>HARDWARE</strong></td>
</tr>
<tr>
<td></td>
<td>• Vacuum Pumps: (nitrogen) air- cooled turbomolecular pump with minimum pumping of speed 200 liter per second with 2.5 to 2.9 m³/hr (50-60 Hz) rotary vanes. Vacuum Gauge: Standard single wide range</td>
</tr>
<tr>
<td></td>
<td>• Pump- Down time:255L/sec turbomolecular pump : &lt; 3min. for air/water: &lt; 90 min for quantitative stability</td>
</tr>
<tr>
<td></td>
<td>• EI: voltage 10-100ev</td>
</tr>
<tr>
<td></td>
<td>• Analyzer : Monolithic Hyperbolic Quadrupole(100°C-300°C)</td>
</tr>
<tr>
<td></td>
<td>• Detector : Ion Trap Detector (ITD) or equivalent Sealed long life photomultiplier</td>
</tr>
<tr>
<td></td>
<td>• Mass axis stability : +/-0.1 m/z accuracy over 48hrs</td>
</tr>
<tr>
<td></td>
<td>• Must have an ion gauge to display vacuum</td>
</tr>
<tr>
<td>SENSITIVITY</td>
<td>Amount</td>
</tr>
<tr>
<td>----------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>EI Full scan</td>
<td>1 pg of OctaFluoroNaphthalene (OFN)</td>
</tr>
<tr>
<td>Positive CI full scan</td>
<td>100 pg of Benophenone</td>
</tr>
<tr>
<td>Negative CI full scan</td>
<td>1 pg OFN</td>
</tr>
</tbody>
</table>

**PERFORMANCE**

- Mass range: 1.0 to 1050 u (amu)
- Scan rate: Fully variable up to 12,500 amu/s
- Scanning sensitivity: 0.1 u (amu)
- High-Performance Selected Ion Monitoring (SIM) and Full Scan
- Auto SIM: Auto tune program for EI, PCI, NCI

**ACCESSORIES:**

1. Micro Syringes 5 μl, 10 μl and 25 μl (3 each)
2. GAS CYLINDERS: The equipment should be provided with oxygen, nitrogen, hydrogen and air cylinders along with regulators, connectivity copper pipes and filters through local supplies.
3. Flow meter for normal gas flow measurement.

**Column**

- FS-capillary DB-5MS, 30 m X 0.25 mm ID X 0.25 μm or equivalent
- 60 m X 0.32 mm X 1 μm DB-5MS column (or equivalent) with 1m X 0.25 mm deactivated fused silica transfer line
- GC column, 30 m X 0.32 mm X 3.0 μm DB-1 fused silica capillary column or equivalent

The system should have the capability of up gradation in future for:

- Solvent Bypass - Eliminate early peaks. Heart Cut - Cut peaks to another column to find trace levels in a complex matrix. Backflush - Eliminate later/post-run peaks. Shorten cycle times; eliminate sample carryover, less column usage & lower detector maintenance cost. Splitting of column outlet as per
| Requirement to send all peaks to multiple detectors, to obtain more information during each run. (Find peaks of interest in unknowns). Modulate (New) - Send faction of effluence to 2nd column for few seconds a time. | *NOTE: INCLUSION OF TRAINING (LOCAL and INTERNATIONAL) |
Omnibus Sworn Statement

REPUBLIC OF THE PHILIPPINES )
CITY/MUNICIPALITY OF ______ ) S.S.

AFFIDAVIT

I, [Name of Affiant], of legal age, [Civil Status], [Nationality], and residing at [Address of Affiant], after having been duly sworn in accordance with law, do hereby depose and state that:

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

   If a sole proprietorship: I am the sole proprietor of [Name of Bidder] with office address at [address of Bidder];

   If a partnership, corporation, cooperative, or joint venture: I am the duly authorized and designated representative of [Name of Bidder] with office address at [address of Bidder];

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

   If a sole proprietorship: As the owner and sole proprietor of [Name of Bidder], I have full power and authority to do, execute and perform any and all acts necessary to represent it in the bidding for [Name of the Project] of the [Name of the Procuring Entity];

   If a partnership, corporation, cooperative, or joint venture: I am granted full power and authority to do, execute and perform any and all acts necessary and/or to represent the [Name of Bidder] in the bidding as shown in the attached [state title of attached document showing proof of authorization (e.g., duly notarized Secretary's Certificate issued by the corporation or the members of the joint venture)];

3. [Name of Bidder] is not "blacklisted" or barred from bidding by the Government of the Philippines or any of its agencies, offices, corporations, or Local Government Units, foreign government/foreign or international financing institution whose blacklisting rules have been recognized by the Government Procurement Policy Board;

4. Each of the documents submitted in satisfaction of the bidding requirements is an authentic copy of the original, complete, and all statements and information provided therein are true and correct;

5. [Name of Bidder] is authorizing the Head of the Procuring Entity or its duly authorized representative(s) to verify all the documents submitted;

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

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

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

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

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

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

   a) Carefully examine all of the Bidding Documents;

   b) Acknowledge all conditions, local or otherwise, affecting the implementation of the Contract;

   c) Made an estimate of the facilities available and needed for the contract to be bid, if any; and

   d) Inquire or secure Supplemental/Bid Bulletin(s) issued for the [Name of the Project].

IN WITNESS WHEREOF, I have hereunto set my hand this ___ day of ___, 20__, at __________, Philippines.

_____________________________________________________
Bidder’s Representative/Authorized Signatory

[JURAT]
REQUEST FOR CLARIFICATION

Date of Letter

ENGR. ROGELIO A. ANTENOR
BAC Chairman
Batangas State University
Rizal Avenue, Batangas City
Telephone No.: (043) 300-2202 local 102

Dear Sir:

In relation to the Section ____ of Page ____ of the Bidding Documents for (Name of the Project), to wit:

“____ (Quote unclear provision) ____”

We would appreciate it if you could provide further explanation or clarification on the above. Thank you very much.

Very truly yours,

Name of Representative of the Bidder
Name of the Bidder
## Bill of Quantities

Name of Bidder _________________ . Invitation to Bid Number __ . Page __ of __.

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Item</td>
<td>Description</td>
<td>Country of origin</td>
<td>Quantity</td>
<td>Unit price FOB per item</td>
<td>Cost of local labor, raw material, and component</td>
<td>Total price FOB per item (cols. 4 x 5)</td>
<td>Unit prices per item final destination and unit price of other incidental services</td>
<td>Sales and other taxes payable per item if Contract is awarded</td>
</tr>
<tr>
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</tbody>
</table>