
Request for Bids Goods

(Two-Envelope Bidding Process)

Procurement of:

Supply, Installation and Commissioning of
Equipment for Semiconductor Lab

RFB No: EDGE-G13B1

Project: Enhancing Digital Government and Economy (EDGE) Project

Purchaser: Bangladesh Computer Council (BCC)

Country: Bangladesh

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders

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Section I - Instructions to Bidders

A. General

1. Scope of Bid

1.1 In connection with the Specific Procurement Notice, Request for Bids (RFB), specified **in the Bid Data Sheet (BDS)**, the Purchaser, as specified **in the BDS**, issues this bidding document for the supply of Goods and, if applicable, any Related Services incidental thereto, as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this RFB are specified **in the BDS**.

1.2 Throughout this bidding document:

- (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, including, if **specified in the BDS**, distributed or received through the electronic-procurement system used by the Purchaser), with proof of receipt;
- (b) if the context so requires, “singular” means “plural” and vice versa; and
- (c) “Day” means calendar day, unless otherwise specified as “Business Day”. A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower’s official public holidays.

2. Source of Funds

2.1 The Borrower or Recipient (hereinafter called “Borrower”) specified **in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount specified **in the BDS**, toward the project named **in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which this bidding document is issued.

2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the

Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Fraud and Corruption

- 3.1 The Bank requires compliance with the Bank's Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework, as set forth in Section VI, Fraud and Corruption.
- 3.2 In further pursuance of this policy, bidders shall permit and shall cause their agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit the Bank to inspect all accounts, records and other documents relating to any initial selection process, prequalification process, bid submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Bank.

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, a state-owned enterprise or institution (subject to ITB 4.6), or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified **in the BDS**, there is no limit on the number of members in a JV.

4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:

- (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or
- (b) receives or has received any direct or indirect subsidy from another Bidder; or
- (c) has the same legal representative as another Bidder; or
- (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Purchaser regarding this Bidding process; or
- (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
- (f) or any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
- (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS reference ITB 2.1 (the name of the project), that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
- (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the Contract, and/or the

Bid evaluation process of such Contract; or
(ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Bidding process and execution of the Contract.

- 4.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor. Such participation shall result in the disqualification of all Bids in which the firm is involved. A firm that is not a Bidder or a JV member, may participate as a subcontractor in more than one Bid.
- 4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including related Services.
- 4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d. shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS.
- 4.6 Bidders that are state-owned enterprises or institutions in the Purchaser's Country may be eligible to compete and be awarded a Contract(s)

only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Purchaser.

4.7 A Bidder shall not be under suspension from Bidding by the Purchaser as the result of the operation of a Bid-Securing Declaration or Proposal-Securing Declaration.

4.8 Firms and individuals may be ineligible if so indicated in Section V, Eligible Countries, and:

- (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply of goods or the contracting of works or services required; or
- (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

4.9 A Bidder shall provide such documentary evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.

4.10 A firm that is under a sanction of debarment by the Borrower from being awarded a contract is eligible to participate in this procurement, unless the Bank, at the Borrower's request, is satisfied that the debarment;

- (a) relates to fraud or corruption; and
- (b) followed a judicial or administrative proceeding that afforded the firm adequate due process.

5. Eligible Goods and Related Services

5.1 All the Goods and Related Services to be supplied under the Contract and financed by the Bank may have their origin in any country in accordance with Section V, Eligible Countries.

5.2 For purposes of this ITB, the term "goods" includes commodities, raw material, machinery,

equipment, and industrial plants; and “related services” includes services such as insurance, installation, training, and initial maintenance.

- 5.3 The term “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or, through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.

B. Contents of Request for Bids Document

6. Sections of Bidding Document

- 6.1 The bidding document consist of Parts 1, 2, and 3, which include all the sections indicated below, and should be read in conjunction with any addenda issued in accordance with ITB 8.

PART 1 Bidding Procedures

- Section I - Instructions to Bidders (ITB)
- Section II - Bidding Data Sheet (BDS)
- Section III - Evaluation and Qualification Criteria
- Section IV - Bidding Forms
- Section V - Eligible Countries
- Section VI - Fraud and Corruption

PART 2 Supply Requirements

- Section VII - Schedule of Requirements

PART 3 Contract

- Section VIII - General Conditions of Contract
- Section IX - Special Conditions of Contract
- Section X - Contract Forms

- 6.2 The Specific Procurement Notice - Request for Bids (RFB) issued by the Purchaser is not part of this bidding document.
- 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for

clarification, the Minutes of the pre-Bid meeting (if any), or addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.

- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to furnish with its Bid all information or documentation as is required by the bidding document.

7. Clarification of the Bidding Document

- 7.1 A Bidder requiring any clarification of the bidding document shall contact the Purchaser in writing at the Purchaser's address specified **in the BDS**. The Purchaser will respond in writing to any request for clarification, provided that such request is received prior to the deadline for submission of Bids within a period specified **in the BDS**. The Purchaser shall forward copies of its response to all Bidders who have acquired the bidding document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so specified **in the BDS**, the Purchaser shall also promptly publish its response at the web page identified **in the BDS**. Should the clarification result in changes to the essential elements of the bidding document, the Purchaser shall amend the bidding document following the procedure under ITB 8 and ITB 22.2.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of Bids, the Purchaser may amend the bidding document by issuing addenda.
- 8.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document from the Purchaser in accordance with ITB 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITB 7.1.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Purchaser may, at its

discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

9. Cost of Bidding

- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Bidding process.

10. Language of Bid

- 10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Purchaser, shall be written in the language specified **in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages into the language specified **in the BDS**, in which case, for purposes of interpretation of the Bid, such translation shall govern.

11. Documents comprising Bid

- 11.1 The Bid shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (two-envelope Bidding process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes shall be enclosed in a separate sealed outer envelope marked “ORIGINAL BID”.
- 11.2 The **Technical Part** shall contain the following:
- (a) **Letter of Bid - Technical Part:** prepared in accordance with ITB 12;
 - (b) **Bid Security or Bid-Securing Declaration:** in accordance with ITB 19.1;
 - (c) **Alternative Bid - Technical Part:** if permissible in accordance with ITB 13, the Technical Part of any Alternative Bid;
 - (d) **Authorization:** written confirmation authorizing the signatory of the Bid to

commit the Bidder, in accordance with ITB 20.3;

- (e) **Bidder's Eligibility:** documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to Bid;
- (f) **Qualifications:** documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted;
- (g) **Eligibility of Goods and Related Services:** documentary evidence in accordance with ITB 16, establishing the eligibility of the Goods and Related Services to be supplied by the Bidder;
- (h) **Conformity:** documentary evidence in accordance with ITB 16, that the Goods and Related Services conform to the bidding document;
- (i) any other document **required in the BDS.**

11.3 The **Financial Part** envelope shall contain the following:

- (a) **Letter of Bid – Financial Part:** prepared in accordance with ITB 12 and ITB 14;
- (b) **Price Schedules:** completed prepared in accordance with ITB 12 and ITB 14;
- (c) **Alternative Bid - Financial Part;** if permissible in accordance with ITB 13, the Financial Part of any Alternative Bid;
- (d) any other document **required in the BDS.**

11.4 The Technical Part shall not include any financial information related to the Bid price. Where material financial information related to the Bid price is contained in the Technical Part the Bid shall be declared non-responsive.

11.5 In addition to the requirements under ITB 11.2, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and

submitted with the Bid, together with a copy of the proposed Agreement.

- 11.6 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

12. Letters of Bid

- 12.1. The Bidder shall prepare the Letter of Bid – Technical Part, and Letter of Bid – Financial Part using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 20.3. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

- 13.1. Unless otherwise **specified in the BDS**, Alternative Bids shall not be considered.

14. Bid prices and Discounts

- 14.1 The prices and discounts quoted by the Bidder in the Letter of Bid - Financial Part and in the Price Schedules shall conform to the requirements specified below.
- 14.2 All lots (contracts) and items must be listed and priced separately in the Price Schedules.
- 14.3 The price to be quoted in the Letter of Bid - Financial Part, in accordance with ITB 12.1 shall be the total price of the Bid, excluding any discounts offered.
- 14.4 The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid - Financial Part, in accordance with ITB 12.1.
- 14.5 Prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account, unless otherwise **specified in the BDS**. A Bid submitted with an adjustable price quotation shall be treated as nonresponsive and shall be rejected, pursuant to ITB 31. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid submitted with a fixed price

quotation shall not be rejected, but the price adjustment shall be treated as zero.

- 14.6 If so specified in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified **in the BDS**, prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. **However, discounts that are conditional on the award of more than one lot will not be considered for bid evaluation purpose.**

- 14.7 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce, as specified **in the BDS.**

- 14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:

- (a) For Goods manufactured in the Purchaser'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 on the

components and raw material used in the manufacture or assembly of the Goods;

- (ii) any Purchaser's Country sales tax and other taxes which will be payable on the Goods if the Contract is awarded to the Bidder; and
 - (iii) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified **in the BDS.**
- (b) For Goods manufactured outside the Purchaser's Country, to be imported:
 - (i) the price of the Goods, quoted CIP named place of destination, in the Purchaser's Country, as specified **in the BDS;**
 - (ii) the price for inland transportation, insurance, and other local services required to convey the Goods from the named place of destination to their final destination (Project Site) specified **in the BDS;**
- (c) For Goods manufactured outside the Purchaser's Country, already imported:
 - (i) the price of the Goods, including the original import value of the Goods; plus any mark-up (or rebate); plus any other related local cost, and custom duties and other import taxes already paid or to be paid on the Goods already imported.
 - (ii) the custom duties and other import taxes already paid (need to be supported with documentary evidence) or to be paid on the Goods already imported;
 - (iii) the price of the Goods, obtained as the difference between (i) and (ii) above;
 - (iv) any Purchaser's Country sales and other taxes which will be payable on

the Goods if the Contract is awarded to the Bidder; and

- (v) the price for inland transportation, insurance, and other local services required to convey the Goods to their final destination (Project Site) specified **in the BDS**.
- (d) for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of Requirements:
 - (i) the price of each item comprising the Related Services (inclusive of any applicable taxes).

15. Currencies of Bid and Payment

- 15.1 The currency(ies) of the Bid and the currency(ies) of payments shall be the same. The Bidder shall quote in the currency of the Purchaser's Country the portion of the Bid price that corresponds to expenditures incurred in the currency of the Purchaser's country, unless otherwise specified **in the BDS**.
- 15.2 The Bidder may express the Bid price in any currency. If the Bidder wishes to be paid in a combination of amounts in different currencies, it may quote its price accordingly but shall use no more than three foreign currencies in addition to the currency of the Purchaser's Country.

16. Documents Establishing the Eligibility and Conformity of the Goods and Related Services

- 16.1 To establish the eligibility of the Goods and Related Services in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 16.2 To establish the conformity of the Goods and Related Services to the bidding document, the Bidder shall furnish as part of its Bid the documentary evidence that the Goods conform to the technical specifications and standards specified in Section VII, Schedule of Requirements.
- 16.3 The documentary evidence may be in the form of literature, drawings or data, and shall consist of a

detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

- 16.4 The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified **in the BDS** following commencement of the use of the goods by the Purchaser.
- 16.5 Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

17. Documents Establishing the Eligibility and Qualifications of the Bidder

- 17.1 To establish Bidder's eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid – Technical Part, included in Section IV, Bidding Forms.
- 17.2 The documentary evidence of the Bidder's qualifications to perform the Contract, if its Bid is accepted, shall establish to the Purchaser's satisfaction:
 - (a) that, if required **in the BDS**, a Bidder that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization using the form included in Section IV, Bidding Forms to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods

to supply these Goods in the Purchaser's Country;

- (b) that, if required **in the BDS**, in case of a Bidder not doing business within the Purchaser's Country, the Bidder is or will be (if awarded the Contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and
- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

18. Period of Validity of Bids

- 18.1. Bids shall remain valid until the date **specified in the BDS** or any extended date if amended by the Purchaser in accordance with ITB 8. A Bid that is not valid until the date **specified in the BDS**, or any extended date if amended by the Purchaser in accordance with ITB 8, shall be rejected by the Purchaser as nonresponsive.
- 18.2. In exceptional circumstances, prior to the expiry of the Bid validity, the Purchaser may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. If a Bid Security is requested (in accordance with ITB 19), it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 18.3.
- 18.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity, the Contract price shall be determined as follows:
 - (a) In the case of fixed price contracts, the Contract price shall be the Bid price adjusted by the factor **specified in the BDS**.
 - (b) In the case of adjustable price contracts, no adjustment shall be made.

- (c) In any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above.

19. Bid Security

- 19.1. The Bidder shall furnish, as part of the Technical Part of its Bid, either a Bid-Securing Declaration or a Bid Security, as specified **in the BDS**, in original form and, in the case of a Bid security, in the amount and currency specified **in the BDS**.
- 19.2. A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.
- 19.3. If a Bid Security is specified pursuant to ITB 19.1, the Bid security shall be a demand guarantee in any of the following forms at the Bidder's option:
 - (a) an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company);
 - (b) an irrevocable letter of credit;
 - (c) a cashier's or certified check; or
 - (d) another security **specified in the BDS**,
from a reputable source from an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Purchaser's Country the issuing non-bank financial institution shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable unless the Purchaser has agreed in writing, prior to Bid submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Bid security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Purchaser prior to Bid submission. The Bid security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date if requested under ITB 18.2.
- 19.4. If a Bid Security is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially

responsive Bid Security shall be rejected by the Purchaser as non-responsive.

19.5. If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB 49.

19.6. The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.

19.7. The Bid Security may be forfeited:

- (a) if a Bidder withdraws its Bid prior to the expiry date of Bid validity specified by the Bidder on the Letter of Bid or any extended date provided by the Bidder ; or
- (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 48; or
 - (ii) furnish a performance security in accordance with ITB 49.

19.8. The Bid Security or Bid-Securing Declaration of a JV must be in the name of the JV that submits the Bid. If the JV has not been legally constituted into a legally enforceable JV at the time of Bidding, the Bid security or Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.5.

19.9. If a Bid security is **not required in the BDS**, pursuant to ITB 19.1, and

- (a) if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Letter of Bid, or any extended date provided by the Bidder, or
- (b) if the successful Bidder fails to: sign the Contract in accordance with ITB 48; or furnish a performance security in accordance with ITB 49;

the Borrower may, **if provided for in the BDS**, declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of time **as stated in the BDS**.

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare the Bid, in accordance with ITB 11 and ITB 21.
- 20.2 Bidders shall mark as “CONFIDENTIAL” information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation **as specified in the BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.
- 20.4 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 20.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission of Bids

21. Sealing and Marking of Bids

- 21.1 The Bidder shall deliver the Bid in two separate, sealed **envelopes** (the Technical Part and the Financial Part). These two envelopes shall be enclosed in a sealed outer envelope marked “ORIGINAL BID”.
- 21.2 In addition, the Bidder shall submit copies of the Bid in the number specified **in the BDS**. Copies of the Technical Part shall be placed in a separate sealed envelope marked “COPIES: TECHNICAL PART”. Copies of the Financial Part shall be placed

in a separate sealed envelope marked “COPIES: FINANCIAL PART”. The Bidder shall place both of these envelopes in a separate, sealed outer envelope marked “BID COPIES”. In the event of any discrepancy between the original and the copies, the original shall prevail. If alternative Bids are permitted in accordance with ITB 13, the alternative Bids shall be submitted as follows: the original of the alternative Bid Technical Part shall be placed in a sealed envelope marked “ALTERNATIVE BID – TECHNICAL PART” and the Financial Part shall be placed in a sealed envelope marked “ALTERNATIVE BID – FINANCIAL PART” and these two separate sealed envelopes then enclosed within a sealed outer envelope marked “ALTERNATIVE BID – ORIGINAL”, the copies of the alternative Bid will be placed in separate sealed envelopes marked “ALTERNATIVE BID – COPIES OF TECHNICAL PART”, and “ALTERNATIVE BID – COPIES OF FINANCIAL PART” and enclosed in a separate sealed outer envelope marked “ALTERNATIVE BID - COPIES”.

21.3 The envelopes marked “ORIGINAL BID” and “BID COPIES” (and, if appropriate, a third envelope marked “ALTERNATIVE BID”) shall be enclosed in a separate sealed outer envelope for submission to the Purchaser.

21.4 All inner and outer envelopes, shall:

- (a) bear the name and address of the Bidder;
- (b) be addressed to the Purchaser in accordance with ITB 22.1;
- (c) bear the specific identification of this Bidding process indicated in ITB 1.1; and
- (d) bear a warning not to open before the time and date for Bid opening.

21.5 If all envelopes are not sealed and marked as required, the Purchaser will assume no responsibility for the misplacement or premature opening of the Bid.

22. Deadline for Submission of Bids

22.1. Bids must be received by the Purchaser at the address and no later than the date and time specified **in the BDS**. When so specified **in the**

BDS, Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the electronic Bid submission procedures specified **in the BDS**.

- 22.2. The Purchaser may, at its discretion, extend the deadline for the submission of Bids by amending the bidding document in accordance with ITB 8, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

23. Late Bids

- 23.1. The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 22. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

- 24.1. A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:
- (a) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and
 - (b) received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.
- 24.2. Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.
- 24.3. No Bid may be withdrawn, substituted, or modified 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 Letter of Bid -Technical Part and repeated in the Letter of Bid - Financial Part, or any extension thereof.

E. Public Opening of Technical Parts of Bids

25. Public Opening of Technical Parts of Bids

- 25.1. Except as in the cases specified in ITB 23 and ITB 24.2, the Purchaser shall, at this Bid opening, publicly open and read out, in accordance with this ITB, all bids received by the deadline at the date, time and place specified **in the BDS** in the presence of Bidders' designated representatives and anyone who chooses to attend. Any specific electronic Bid opening procedures required if electronic Bidding is permitted in accordance with ITB 22.1, shall be as specified **in the BDS**.
- 25.2. First, the written notice of withdrawal in the envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. If the withdrawal envelope does not contain a copy of the "power of attorney" confirming the signature as a person duly authorized to sign on behalf of the Bidder, the corresponding Bid will be opened. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Bid opening.
- 25.3. Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Bid being substituted, and the substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid opening.
- 25.4. Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only

Bids that are opened and read out at Bid opening shall be considered further.

- 25.5. Next, all other envelopes marked “TECHNICAL PART” shall be opened one at a time. All envelopes marked “FINANCIAL PART” shall remain sealed, and kept by the Purchaser in safe custody until they are opened, at a later public opening, following the evaluation of the Technical Part of the Bids. On opening the envelopes marked “TECHNICAL PART” the Purchaser shall read out: the name of the Bidder and whether there is a modification; and Alternative Bid the presence or absence of a Bid Security, if required and any other details as the Purchaser may consider appropriate.
- 25.6. Only Technical Parts of Bids and Alternative Bid - Technical Parts that are read out at Bid opening shall be considered further in the evaluation. The Letter of Bid – Technical Part and the separate sealed envelope marked “FINANCIAL PART” are to be initialed by representatives of the Purchaser attending Bid opening in the manner specified **in the BDS.**
- 25.7. At the Bid opening the Purchaser shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).
- 25.8. Following the opening of the Technical Parts of the Bid the Purchaser shall prepare a record that shall include, as a minimum:
- (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;
 - (b) the presence or absence of a duly sealed envelope marked “FINANCIAL PART”;
 - (c) the presence or absence of a Bid Security or Bid-Securing Declaration; and
 - (d) if applicable, any Alternative Bid - Technical Part;
- 25.9. The Bidders’ representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the

record. A copy of the record shall be distributed to all Bidders.

F. Evaluation of Bids - General Provisions

26. Confidentiality

- 26.1 Information relating to the evaluation of the Technical Part shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the notification of evaluation of the Technical Part in accordance with ITB 33. Information relating to the evaluation of Financial Part, the evaluation of combined Technical Part and Financial Part, and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with the RFB process until the Notification of Intention to Award the Contract is transmitted to Bidders in accordance with ITB 43.
- 26.2 Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid.
- 26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the Bidding process, it should do so in writing.

27. Clarification of Bids

- 27.1 To assist in the examination, evaluation, comparison of the Bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its Bid. Any clarification submitted by a Bidder in respect to its Bid and that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the Evaluation of the Bids, in accordance with ITB 35.
- 27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Purchaser's request for clarification, its Bid may be rejected.

**28. Deviations, Reservations,
and Omissions**

28.1 During the evaluation of Bids, the following definitions apply:

- (a) “Deviation” is a departure from the requirements specified in the bidding document;
- (b) “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and

28.2 “Omission” is the failure to submit part or all of the information or documentation required in the bidding document.

**29. Nonconformities, Errors and
Omissions**

29.1 Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the Bid.

29.2 Provided that a Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Bid related to documentation requirements. Such omission shall not be related to any aspect of the price of the Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

G. Evaluation of Technical Parts of Bids

**30. Evaluation of Technical
Parts**

30.1 In evaluating the Technical Parts of each Bid, the Purchaser shall use the criteria and methodologies listed in ITB 31, ITB 32, the BDS, if applicable, and Section III, Evaluation and Qualification Criteria. No other evaluation criteria or methodologies shall be permitted.

**31. Determination of
Responsiveness**

31.1 The Purchaser’s determination of a Bid’s responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11. A substantially responsive Bid is one that meets the requirements of the bidding document without material deviation, reservation, or omission. A

material deviation, reservation, or omission is one that:

- (a) if accepted, would:
 - (i) affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the bidding document, the Purchaser's rights or the Bidder's obligations under the Contract; or
- (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

31.2 The Purchaser shall examine the technical aspects of the Bid submitted in accordance with ITB 16 and ITB 17, in particular, to confirm that all requirements of Section VII, Schedule of Requirements have been met without any material deviation or reservation, or omission.

31.3 If a Bid is not substantially responsive to the requirements of bidding document, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

32. Qualification of the Bidders and Detailed Evaluation of the Technical Part

32.1 The Purchaser shall determine, to its satisfaction, whether all eligible Bidders, whose Bids have been determined to be substantially responsive to the bidding document, meet the Qualification Criteria specified in Section III, Evaluation and Qualification Criteria.

32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 17. The determination shall not take into consideration the qualifications of other firms such as the Bidder's subsidiaries, parent entities, affiliates, subcontractors (other than specialized subcontractors if permitted in the bidding document), or any other firm different from the Bidder.

- 32.3 Prior to Contract award, the Purchaser will verify that the successful Bidder (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH prevention and response obligations. The Purchaser will conduct the same verification for each subcontractor proposed by the successful Bidder. If any proposed subcontractor does not meet the requirement, the Purchaser will require the Bidder to propose a replacement subcontractor.
- 32.4 Only substantially responsive bids submitted by eligible and qualified bidders shall proceed to the detailed technical evaluation to assess adequacy of the Technical Part followed by evaluation applying technical factors/subfactors and corresponding scores and weightings as specified in the BDS.

H. Notification of Evaluation of Technical Parts and Public Opening of Financial Parts of Bids

33. Notification of Evaluation of Technical Parts and Public Opening of Financial Parts

- 33.1 Following the completion of the evaluation of the Technical Parts of the Bids, and the Bank has issued its no objection (if applicable), the Purchaser shall notify in writing those Bidders who have failed to meet the Qualification Criteria and/or whose Bids were considered non-responsive to the requirements in the bidding document, advising them of the following information:
- (a) the grounds on which their Technical Part of Bid failed to meet the requirements of the bidding document;
 - (b) their envelope marked “FINANCIAL PART” will be returned to them unopened after the completion of the bid evaluation process and the signing of the Contract;
 - (c) notify them of the date, time and location of the public opening of the envelopes marked “FINANCIAL PART”.
- 33.2 The Purchaser shall, simultaneously, notify in writing those Bidders whose Technical Parts have been evaluated as substantially responsive to the bidding document and met the

Qualification Criteria, advising them of the following information:

- (a) their Bid has been evaluated as substantially responsive to the bidding document and met the Qualification Criteria; and
- (b) their envelope marked “FINANCIAL PART” will be opened at the public opening of Financial Parts;
- (c) notify them of the date, time and location of the public opening of the envelopes marked “FINANCIAL PART”.

33.3 The opening date shall be not less than ten (10) Business Days from the date of notification of the results of the technical evaluation, specified in ITB 33.1 and 33.2. However, if the Purchaser receives a complaint on the results of the technical evaluation within the ten (10) Business Days, the opening date shall be subject to ITB 50.1. The Financial Part of the Bid shall be opened publicly in the presence of Bidders’ designated representatives and anyone who chooses to attend.

33.4 At this public opening the Financial Parts will be opened by the Purchaser in the presence of Bidders, or their designated representatives and anyone else who chooses to attend. Bidders who met the Qualification Criteria and whose Bids were evaluated as substantially responsive will have their envelopes marked “FINANCIAL PART” opened at the second public opening. Each of these envelopes marked “FINANCIAL PART” shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Purchaser. The Purchaser shall read out the names of each Bidder, the technical score and the total Bid prices, per lot (contract) if applicable, including any discounts and Alternative Bid - Financial Part, and any other details as the Purchaser may consider appropriate.

33.5 Only envelopes of Financial Part of Bids, Financial Parts of Alternative Bids and discounts that are opened and read out at Bid opening shall be considered further for evaluation. The Letter of

Bid - Financial Part and the Price Schedules are to be initialed by a representative of the Purchaser attending the Bid opening in the manner specified **in the BDS**.

- 33.6 The Purchaser shall neither discuss the merits of any Bid nor reject any envelopes marked "FINANCIAL PART".
- 33.7 The Purchaser shall prepare a record of the Financial Part of the Bid opening that shall include, as a minimum:
- (a) the name of the Bidder whose Financial Part was opened;
 - (b) the Bid price, per lot (contract) if applicable, including any discounts,
 - (c) if applicable, any Alternative Bid - Financial Part.
- 33.8 The Bidders whose envelopes marked "FINANCIAL PART" have been opened or their representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

I. Evaluation of Financial Parts of Bids

34. Evaluation of Financial Parts

- 34.1 Provided that a Bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Purchaser shall use its best estimate.
- 34.2 To evaluate the Financial Part of each Bid, the Purchaser shall consider the following:
- (a) evaluation will be done for Items or Lots (contracts), as specified **in the BDS**; and

the Bid Price as quoted in accordance with ITB 14;

- (b) price adjustment for correction of arithmetic errors in accordance with ITB 35.1;
- (c) price adjustment due to discounts offered in accordance with ITB 14.4;
- (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 36;
- (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 34.1; and
- (f) the additional evaluation factors specified in Section III, Evaluation and Qualification Criteria.

34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.

34.4 If this bidding document allows Bidders to quote separate prices for different lots (contracts), each lot will be evaluated separately to determine the Most Advantageous Bid using the methodology specified in Section III, Evaluation and Qualification Criteria. **Discounts that are conditional on the award of more than one lot or slice shall not be considered for Bid evaluation.**

34.5 The Purchaser's evaluation of a Bid will exclude and not take into account:

- (a) in the case of Goods manufactured in the Purchaser's Country, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
- (b) in the case of Goods manufactured outside the Purchaser's Country, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;

- (c) any allowance for price adjustment during the period of execution of the contract, if provided in the Bid.

34.6 The Purchaser's evaluation of a Bid may require the consideration of other factors, in addition to the Bid price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified **in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.2 (f).

35. Correction of Arithmetic Errors

35.1 In evaluating the Financial Part of each Bid, the Purchaser shall correct arithmetic errors on the following basis:

- (a) if there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total shall be corrected, unless in the opinion of the Purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the line item total as quoted shall govern and the unit price shall be corrected;
- (b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- (c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

35.2 Bidders shall be requested to accept correction of arithmetic errors. Failure to accept the correction in

accordance with ITB 35.1, shall result in the rejection of the Bid.

36. Conversion to Single Currency

- 36.1 For evaluation and comparison purposes, the currency(ies) of the Bids shall be converted in a single currency as specified **in the BDS**.

37. Margin of Preference

- 37.1 Unless otherwise specified **in the BDS**, a margin of preference shall not apply.

38. Comparison of Financial Parts

- 38.1 The Purchaser shall compare the evaluated costs of the Bids to determine the Bid that has the lowest evaluated cost. The comparison shall be on the basis of CIP (place of final destination) prices for imported goods and EXW prices, plus cost of inland transportation and insurance to place of destination, for goods manufactured within the Borrower's country, together with prices for any required installation, training, commissioning and other services. The evaluation of prices shall not take into account custom duties and other taxes levied on imported goods quoted CIP and sales and similar taxes levied in connection with the sale or delivery of goods.

39. Abnormally Low Bids

- 39.1 An Abnormally Low Bid is one where the Bid price, in combination with other elements of the Bid, appears so low that it raises material concerns with the Purchaser as to the capability of the Bidder to perform the Contract for the offered Bid Price.
- 39.2 In the event of identification of a potentially Abnormally Low Bid, the Purchaser shall seek written clarification from the Bidder, including a detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, delivery schedule, allocation of risks and responsibilities and any other requirements of the bidding document.
- 39.3 After evaluation of the price analyses, in the event that the Purchaser determines that the Bidder has failed to demonstrate its capability to perform the contract for the offered Bid price, the Purchaser shall reject the Bid.

J. Evaluation of Combined Technical and Financial Parts, Most Advantageous Bid and Notification of Intention to Award

40. Evaluation of combined Technical and Financial Parts

40.1 The Purchaser's evaluation of responsive Bids will take into account technical factors, in addition to cost factors in accordance with Section III Evaluation and Qualification Criteria. The weight to be assigned for the Technical factors and cost is specified **in the BDS**. The Purchaser will rank the Bids based on the evaluated Bid score (B).

40.2 The Purchaser will determine the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the Qualification Criteria and whose Bid has been determined to be substantially responsive to the Bidding document and is the Bid with the highest combined technical and financial score.

41. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids

41.1 The Purchaser reserves the right to accept or reject any Bid, and to annul the Bidding process and reject all Bids at any time prior to Contract Award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, Bid securities, shall be promptly returned to the Bidders.

42. Standstill Period

42.1 The Contract shall not be awarded earlier than the expiry of the Standstill Period. The Standstill Period shall be ten (10) Business Days unless extended in accordance with ITB 47. The Standstill Period commences the day after the date the Purchaser has transmitted to each Bidder the Notification of Intention to Award the Contract. Where only one Bid is submitted, or if this contract is in response to an emergency situation recognized by the Bank, the Standstill Period shall not apply.

43. Notification of Intention to Award

43.1 The Purchaser shall send to each Bidder (that has not already been notified that it has been unsuccessful) the Notification of Intention to Award the Contract to the successful Bidder. The Notification of Intention to Award shall contain, at a minimum, the following information:

- (a) the name and address of the Bidder submitting the successful Bid;

- (b) the Contract price of the successful Bid;
- (c) the total combined score of the successful Bidder;
- (d) the names of all Bidders who submitted Bids, and their Bid prices as readout, and as evaluated and technical scores;
- (e) a statement of the reason(s) the Bid (of the unsuccessful Bidder to whom the notification is addressed) was unsuccessful;
- (f) the expiry date of the Standstill Period;
- (g) instructions on how to request a debriefing and/or submit a complaint during the standstill period.

K. Award of Contract

44. Award Criteria

- 44.1 Subject to ITB 41, the Purchaser shall award the Contract to the successful Bidder. This is the Bidder whose Bid has been determined to be the Most Advantageous Bid as specified in ITB 40.

45. Purchaser's Right to Vary Quantities at Time of Award

- 45.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages **specified in the BDS**, and without any change in the unit prices or other terms and conditions of the Bid and the bidding document.

46. Notification of Award

- 46.1 Prior to the date of expiry of the Bid validity and upon expiry of the Standstill Period, specified in ITB 42.1 or any extension thereof, and upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award (hereinafter and in the Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Supplier in consideration of the execution of the Contract (hereinafter and in the Conditions of

Contract and Contract Forms called “the Contract Price”).

46.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Purchaser shall publish the Contract Award Notice which shall contain, at a minimum, the following information:

- (a) name and address of the Purchaser;
- (b) name and reference number of the contract being awarded, and the selection method used;
- (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated;
- (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor;
- (e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and
- (f) successful Bidder’s Beneficial Ownership Disclosure Form.

46.3 The Contract Award Notice shall be published on the Purchaser’s website with free access if available, or in at least one newspaper of national circulation in the Purchaser’s Country, or in the official gazette.

46.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.

47. Debriefing by the Purchaser

47.1 On receipt of the Purchaser’s Notification of Intention to Award referred to in ITB 43.1, an unsuccessful Bidder has three (3) Business Days to make a written request to the Purchaser for a debriefing. The Purchaser shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline.

47.2 Where a request for debriefing is received within the deadline, the Purchaser shall provide a debriefing within five (5) Business Days, unless

the Purchaser decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Purchaser shall promptly inform, by the quickest means available, all Bidders of the extended standstill period

- 47.3 Where a request for debriefing is received by the Purchaser later than the three (3) Business Day deadline, the Purchaser should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3) day deadline shall not lead to extension of the standstill period.
- 47.4 Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidders shall bear their own costs of attending such a debriefing meeting.

48. Signing of Contract

- 48.1 The Purchaser shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form shall be submitted within eight (8) Business Days of receiving this request.
- 48.2 The successful Bidder shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt.
- 48.3 Notwithstanding ITB 48.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its Bid, always provided

however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contact Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.

49. Performance Security

- 49.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Purchaser, the successful Bidder, if required, shall furnish the Performance Security in accordance with the GCC 18 using for that purpose the Performance Security Form included in Section X, Contract Forms, or another Form acceptable to the Purchaser. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Purchaser. A foreign institution providing a bond shall have a correspondent financial institution located in the Purchaser's Country, unless the Purchaser has agreed in writing that a correspondent financial institution is not required.
- 49.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the Bidder offering the Most Advantageous Bid.

50. Procurement Related Complaint

- 50.1 The procedures for making a Procurement-related Complaint are as specified in the BDS.

Section II - Bid Data Sheet (BDS)

The following specific data for the Goods to be procured shall complement, supplement, and/or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions herein shall prevail over those in ITB.

ITB Reference	A. General
ITB 1.1	<p>The reference number of the Request for Bids (RFB) is: EDGE-G13B1</p> <p>The Purchaser is: Bangladesh Computer Council (BCC)</p> <p>Represented by Project Director, Enhancing Digital Government and Economy (EDGE) Project</p> <p>The name of the RFB is: Supply, Installation and Commissioning of Equipment for Semiconductor Lab</p> <p>The number and identification of lots (contracts) comprising this RFB is: Lot-1: Supply, Installation and Commissioning Packaging Equipment for Semiconductor Lab at BUET Lot-2: Supply, Installation and Commissioning Testing Equipment for Semiconductor Lab at BUET Lot-3: Supply, Installation and Commissioning of Fabrication (FAB) Equipment for Semiconductor Lab at BUET</p> <p>Bidders can quote for one or more than one lot. If more than one lot is quoted, the bidder must meet the cumulative specific experience, and resources as described in Evaluation and Qualifications Criteria under Section III.</p>
ITB 1.2(a)	<p>Electronic Procurement shall not be applicable to this procurement.</p> <p>Electronic-Procurement System</p> <p>The Purchaser shall use the following electronic-procurement system to manage this Bidding process: Not Applicable.</p> <p>The electronic-procurement system shall be used to manage the following aspects of the Bidding process: Not Applicable.</p>

ITB 2.1	<p>The Borrower is: The People's Republic of Bangladesh</p> <p>Loan or Financing Agreement amount: US\$ 120.00 Million</p> <p>The name of the Project is: Enhancing Digital Government and Economy (EDGE) Project</p>
ITB 4.1	Maximum number of members in the Joint Venture (JV) shall be: (04).
ITB 4.5	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr .
	B. Contents of Bidding Document
ITB 7.1	<p>For Clarification of Bid purposes only, the Purchaser's address is:</p> <p>Address: Youth Tower (Level 5), 822/2, Rokeya Sarani, Dhaka-1216, Bangladesh</p> <p>Telephone: +88 02 41001721</p> <p>Facsimile number: +88-02-55006791</p> <p>Electronic mail address: piu.edge@bcc.gov.bd and copy pd.edge@bcc.gov.bd</p> <p>Requests for clarification should be received by the Purchaser no later than: 14 days from publication of Request for Bids.</p> <p>Web page: www.bcc.gov.bd</p> <p>The bidder is requested, as far as possible, to submit any questions in writing, to reach the Purchaser not later than one week before the meeting.</p> <p>The Pre-bid meeting shall take place on the following date, time and place:</p> <p>Date: 29 May 2025</p> <p>Time: 11.00 hours Bangladesh Standard Time (BST= GMT + 6:00 hours).</p> <p>Address: Youth Tower (Level 5), 822/2, Rokeya Sarani, Dhaka-1216, Bangladesh.</p>
	C. Preparation of Bids
ITB 10.1	<p>The language of the Bid is: English.</p> <p>All correspondence exchange shall be in English language.</p> <p>Language for translation of supporting documents and printed literature is English.</p>

ITB 11.2 (i)	<p>The Bidder shall submit the following additional documents in its Bid to evaluate non-price factors:</p> <p>i.1: Supply and Implementation Plan</p> <p>i.2: Training Plan</p> <p>i.3: After Sales Services Plan</p>
ITB 11.3 (d)	The Bidder shall submit the following additional documents in its Bid: No additional document.
ITB 13.1	Alternative Bids (Technical and Financial Parts) shall not be considered.
ITB 14.5	<p>The prices quoted by the Bidder shall not be subject to adjustment during the performance of the Contract.</p> <p>Note:</p> <p>The end user of all supplied goods will be an academic institution. The equipment will be utilized strictly for academic research purposes. Therefore, bidders are requested to apply the academic cost waiver when pricing their offers.</p>
ITB 14.6	<p>Prices quoted for each lot (contract) shall correspond at least to 100% percent of the items specified for each lot (contract).</p> <p>Prices quoted for each item of a lot shall correspond at least to 100% percent of the quantities specified for this item of a lot.</p>
ITB 14.7	The Incoterms edition is: Incoterms 2020..
ITB 14.8 (a)(iii), (b)(ii) and (c)(v)	<p>Final Destination (Project Site): For each lot</p> <p>Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh.</p> <p>Customs duties and Value Added Taxes (CD-VAT) of the imported Goods under the Contract (incurred at the port of entry) will be paid by the Purchaser. However, customs formalities including appointment of, and payment to, Clearing and Forwarding (C&F) Agent shall be done by the Supplier. Port dues and all other charges shall be borne by the Supplier.</p> <p>The Supplier shall send the CD-VAT Assessment Report (Assessment Notice) of Customs Authorities to the Purchaser. The Purchaser will pay the assessed amount (CD -VAT) to the Government within 2 (two) weeks from received of assessment report.</p>

	The Supplier shall submit the supporting documents including appointment of, and payment to, Clearing and Forwarding (C&F) Agent and the Purchaser will reimburse the same, within 30 days.
ITB 14.8 (b)(i)	Place of Destination: For each lot Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh.
ITB 15.1	The Bidder <i>is</i> required to quote in the currency of the Purchaser's Country the portion of the Bid price that corresponds to expenditures incurred in that currency.
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): one (1) year.
ITB 17.2 (a)	Manufacturer's authorization is: required for following items: For Lot-1: Not Applicable For Lot-2: Manufacturer's authorization is required for item no. 3, 4, 5, 6, 9 & 11 For Lot-3: Manufacturer's authorization is required for item no. 1, 2, 3, 4 & 5
ITB 17.2 (b)	After sales service is: required.
ITB 18.1	The Bid shall be valid until: 180 days from the date of bid submission.
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor(s): Not Applicable.
ITB 19.1	A <i>Bid Security</i> shall be required. For Lot-1: The amount and currency of the Bid Security shall be United States Dollar (US\$) 8,000.00 (US\$ Eight Thousand only) or an equivalent amount in any freely convertible currency or Bangladesh Taka (BDT) 944,000.00 (BDT Nine Hundred Forty-Four Thousand Only). For Lot-2: The amount and currency of the Bid Security shall be United States Dollar (US\$) 30,900.00 (US\$ Thirty Thousand Nine Hundred only) or an equivalent amount in any freely convertible currency or Bangladesh Taka (BDT) 3,646,200.00 (BDT Three Million Six Hundred Forty-Six Thousand Two Hundred Only).

	<p>For Lot-3: The amount and currency of the Bid Security shall be United States Dollar (US\$) 29,500.00 (US\$ Twenty-Nine Thousand Five Hundred only) or an equivalent amount in any freely convertible currency or Bangladesh Taka (BDT) 3,481,000.00 (BDT Three Million Four Hundred Eighty-One Thousand Only).</p> <p>Bid Security shall be issued by an internationally reputable Bank or Financial Institution. If an unconditional guarantee is issued by a Financial Institution located outside the Purchaser's Country, the issuing Financial Institution shall have a correspondent financial institution located in the Purchaser's Country to make security enforceable.</p> <p>Bid Security shall be submitted using the Bid Security Form included in Section IV.</p> <p>The Bidder shall furnish the Bid Security in favour of: Project Director, Enhancing Digital Government and Economy (EDGE) Project.</p> <p>Also, Bidders have the option of submitting one Bid Security for all lots (for the combined total amount of all lots) for which Bids have been submitted, however if the amount of Bid Security is less than the total required amount, the Purchaser will determine for which lot or lots the Bid Security amount shall be applied.</p>
ITB 19.3 (d)	Other types of acceptable securities: None.
ITB 19.9	Not Applicable.
ITB 20.3	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of:</p> <p>(a) In case of bid signed by the Bidder's Director, Manager or other Officer, whose authority to commit the Bidder is granted by the Company Charter, Articles of Association, or equivalent statutory document: an extract from the Trade License indicating the name, position and authorization of bid's signatory; or a copy of the Company Charter (or equivalent statutory document), accompanied by a copy of Resolution, Order, Minutes of Board Meeting, or equivalent document evidencing appointment of Bid's signatory to the position in question.</p> <p>(b) In case of Bid signed by any person whose authority to commit the Bidder is not granted by the Company Charter, Articles of Association, or equivalent statutory document then the person shall have an appropriate Power of Attorney issued on Bidder's letterhead.</p> <p>(c) In case the Bidder authorizes a person who is not the payroll employee of the Bidder, the Bidder and the authorized person must</p>

	include in the bid an Agent Agreement with specific roles and responsibilities with respect to this procurement.
	D. Submission of Bids
ITB 21.2	In addition to the original of the Bid, the number of copies is: Three (03) . In addition, the original bid shall include an electronic copy of the bid on a Flash Drive. In case of any discrepancy in between the paper-based bid and the electronic copy of the bid, the paper-based bid shall prevail.
ITB 22.1	For <u>Bid submission purposes</u> only, the Purchaser's address is: Attention: Project Director, Enhancing Digital Government and Economy (EDGE) Project Address: Youth Tower (Level 5), 822/2, Rokeya Sarani, Dhaka-1216, Bangladesh The deadline for Bid submission is: Date: 01 July 2025 Time: 12.00 hours Bangladesh Standard Time (BST= GMT + 6:00) hours) Bidders shall not have the option of submitting their Bids electronically. The electronic bidding submission procedures shall be: not applicable .
	E. Public Opening of Technical Parts of Bids
ITB 25.1	The Bid opening shall take place at: Address: Youth Tower (Level 5), 822/2, Rokeya Sarani, Dhaka-1216, Bangladesh Date: 01 July 2025 Time: 12.30 hours Bangladesh Standard Time (BST= GMT + 6:00) The electronic Bid opening procedures shall be: not applicable .
ITB 25.6	The Letter of Bid - Technical Part and the sealed envelope marked "Second Envelope - Financial Part" shall be initialed by all representatives of the Purchaser conducting Bid opening. Each Bid shall be initialed by all representatives and shall be numbered.
	G. Evaluation of Technical Parts of Bids
ITB 32.4	The weighting to be given for Rated Criteria (including technical and non-price factors) is: 30% for each Lot. For Lot 1:

The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:

Sl.No.	Technical Factor	Weight in percentage (Weight in %)	Reference
1	Supply and Implementation Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
2	Training Plan	40%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
3	After Sales Services Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
	Total	100%	

The technical proposal scoring methodology is specified in Section III-Evaluation and Qualification Criteria.

For Lot 2:

The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:

Sl.No.	Technical Factor	Weight in percentage (Weight in %)	Reference
1	Supply and Implementation Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
2	Training Plan	40%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2

	3	After Sales Services Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
	Total		100%	
	The technical proposal scoring methodology is specified in Section III- Evaluation and Qualification Criteria.			
	For Lot 3:			
	The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:			
	Sl.No.	Technical Factor	Weight in percentage (Weight in %)	Reference
	1	Supply and Implementation Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
	2	Training Plan	40%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
	3	After Sales Services Plan	30%	Section IV – Bidding Forms: Additional Documents in accordance with ITB clause 11.2
	Total		100%	
	The technical proposal scoring methodology is specified in Section III- Evaluation and Qualification Criteria.			
H. Notification of Evaluation of Technical Parts and Public Opening of Financial Parts of Bids				
ITB 33.5	The Letter of Bid – Financial Part and the Price Schedules shall be initialed by all representatives of the Purchaser conducting Bid opening. Each Financial Part of Bid shall be initialed by all representatives and shall be numbered, any modification to the unit or total price shall be initialed by the Representative of the Purchaser, etc.			

	I. Evaluation of Financial Part of Bids
ITB 34.2(a)	<p>Evaluation will be done for</p> <p>Bids will be evaluated lot by lot. If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items. An item not listed in the Price Schedule shall be assumed to be not included in the Bid, and provided that the Bid is substantially responsive, the average price of the item quoted by substantially responsive Bidders will be added to the Bid price and the equivalent total cost of the Bid so determined will be used for price comparison.</p>
ITB 34.6	<p>The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: Not Applicable.</p> <p>(a) Deviation in Delivery schedule: No.</p> <p>(b) Deviation in payment schedule No.</p> <p>(c) the cost of major replacement component, mandatory spare parts, and service: No.</p> <p>(d) the availability in the Purchaser's Country of spare parts and after-sales services for the equipment offered in the Bid No.</p> <p>(e) Life cycle costs: the costs during the life of the goods or equipment No.</p> <p>(f) the performance and productivity of the equipment offered; No.</p> <p>(g) No other specific criteria in Section III, Evaluation and Qualification Criteria.</p>
ITB 36.1	<p>The currency that shall be used for Bid evaluation and comparison purposes to convert at the selling exchange rate all Bid prices expressed in various currencies into a single currency is: Bangladesh Taka (BDT).</p> <p>The source of exchange rate shall be: Bangladesh Bank (web site: https://www.bb.org.bd/en/index.php/econdata/exchangerate).</p> <p>The date for the exchange rate shall be: Fourteen (14) days prior to the date of bid submission.</p>
ITB 37.1	<p>A margin of domestic preference shall apply.</p> <p>Group A Bidder will provide detail of the cost breakdown of items in its bid if the Bidder wishes to get margin of preference.</p>

J. Evaluation of Combined Technical and Financial Parts and Most Advantageous Bid	
ITB 40.1	The weight to be given for cost is: 0.70.
	J. Award of Contract
ITB 45.1	The maximum percentage by which quantities may be increased is: 20% . The maximum percentage by which quantities may be decreased is 20% .
ITB 50.1	<p>The procedures for making a Procurement-related Complaint are detailed in the “Procurement Regulations for IPF Borrowers (Annex III).” If a Bidder wishes to make a Procurement-related Complaint, the Bidder should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to:</p> <p>For the attention: Dr. Md. Taibur Rahman</p> <p>Title/position: Project Director, Enhancing Digital Government and Economy (EDGE) Project</p> <p>Purchaser: Bangladesh Computer Council (BCC)</p> <p>Email address: piu.edge@bcc.gov.bd</p> <p>Fax number: <i>Not Applicable.</i></p> <p>A copy of the complaint can be sent for the Bank’s information and monitoring to: pprourementcomplaints@worldbank.org</p> <p>In summary, a Procurement-related Complaint may challenge any of the following:</p> <ol style="list-style-type: none"> 1. the terms of the Bidding Documents; 2. the Purchaser’s decision to exclude a Bidder from the procurement process prior to the award of contract; and 3. the Purchaser’s decision to award the contract.

Section III - Evaluation and Qualification Criteria

This Section contains the criteria that the Purchaser shall use to evaluate Bids and qualify the Bidders. No other factors, methods or criteria shall be used other than specified in this bidding document.

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TECHNICAL PART

1. For Lot-1: Supply, Installation and Commissioning Packaging Equipment for Semiconductor Lab at BUET Qualification

Qualification Criteria (ITB 32.1)

The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) **Financial Capability:** The Bidder shall submit audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years prior to bid submission deadline, demonstrating the current soundness of the Bidder's financial position. For a joint venture, this requirement shall be met by each member;
- (b) **Financial Resources:** The Bidder must demonstrate access to, or availability of, financial resources other than any contractual commitment to meet the minimum cash-flow requirement of **US\$ 0.3 million** or equivalent amount for the supply. The documentary evidence shall be in the form of supporting letter(s) issued by the bidder's bank/financial institution confirming that the above-specified minimum amount is available through lines of credit and/or funds in the bidder's bank account for use specifically in the execution of the subject contract if awarded to the bidder. For a joint venture, this requirement may be met by all members combined. While each member of the joint venture must meet at least 25% of the financial requirement.
- (c) **General Experience:** The Bidder shall have 5 years of overall experience in the supply of Goods. For a joint venture, this requirement shall be met by each member.
- (d) **Specific Experience:** The Bidder shall demonstrate that it has successfully completed with a minimum amount of contract value **US\$ 0.4 million or equivalent amount** under one (1) similar contract within the last five (5) years prior to bid submission deadline, that have been successfully and substantially¹ completed and that are similar in nature and complexity to the Goods and Related Services under the Contract. The contract will be treated as similar, which includes similar type of items as described in Section VII Purchaser's Requirements/Digital Lab Equipment/High-end Computational Equipment. For a joint venture², this requirement may be met by all members combined.

¹ Substantial completion shall be based on 80% or more value completed under the contract and shall satisfy the minimum value of contract as required.

² For contracts under which the Bidder participated as a joint venture member, only the Bidder's share, by value, and role and responsibilities shall be considered to meet this requirement.

In the case of joint venture, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity

- (e) **Documentary Evidence:** The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement:

The product has been implemented by at least one (1) customer / organization for the Items listed in ITB 17.2 (a) clause Section II - Section VII - Bid Data Sheet (BDS) for Lot-1

- (f) **Manufacturing experience and Technical Capacity:** For the items under the Contract that the bidder is a manufacturer, the Bidder shall furnish documentary evidence to demonstrate that:

- (i) it has manufactured goods of similar nature and complexity for at least three (3) years, prior to the bid submission deadline; and
- (ii) its annual production capacity of goods of similar nature and complexity for each of the last three (3) years prior to the bid submission deadline, is at least two (2) times the quantities specified under the contract.

- (g) **Manufacturer's authorization:** A Bidder who does not manufacture an item/s where a manufacturer authorization is required in accordance with BDS ITB 17.2 (a), the Bidder shall provide evidence of being duly authorized by a manufacturer (Manufacturer's Authorization Form, Section IV, Bidding Forms), meeting the criteria in (f) (i) and (ii) above, to supply the Goods;

- (h) A bidder who does who does not manufacture an item/s where a manufacturer authorization is not required in accordance with BDS ITB 17.2 (a), the bidder shall submit documentation on, its status as a supplier, to the satisfaction of the Purchaser (*e.g. authorized dealer/reseller/distributor of the items*).

At the time of Contract Award, the Bidder (including each subcontractor proposed by the Bidder) shall not be subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.

For Lot-2: Supply, Installation and Commissioning Testing Equipment for Semiconductor Lab at BUET

Qualification Criteria (ITB 32.1)

The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) **Financial Capability:** The Bidder shall submit audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years prior to bid submission deadline, demonstrating the current soundness of the Bidder's financial position. For a joint venture, this requirement shall be met by each member;

- (b) **Financial Resources:** The Bidder must demonstrate access to, or availability of, financial resources other than any contractual commitment to meet the minimum cash-flow requirement of **US\$ 1.0 million** or equivalent amount for the supply. The documentary evidence shall be in the form of supporting letter(s) issued by the bidder's bank/financial institution confirming that the above-specified minimum amount is available through lines of credit and/or funds in the bidder's bank account for use specifically in the execution of the subject contract if awarded to the bidder. For a joint venture, this requirement may be met by all members combined. While each member of the joint venture must meet at least 25% of the financial requirement.
- (c) **General Experience:** The Bidder shall have 5 years of overall experience in the supply of Goods. For a joint venture, this requirement shall be met by each member.
- (d) **Specific Experience:** The Bidder shall demonstrate that it has successfully completed with a minimum amount of contract value **US\$ 1.5 million or equivalent amount** under two (2) similar contract(s) within the last five (5) years prior to bid submission deadline, that have been successfully and substantially³ completed and that are similar in nature and complexity to the Goods and Related Services under the Contract. The contract will be treated as similar, which includes similar type of items as described in Section VII Purchaser's Requirements/Digital Lab Equipment/High-end Computational Equipment. For a joint venture⁴, this requirement may be met by all members combined.
- (e) **Documentary Evidence:** The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement:
- The product has been implemented by at least one (1) customer / organization for the Items listed in ITB 17.2 (a) clause Section II - Section VII - Bid Data Sheet (BDS) for Lot-1
- (f) **Manufacturing experience and Technical Capacity:** For the items under the Contract that the bidder is a manufacturer, the Bidder shall furnish documentary evidence to demonstrate that:
- (iii) it has manufactured goods of similar nature and complexity for at least three (3) years, prior to the bid submission deadline; and
 - (iv) its annual production capacity of goods of similar nature and complexity for each of the last three (3) years prior to the bid submission deadline, is at least two (2) times the quantities specified under the contract.

³ Substantial completion shall be based on 80% or more value completed under the contract and shall satisfy the minimum value of contract as required.

⁴ For contracts under which the Bidder participated as a joint venture member, only the Bidder's share, by value, and role and responsibilities shall be considered to meet this requirement.

In the case of joint venture, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity

- (g) **Manufacturer's authorization:** A Bidder who does not manufacture an item/s where a manufacturer authorization is required in accordance with BDS ITB 17.2 (a), the Bidder shall provide evidence of being duly authorized by a manufacturer (Manufacturer's Authorization Form, Section IV, Bidding Forms), meeting the criteria in (f) (i) and (ii) above, to supply the Goods;
- (h) A bidder who does who does not manufacture an item/s where a manufacturer authorization is not required in accordance with BDS ITB 17.2 (a), the bidder shall submit documentation on, its status as a supplier, to the satisfaction of the Purchaser (*e.g. authorized dealer/reseller/distributor of the items*).

At the time of Contract Award, the Bidder (including each subcontractor proposed by the Bidder) shall not be subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.

For Lot-3: Supply, Installation and Commissioning of Fabrication (FAB) Equipment for Semiconductor Lab at BUET

Qualification Criteria (ITB 32.1)

The Purchaser shall assess each Bid against the following Qualification Criteria. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications.

- (a) **Financial Capability:** The Bidder shall submit audited financial statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, for the last three (3) years prior to bid submission deadline, demonstrating the current soundness of the Bidder's financial position. For a joint venture, this requirement shall be met by each member;
- (b) **Financial Resources:** The Bidder must demonstrate access to, or availability of, financial resources other than any contractual commitment to meet the minimum cash-flow requirement of **US\$ 0.9 million** or equivalent amount for the supply. The documentary evidence shall be in the form of supporting letter(s) issued by the bidder's bank/financial institution confirming that the above-specified minimum amount is available through lines of credit and/or funds in the bidder's bank account for use specifically in the execution of the subject contract if awarded to the bidder. For a joint venture, this requirement may be met by all members combined. While each member of the joint venture must meet at least 25% of the financial requirement.
- (c) **General Experience:** The Bidder shall have 5 years of overall experience in the supply of Goods. For a joint venture, this requirement shall be met by each member.
- (d) **Specific Experience:** The Bidder shall demonstrate that it has successfully completed with a minimum amount of contract value **US\$ 1.4 million or equivalent amount** under two (2) similar contract(s) within the last five (5) years prior to bid submission deadline, that

have been successfully and substantially⁵ completed and that are similar in nature and complexity to the Goods and Related Services under the Contract. The contract will be treated as similar, which includes similar type of items as described in Section VII Purchaser's Requirements/Digital Lab Equipment/High-end Computational Equipment. For a joint venture⁶, this requirement may be met by all members combined.

- (e) **Documentary Evidence:** The Bidder shall furnish documentary evidence to demonstrate that the Goods it offers meet the following usage requirement:

The product has been implemented by at least one (1) customer / organization for the Items listed in ITB 17.2 (a) clause Section II - Section VII - Bid Data Sheet (BDS) for Lot-1

- (f) **Manufacturing experience and Technical Capacity:** For the items under the Contract that the bidder is a manufacturer, the Bidder shall furnish documentary evidence to demonstrate that:

(v) it has manufactured goods of similar nature and complexity for at least three (3) years, prior to the bid submission deadline; and

(vi) its annual production capacity of goods of similar nature and complexity for each of the last three (3) years prior to the bid submission deadline, is at least two (2) times the quantities specified under the contract.

- (g) **Manufacturer's authorization:** A Bidder who does not manufacture an item/s where a manufacturer authorization is required in accordance with BDS ITB 17.2 (a), the Bidder shall provide evidence of being duly authorized by a manufacturer (Manufacturer's Authorization Form, Section IV, Bidding Forms), meeting the criteria in (f) (i) and (ii) above, to supply the Goods;

- (h) A bidder who does who does not manufacture an item/s where a manufacturer authorization is not required in accordance with BDS ITB 17.2 (a), the bidder shall submit documentation on, its status as a supplier, to the satisfaction of the Purchaser (*e.g. authorized dealer/reseller/distributor of the items*).

At the time of Contract Award, the Bidder (including each subcontractor proposed by the Bidder) shall not be subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.

⁵ Substantial completion shall be based on 80% or more value completed under the contract and shall satisfy the minimum value of contract as required.

⁶ For contracts under which the Bidder participated as a joint venture member, only the Bidder's share, by value, and role and responsibilities shall be considered to meet this requirement.

In the case of joint venture, the value of contracts completed by its members shall not be aggregated to determine whether the requirement of the minimum value of a single contract has been met. Instead, each contract performed by each member shall satisfy the minimum value of a single contract as required for single entity

Note: To qualify for multiple number of contracts/lots for this Request for Bids, the Bidder must meet cumulative specific experience for supply of respective lots and shall demonstrate having resources (i.e., (i) Average Annual Turnover and (ii) Financial Resources) sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

2. Technical Evaluation (ITB 32.4)

2.1 Assessment of adequacy of Technical Part with the requirements in accordance with ITB 32.4 for each lot.

2.2 Bidder must meet Purchaser's Technical Specifications Requirements mentioned in Section VII prior to being considered for detailed technical evaluation by applying the scored technical factors/subfactors in accordance with BDS ITB 32.4. Technical Evaluation (ITB 32.4)

The non-price factors/technical features to be evaluated are defined below and specifically identified in the BDS ITP 32.4.

The non-price factors/technical features and the corresponding scores are:

For Lot 1:

The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:

Sl.No.	Technical Factor	Weight in percentage (Weight in %)
1	Supply and Implementation Plan	30%
2	Training Plan	40%
3	After Sales Services Plan	30%
	Total	100%

For Lot 2:

The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:

Sl.No.	Technical Factor	Weight in percentage (Weight in %)
1	Supply and Implementation Plan	30%
2	Training Plan	40%
3	After Sales Services Plan	30%
	Total	100%

For Lot 3:

The technical factors (including sub-factors if any), which for purposes of this document carry the same meaning as Rated Criteria, and the corresponding weight out of 100% are:

Sl.No.	Technical Factor	Weight in percentage (Weight in %)
1	Supply and Implementation Plan	30%

Sl.No.	Technical Factor	Weight in percentage (Weight in %)
2	Training Plan	40%
3	After Sales Services Plan	30%
	Total	100%

The total technical points assigned to each bid in the Evaluated Bid Formula will be determined by adding and weighting the scores assigned by an evaluation committee to non-price factors/technical features of the Bid **in accordance with the BDS** and the scoring methodology below.

Technical Part Scoring Methodology for each lot:

- a) During the evaluation process, the evaluation committee will assign each desirable feature as describe below:

Score (of the total score for the factor/subfactor as applicable)	Description	Remarks
0	Required feature is absent; no relevant information to demonstrate how the requirement is met	
1	Required feature present with deficiencies such as insufficient or information that lacks clarity	
2	Sufficient information to demonstrate how the requirement will be met	
3	Sufficient information to demonstrate that the requirement will be marginally exceeded	
4	Sufficient information that significantly exceed the requirement/bid contributes to significant value addition	

- b) The score for each sub- factor (i) within a factor (j) will be combined with the scores of sub- factors in *the* same factor as a weighted sum to form the Factor Technical Score using the following formula:

$$S_j \equiv \sum_{i=1}^k t_{ji} * w_{ji}$$

where:

t_{ji} = the technical score for sub- factor “i” in factor “j”,

w_{ji} = the weight of sub- factor “i” in factor “j”,

k = the number of scored sub-factors in factor “j”, and

$$\sum_{i=1}^k w_{ji} = 1$$

The Factor Technical Scores will be combined in a weighted sum to form the total Technical Bid Score using the following formula:

$$T \equiv \sum_{j=1}^n S_j * W_j$$

where:

- S_j = the Factor Technical Score of factor “j”,
- W_j = the weight of factor “j” as specified **in the BDS**,
- n = the number of Factors, and

$$\sum_{j=1}^n W_j = 1$$

FINANCIAL PART

1. Margin of Preference (ITB 37) for each lot

If the Bidding Data Sheet so specifies, the Purchaser will grant a margin of preference to goods manufactured in the Purchaser's country for the purpose of Bid comparison, in accordance with the procedures outlined in subsequent paragraphs.

Substantially responsive Bids will be classified in one of three groups, as follows:

- (a) **Group A:** Bids offering goods manufactured in the Purchaser's Country, for which (i) labor, raw materials, and components from within the Purchaser's Country account for more than thirty (30) percent of the EXW price; and (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of Bid submission.
- (b) **Group B:** All other Bids offering Goods manufactured in the Purchaser's Country.
- (c) **Group C:** Bids offering Goods manufactured outside the Purchaser's Country that have been already imported or that will be imported.

To facilitate this classification by the Purchaser, the Bidder shall complete whichever version of the Price Schedule furnished in the bidding document is appropriate provided, however, that the completion of an incorrect version of the Price Schedule by the Bidder shall not result in rejection of its Bid, but merely in the Purchaser's reclassification of the Bid into its appropriate Bid group.

The Purchaser will first review the Bids to confirm the appropriateness of, and to modify as necessary, the Bid group classification to which Bidders assigned their Bids in preparing their Bid Forms and Price Schedules.

Following the combined evaluation procedure described below, the Bids in each group will then be compared to determine the Most Advantageous Bid in that group. The Most Advantageous Bid from each group shall then be compared with each other and if as a result of this comparison a Bid from Group A or Group B is the Most Advantageous, it shall be selected for the award.

If as a result of the preceding comparison, a Bid from Group C is the Most Advantageous Bid, all Bids from Group C shall be further compared with the Most Advantageous Bid from Group A after adding to the evaluated price of goods offered in each Bid from Group C, for the purpose of this further comparison only, an amount equal to 15% (fifteen percent) of the respective CIP Bid price for goods to be imported and already imported goods. Both prices shall include unconditional discounts and be corrected for arithmetical errors. If the Bid from Group A is the Most Advantageous, it shall be selected for award. If not, the Most Advantageous Bid from Group C shall be selected.

2 Evaluation Criteria (ITB 34.6) for each lot

The Purchaser shall use the criteria and methodologies listed in this Section to evaluate the Financial Part.

The Purchaser's evaluation of the Financial Part may take into account, in addition to the Bid Price, one or more of the following factors as **specified in BDS ITB 34.6**, using the following criteria and methodologies.

- (a) Delivery schedule. (As per Incoterms specified in the BDS)

The Goods specified in the List of Goods are required to be delivered within the acceptable time range (after the earliest and before the final date, both dates inclusive) specified in Section VII, Schedule of Requirements. No credit will be given to deliveries before the earliest date, and Bids offering delivery after the final date shall be treated as nonresponsive.

- (b) Deviation in payment schedule.

- (i) *The SCC stipulates the payment schedule specified by the Purchaser. If a Bid deviates from the schedule, it shall be treated as nonresponsive.*

- (c) Cost of major replacement components, mandatory spare parts, and service. —**Not Applicable.**

- (i) *The list of items and quantities of major assemblies, components, and selected spare parts, likely to be required during the initial period of operation specified in the BDS 16.4, is in the List of Goods. An adjustment equal to the total cost of these items, at the unit prices quoted in each Bid, shall be added to the Bid price, for evaluation purposes only.*

or

- (i) *The Purchaser will draw up a list of high-usage and high-value items of components and spare parts, along with estimated quantities of usage in the initial period of operation specified in the BDS 16.4. The total cost of these items and quantities will be computed from spare parts unit prices submitted by the Bidder and added to the Bid price, for evaluation purposes only.*

- (d) Availability in the Purchaser's Country of spare parts and after sales services for equipment offered in the Bid.

- (e) Life Cycle Cost - **Not Applicable.**

If specified in BDS 34.6. an adjustment to take into account the additional life cycle costs for the period specified below, such as the operating and maintenance costs of the Goods, will be added to the Bid price, for evaluation purposes only. The adjustment will be evaluated in accordance with the methodology specified below.

[Note to purchase: Life cycle costings should be used when the costs of operation and/or maintenance over the specified life of the goods are estimated to be considerable in comparison with the initial cost and may vary among different Bids. Life cycle cost shall be evaluated on a net present value basis. If life cycle costs apply then specify the factors required to determine them for evaluation purposes.]

[Either amend the following text as required, or delete if life cycle cost is not applicable]

- (i) number of years for life cycle cost determination *[insert the number of years]*;
 - (ii) the discount rate to be applied to determine the net present value of future operation and maintenance costs (recurrent costs) is *[insert the discount rate]*;
 - (iii) the annual operating and maintenance costs (recurrent costs) shall be determined on the basis of the following methodology: *[insert methodology]*;
 - (iv) and the following information is required from bidders *[insert any information required from bidders, including prices]*.
- (f) Performance and productivity of the equipment. - **Not Applicable.**
- (i) Performance and productivity of the equipment. An adjustment representing the capitalized cost of additional operating costs over the life of the goods will be added to the Bid price, for evaluation purposes if specified in the BDS 34.6. The adjustment will be evaluated based on the drop in the guaranteed performance or efficiency offered in the Bid below the norm of 100, using the methodology below.

[insert the methodology and criteria if applicable]

or

- (i) An adjustment to take into account the productivity of the goods offered in the Bid will be added to the Bid price, for evaluation purposes only, if specified in BDS 34.6. The adjustment will be evaluated based on the cost per unit of the actual productivity of goods offered in the Bid with respect to minimum required values, using the methodology below.

[insert the methodology and criteria if applicable].

- (g) Specific additional criteria – **Not Applicable.**

[Other specific additional criteria to be considered in the evaluation, and the evaluation method shall be detailed in BDS 34.6]

[[Specify adjustments, if any, to be made for financial part evaluation purposes for any additional quantifiable sustainable procurement requirements, not covered by other evaluation criteria. Ensure that there is no duplication (double counting) with the point system technical evaluation criteria.].]

Combined Evaluation

The Purchaser will evaluate and compare the Bids that have been determined to be substantially responsive.

The Purchaser's evaluation of responsive Bids will take into account technical factors, in addition to cost factors.

An Evaluated Bid Score (B) will be calculated for each responsive Bid using the following formula (for comparison in percentages), which permits a comprehensive assessment of the Bid price and the technical merits of each Bid:

$$B \equiv \frac{C_{low}}{C} * X * 100 + \frac{T}{T_{high}} * (1 - X) * 100$$

where

C = Evaluated Bid Price

C_{low} = the lowest of all Evaluated Bid Prices among responsive Bids

T = the total Technical Score awarded to the Bid

T_{high} = the Technical Score achieved by the Bid that was scored best among all responsive Bids

X = weight for the Cost as specified in the BDS

The Bid with the best evaluated Bid Score (B) among responsive Bids shall be the Most Advantageous Bid provided the Bidder is qualified to perform the Contract.

Multiple Contracts (ITB 34.4)

If in accordance with **ITB 1.1**, Bids are invited for more than one lot, the contract will be awarded to the Bidder or Bidders with the Most Advantageous Bid for the individual lots.

However, if a Bidder, with Bids that are substantially responsive and with highest evaluated score for individual lots, is not qualified for the combination of the lots, then the award will be made based on the highest total score for combination of lots for which Bidders are qualified.

Discounts that are conditional on the award of more than one lot will not be considered for bid evaluation purpose.

Alternative Bids (ITB 13.1) – Not Applicable

An alternative if permitted under ITB 13.1, will be evaluated as follows:

[insert one of the following]

“A Bidder may submit an Alternative Bid (Technical and Financial Parts) only with a Bid for the base case. The Purchaser shall only consider the Alternative Bids offered by the Bidder whose Bid for the base case was determined to be the Most Advantageous Bid.”

or

“A Bidder may submit an Alternative Bid with or without a Bid for the base case. The Purchaser shall consider Bids offered for alternatives as specified in the Technical Specifications of Section VII, Schedule of Requirements. All Bids received, for the base case, as well as Alternative Bids meeting the specified requirements, shall be evaluated on their own merits in accordance with the same procedures, as specified in the ITB 30 and ITB 34.”

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Section IV - Bidding Forms

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Letter of Bid – Technical Part

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid in the first envelope “TECHNICAL PART”.

The Bidder must prepare the Letter of Bid on stationery with its letterhead clearly showing the Bidder’s complete name and business address.

Note: All italicized text in black font is to help Bidders in preparing this form and Bidders shall delete it from the final document.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of Bidding process]*

Request for Bid No.: *[insert identification]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned Bidder, hereby submit our Bid, in two parts, namely:

- (a) the Technical Part, and
- (b) the Financial Part.

In submitting our Bid we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders (ITB 8);
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
- (c) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the Purchaser based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the Purchaser’s country in accordance with ITB 4.7;
- (d) **Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH):** *[select the appropriate option from (i) to (iii) below and delete the others. In case of JV members and/or subcontractors, indicate the status of disqualification by the Bank of each JV member and/or subcontractor].*

We, including any of our subcontractors:

- (i) *[have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]*

- (ii) [are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
- (iii) [had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.]
- (e) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
- (f) **Bid Validity:** Our Bid shall be valid until *[insert day, month and year in accordance with ITB 18.1]*, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (g) **Performance Security:** If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
- (h) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements of ITB 4.3, other than Alternative Bids submitted in accordance with ITB 13;
- (i) **Suspension and Debarment:** We, along with any of our subcontractors, suppliers, consultants, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the World Bank Group or a debarment imposed by the World Bank Group in accordance with the Agreement for Mutual Enforcement of Debarment Decisions between the World Bank and other development banks. Further, we are not ineligible under the Purchaser's country laws or official regulations or pursuant to a decision of the United Nations Security Council;
- (j) **State-owned enterprise or institution:** *[select the appropriate option and delete the other] [We are not a state-owned enterprise or institution] / [We are a state-owned enterprise or institution but meet the requirements of ITB 4.6]*;
- (k) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- (l) **Not Bound to Accept:** We understand that you are not bound to accept the lowest evaluated cost Bid, the Most Advantageous Bid or any other Bid that you may receive; and
- (m) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

Name of the Bidder: **[insert complete name of Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: *** [insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

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Technical Part

[Note to Purchaser: Modify as appropriate]

The technical bid shall include all relevant information required to evaluate the technical Part in accordance with the requirements.

To establish the conformity of the Goods and Related Services to the RFB document, the Bidder shall furnish the documentary evidence that the Goods conform to the technical specifications and standards, including any essential technical and performance characteristics specified in Section VII, Schedule of Requirements. Any required functional guarantees shall also be provided. The attached forms/format may support the Bidder to organize information required to present its technical bid.

The documentary evidence may be in the form of literature, drawings or data, and shall consist of a detailed item by item description of the essential technical and performance characteristics of the Goods and Related Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

In the interest of timely bid evaluation and contract award, Bidders are encouraged not to overload the supporting materials with documents that do not directly address the Purchaser's requirements.

The Bidder shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the BDS following commencement of the use of the goods by the Purchaser.

Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers specified by the Purchaser in the Schedule of Requirements, are intended to be descriptive only and not restrictive. The Bidder may offer other standards of quality, brand names, and/or catalogue numbers, provided that it demonstrates, to the Purchaser's satisfaction, that the substitutions ensure substantial equivalence or are superior to those specified in the Section VII, Schedule of Requirements.

If the contract has been assessed to present potential or actual cyber security risks, the technical bid must include proposed cyber security risks management plan.

If there are assessed supply chain risks, the technical bid must include proposed supply chain risk management plan.

The Manufacturer's Authorizations shall be included in accordance with ITB BDS 17.2 (a) and the attached Manufacturer's Authorization form.

Technical Bid Checklist

Technical. Requirement No. _	Technical Requirement: <i>[insert: description of requirement]</i>
Bidder's technical bid/ compliance:	
Bidder's cross references to supporting information in the Technical Bid:	

Functional Guarantees

(to be used as applicable)

The Bidder shall copy in the left column of the table below; the identification of each functional guarantee required in the Specification and in the right column, provides the corresponding value for each functional guarantee of the proposed Goods.

Required Functional Guarantee	Value of Functional Guarantee of the Goods
1.	
2.	
3.	
...	

Manufacturer's Authorization

*[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Bidder shall include it in its Bid, if so indicated in the **BDS**.]*

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following Goods, manufactured by us *[insert name and or brief description of the Goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 28 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

We confirm that we do not engage or employ forced labor or persons subject to trafficking or child labor, in accordance with Clause 14 of the General Conditions of Contract.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Title: *[insert title]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Bidder Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted.]

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of Bidding process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above, in accordance with ITB 4.4. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing: <ul style="list-style-type: none"> • Legal and financial autonomy • Operation under commercial law • Establishing that the Bidder is not under the supervision of the Purchaser

8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. The successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.

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Bidder's JV Members Information Form

[The Bidder shall fill in this Form in accordance with the instructions indicated below. The following table shall be filled in for the Bidder and for each member of a Joint Venture]].

Date: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4. <input type="checkbox"/> In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Purchaser, in accordance with ITB 4.6.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. The successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment Performance Declaration

[The following table shall be filled in by the Bidder, each member of a Joint Venture and each subcontractor proposed by the Bidder]

Bidder's Name: *[insert full name]*

Date: *[insert day, month, year]*

Joint Venture Member's or Subcontractor's Name: *[insert full name]*

RFB No. and title: *[insert RFB number and title]*

Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration in accordance with Section III, Qualification Criteria, and Requirements
We: <input type="checkbox"/> (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.
<i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i>

Form of Bid Security

(Bank Guarantee)

[The bank shall fill in this Bank Guarantee Form in accordance with the instructions indicated.]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Purchaser to insert its name and address]*

RFB No.: *[Purchaser to insert reference number for the Request for Bids]*

Alternative No.: *[Insert identification No if this is a Bid for an alternative]*

Date: *[Insert date of issue]*

BID GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _____ *[insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof]* (hereinafter called "the Applicant") has submitted or will submit to the Beneficiary its Bid (hereinafter called "the Bid") for the execution of _____ under Request for Bids No. _____ ("the RFB").

Furthermore, we understand that, according to the Beneficiary's conditions, Bids must be supported by a Bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of _____ (_____) upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid prior to the Bid validity expiry date set forth in the Applicant's Letter of Bid, or any extended date provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary prior to the expiry date of the Bid validity or any extension thereof provided by the Applicant has failed to:
 - (i) sign the contract agreement, or (ii) furnish the performance security, in accordance with the Instructions to Bidders ("ITB") of the Beneficiary's bidding document.

This guarantee will expire: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract agreement signed by the Applicant and the performance security issued to the Beneficiary in relation to such Contract agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Bidding process; or (ii) twenty-eight days after the expiry date of the Bid validity.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758.

[Signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

Form of Bid Security (Bid Bond)

Not Applicable

[The Surety shall fill in this Bid Bond Form in accordance with the instructions indicated.]

BOND NO. _____

BY THIS BOND *[name of Bidder]* as Principal (hereinafter called “the Principal”), and *[name, legal title, and address of surety]*, **authorized to transact business in** *[name of country of Purchaser]*, as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[name of Purchaser]* as Obligee (hereinafter called “the Purchaser”) in the sum of *[amount of Bond]*⁷ *[amount in words]*, 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.

WHEREAS the Principal has submitted or will submit a written Bid to the Purchaser dated the ____ day of _____, 20__, for the supply of *[name of Contract]* (hereinafter called the “Bid”).

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

- (a) withdraws its Bid prior to the Bid validity expiry date set forth in the Principal’s Letter of Bid, or any extended date provided by the Principal; or
- (b) having been notified of the acceptance of its Bid by the Purchaser prior to the expiry date of the Bid validity or any extension thereto provided by the Applicant has failed to: (i) execute the Contract agreement; or (ii) furnish the Performance Security, in accordance with the Instructions to Bidders (“ITB”) of the Purchaser’s bidding document.

then the Surety undertakes to immediately pay to the Purchaser up to the above amount upon receipt of the Purchaser’s first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

⁷ The amount of the Bond shall be denominated in the currency of the Purchaser’s country or the equivalent amount in a freely convertible currency.

The Surety hereby agrees that its obligation will remain in full force and effect up to and including the date 28 days after the date of expiry of the Bid validity set forth in the Principal's Letter of Bid or any extension thereto provided by the Principal.

IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this ____ day of _____ 20__.

Principal: _____ Surety: _____

Apply Corporate Seal (where appropriate)

(Signature)

(Printed name and title)

(Signature)

(Printed name and title)

Form of Bid-Securing Declaration

Not Applicable

[The Bidder shall fill in this Form in accordance with the instructions indicated.] Date: *[date (as day, month and year)]*

RFB No.: *[number of RFB process]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[complete name of Purchaser]*

We, the undersigned, declare that:

We understand that, according to your conditions, Bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for Bidding or submitting proposals in any contract with the Purchaser for the period of time specified in Section II – Bid Data Sheet if we are in breach of our obligation(s) under the Bid conditions, because we:

- (a) have withdrawn our Bid prior to the expiry date of the Bid validity specified in the Letter of Bid or any extended date provided by us; or
- (b) having been notified of the acceptance of our Bid by the Purchaser prior to the expiry date of the Bid validity in the Letter of Bid or any extended date provided by us, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security, if required, in accordance with the ITB.

We understand this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiry date of the Bid validity.

Name of the Bidder* _____

Name of the person duly authorized to sign the Bid on behalf of the Bidder** _____

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

*: In the case of the Bid submitted by joint venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder attached to the Bid
[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Additional Documents in accordance with ITB clause 11.2 for each Lot

The bidder will submit the following plan to evaluate non-price factors:

i.1: Supply and Implementation Plan

i.2: Training Plan

i.3: After Sales Services Plan

i.1: Supply and Implementation Plan:

The plan must outline a clear strategy for sourcing, delivering, installing, and commissioning all items to ensure timely execution. It should include:

- Detailed sourcing and delivery schedules for all items.
- A comprehensive installation approach.
- Coordination mechanisms with stakeholders for testing, acceptance, and commissioning.
- An issue resolution and reporting framework to monitor progress, address challenges, and ensure on-time deployment.

i.2: Training Plan:

The training plan should present a structured approach for building the capacity of administrators, support staff, and end-users. It should include:

- Defined training objectives tailored to different user groups.
- Training methodologies such as hands-on workshops, virtual sessions, and in-person classes.
- A detailed training schedule covering operation, configuration, security best practices, and troubleshooting.
- Development and provision of training materials, including user manuals, video tutorials, and FAQs.

i.3: After Sales Services Plan (30%):

The Plan must, at a minimum, include the following:

- Response time for addressing complaints or service requests.
- Provision of maintenance services (preventive and corrective).
- Technical support (hotline, onsite support, remote diagnostics).
- Details of warranty coverage (scope, duration, conditions).

Letter of Bid - Financial Part

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT

Place this Letter of Bid - Financial Part in the second envelope marked “FINANCIAL PART”.

The Bidder must prepare the Letter of Bid - Financial Part on stationery with its letterhead clearly showing the Bidder’s complete name and business address.

Note: All italicized text is to help Bidders in preparing this form.

Date of this Bid submission: *[insert date (as day, month and year) of Bid submission]*

RFB No.: *[insert number of bidding process]*

Request for Bid No.: *[insert identification]*

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Purchaser]*

We, the undersigned Bidder, hereby submit the second part of our Bid, the Financial Part

In submitting our Financial Part we make the following additional declarations:

(a) **Bid Validity:** Our Bid shall be valid until *[insert day, month and year in accordance with ITB 18.1]*, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(b) **Total Price:** The total price of our Bid, excluding any discounts offered in item (c) below is:

In case of only one lot, the total price of the Bid is *[insert the total price of the bid in words and figures, indicating the various amounts and the respective currencies]*;

In case of multiple lots, the total price of each lot is *[insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]*;

In case of multiple lots, total price of all lots (sum of all lots) *[insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies]*;

(c) **Discounts:** The discounts offered and the methodology for their application are:

(i) The discounts offered are: *[Specify in detail each discount offered]*

(ii) The exact method of calculations to determine the net price after application of discounts is shown below: *[Specify in detail the method that shall be used to apply the discounts]*;

(d) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity]*.

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate “none.”)

(e) **Binding Contract:** We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed.

Name of the Bidder: **[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder: ****** *[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid: *[insert complete title of the person signing the Bid]*

Signature of the person named above: *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* **day of** *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder.

**: Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Price Schedule Forms

*[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column 1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirements.]*

UNOFFICIAL COPY

Price Schedule: Goods Manufactured Outside the Purchaser's Country, to be Imported

(Group C Bids, goods to be imported) Currencies in accordance with ITB 15							Date: _____ RFB No: _____ Alternative No: _____ Page N° _____ of _____	
1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price CIP <i>[insert place of destination]</i> in accordance with ITB 14.8(b)(i)	CIP Price per line item (Col. 5x6)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the Goods to their final destination specified in BDS	Total Price per Line item (Col. 7+8)
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert country of origin of the Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
Total Price								

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[Insert Date]*

Price Schedule: Goods Manufactured Outside the Purchaser's Country, already imported*

(Group C Bids, Goods already imported)

Currencies in accordance with ITB 15

Date: _____

RFB No: _____

Alternative No: _____

Page N° _____ of _____

1	2	3	4	5	6	7	8	9	10	11	12
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price including Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i)	Custom Duties and Import Taxes paid per unit in accordance with ITB 14.8(c)(ii) , [to be supported by documents]	Unit Price net of custom duties and import taxes, in accordance with ITB 14.8 (c) (iii) (Col. 6 minus Col.7)	Price per line item net of Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i) (Col. 5×8)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the goods to their final destination, as specified in BDS in accordance with ITB 14.8 (c)(v)	Sales and other taxes paid or payable per item if Contract is awarded (in accordance with ITB 14.8(c)(iv)	Total Price per line item (Col. 9+10)
<i>[insert number of the item]</i>	<i>[insert name of Goods]</i>	<i>[insert country of origin of the Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per unit]</i>	<i>[insert custom duties and taxes paid per unit]</i>	<i>[insert unit price net of custom duties and import taxes]</i>	<i>[insert price per line item net of custom duties and import taxes]</i>	<i>[insert price per line item for inland transportation and other services required in the Purchaser's Country]</i>	<i>[insert sales and other taxes payable per item if Contract is awarded]</i>	<i>[insert total price per line item]</i>
										Total Bid Price	

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

* *[For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been and/or have to be paid by the Purchaser. For clarity the Bidders are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those values.]*

Price Schedule: Goods Manufactured in the Purchaser's Country

Purchaser's Country _____		(Group A and B Bids) Currencies in accordance with ITB 15				Date: _____ RFB No: _____ Alternative No: _____ Page N° _____ of _____			
1	2	3	4	5	6	7	8	9	10
Line Item N°	Description of Goods	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price EXW	Total EXW price per line item (Col. 4x5)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the Goods to their final destination	Cost of local labor, raw materials and components from with origin in the Purchaser's Country % of Col. 5	Sales and other taxes payable per line item if Contract is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 6+7)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[Insert cost of local labor, raw material and components from within the Purchase's country as a % of the EXW price per line item]</i>	<i>[insert sales and other taxes payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
Total Price									

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Price and Completion Schedule - Related Services

Currencies in accordance with ITB 15						Date: _____ RFB No: _____ Alternative No: _____ Page N° _____ of _____
1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required in the Purchaser's Country to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)
<i>[insert number of the Service]</i>	<i>[insert name of Services]</i>	<i>[insert country of origin of the Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
Total Bid Price						

Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]*

Section V - Eligible Countries

Eligibility for the Provision of Goods, Works and Non Consulting Services in Bank-Financed Procurement

In reference to ITB 4.8 and ITB 5.1, for the information of the Bidders, at the present time firms, goods and services from the following countries are excluded from this Bidding process:

Under ITB 4.8 (a) and ITB 5.1: : *Israel*.

Under ITB 4.8(b) and ITB 5.1: None.

Section VI - Fraud and Corruption

(Section VI shall not be modified)

1. Purpose

- 1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

- 2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

- 2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:

- i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
- iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation 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 investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

PART 2 – Supply Requirements

Section VII - Schedule of Requirements

Contents

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Notes for Preparing the Schedule of Requirements

The Schedule of Requirements shall be included in the bidding document by the Purchaser, and shall cover, at a minimum, a description of the goods and services to be supplied and the delivery schedule.

The objective of the Schedule of Requirements is to provide sufficient information to enable Bidders to prepare their Bids efficiently and accurately, in particular, the Price Schedule, for which a form is provided in Section IV. In addition, the Schedule of Requirements, together with the Price Schedule, should serve as a basis in the event of quantity variation at the time of award of contract pursuant to ITB 45.1.

The date or period for delivery should be carefully specified, taking into account (a) the implications of delivery terms stipulated in the Instructions to Bidders pursuant to the *Incoterms* rules (i.e., EXW, or CIP, FOB, FCA terms—that “delivery” takes place when goods are delivered **to the carriers**), and (b) the date prescribed herein from which the Bidder’s delivery obligations start (i.e., notice of award, contract signature, opening or confirmation of the letter of credit).

1. List of Goods and Delivery Schedule

Lot-1: Supply, Installation and Commissioning Packaging Equipment for Semiconductor Lab at BUET

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
1	Supply, installation, commissioning & making functional the Flip chip bonbder	1	Nos	Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh	28 weeks from the date of signing of Contracts for goods supplied from Purchaser's Country and from date of Opening of Letter of Credit (L/C) for the goods supplied from outside the Purchaser's Country as the case be.	
2	Supply, installation, commissioning & making functional the Solder paste printer	1	Nos			
3	Supply, installation, commissioning & making functional the Die and Wire Bonder	1	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
4	Supply, installation, commissioning & making functional the Wafer dicer	1	Nos			
5	Supply, installation, commissioning & making functional the Solder reflow	1	Nos			
6	Supply, installation, commissioning & making functional the Bond tester	1	Nos			
7	Supply, installation, commissioning & making functional the Electrochemical deposition	1	Nos			
8	Supply, installation, commissioning & making functional the Semiautomated DC prober	1	Nos			
9	Supply, installation, commissioning & making functional the Probe Station for Sensor measurement / DC Current-voltage and	1	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
	Capacitance-voltage with Temperature Variation					
10	Supply, installation, commissioning & making functional the Solar Simulator High Quality Solar Simulator	1	Nos			
11	Supply, installation, commissioning & making functional the Rapid Thermal Processing furnace	1	Nos			
12	Supply, installation, commissioning & making functional the Wet chemical fume hood (x2)	2	Nos			
13	Supply, installation, commissioning & making functional the Hi-Speed Spin Coater With Programmable Control and Optional Heating Cover	1	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
14	Supply, installation, commissioning & making functional the Hot plate(x3)	3	Nos			
15	Supply, installation, commissioning & making functional the DI water system/ Laboratory ultra pure water purification system	1	Lot			
16	Supply, installation, commissioning & making functional the Microwave Plasma Ashing System	1	Lot			

Lot-2: Supply, Installation and Commissioning Testing Equipment for Semiconductor Lab at BUET

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
1	Supply, installation, commissioning & making functional the FTIR Spectrophotometer	1	Nos	Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh	28 weeks from the date of signing of Contracts for goods supplied from Purchaser's Country and from date of Opening of Letter of Credit (L/C) for the goods supplied from outside the Purchaser's Country as the case be.	
2	Supply, installation, commissioning & making functional the BIO ONE 3D Bioprinter	1	Nos			
3	Supply, installation, commissioning & making functional the Wafer prober	1	Nos			
4	Supply, installation, commissioning & making functional the	1	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
	Semiconductor Device Parameter Analyzer					
5	Supply, installation, commissioning & making functional the High Power Semiconductor Device Testing System	1	Nos			
6	Supply, installation, commissioning & making functional the Double Pulse Test (DPT) Set Up for Semiconductor Device	1	Nos			
7	Supply, installation, commissioning & making functional the DC Power Supply: 800V & 4A, 1kW Power	1	Nos			
8	Supply, installation, commissioning & making functional the DC Power Supply: 30V & 100A, 1kW Power	1	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
9	Supply, installation, commissioning & making functional the Vector Network Analyzer for RF characterization (43.5 GHz)	1	Nos			
10	Supply, installation, commissioning & making functional the Precision Source Measure Units (SMU)/ Resistivity measurement	1	Nos			
11	Supply, installation, commissioning & making functional the High Bandwidth Digital Real-Time Oscilloscope (40 GHz)	1	Nos			
12	Supply, installation, commissioning & making functional the Highly Accelerated Stress Test (HAST) Chamber	2	Nos			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
13	Supply, installation, commissioning & making functional the Tabletop Atomic Force Microscope (AFM) with 100 X 100 X 17 Scanner	1	Nos			

Lot-3: Supply, Installation and Commissioning of Fabrication (FAB) Equipment for Semiconductor Lab at BUET

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
1	Supply, installation, commissioning & making functional the 1000 Sq. Ft ISO8 Class 100,000 Modular Cleanroom	1,000	sq. ft	Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh	28 weeks from the date of signing of Contracts for goods supplied from Purchaser's Country and from date of Opening of Letter of Credit (L/C) for the goods supplied from outside the Purchaser's Country as the case be.	
2	Supply, installation, commissioning & making functional the Photolithography - Mask Aligner and UV LED Light Source Exposure System	1	Lot			
3	Supply, installation, commissioning & making functional the Reactive Ion Etching System	1	Lot			

Line Item No.	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
4	Supply, installation, commissioning & making functional the Physical Vapor Deposition (Sputter) - Thin Film Deposition System	1	Lot			
5	Supply, installation, commissioning & making functional the Atomic Layer Deposition (ALD) System	1	Lot			
6	Supply, installation, commissioning & making functional the Plasma enhanced chemical vapor deposition	1	Lot			

2. List of Related Services and Completion Schedule

[This table shall be filled in by the Purchaser. The Required Completion Dates should be realistic, and consistent with the required Goods Delivery Dates (as per Incoterms)] - NOT APPLICABLE

Service	Description of Service	Quantity ¹	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
<i>[insert Service No]</i>	<i>[insert description of Related Services]</i>	<i>[insert quantity of items to be supplied]</i>	<i>[insert physical unit for the items]</i>	<i>[insert name of the Place]</i>	<i>[insert required Completion Date(s)]</i>

1. If applicable

3. Technical Specifications

for

Supply, Installation and Commissioning of Semiconductor Lab

Lot-1: Supply, Installation and Commissioning Packaging Equipment for Semiconductor Lab at BUET

Note:

The end user of all supplied goods will be an academic institution. The equipment will be utilized strictly for academic research purposes. Therefore, bidders are requested to apply the academic cost waiver when pricing their offers.

1. Item Name: Flip chip bonbder

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Mounting Capacity: Up to 4,500 UPH (0.8 sec/unit) Placement Accuracy: 10 μ m (3 σ) precision Wafer Size Support: 6-inch, 8-inch, 12-inch Component Size: 0.6mm x 0.6mm to 18mm x 18mm Substrate Size: 50x30mm to 250x200mm (up to 340x340mm) Supply Form: Wafers (6/8/12-inch), Honeycomb tray, Tape tray (8mm, 12mm, 16mm width) Power Supply: Three-phase AC 200-416V \pm 10%, 50/60 Hz Gas Requirements: Pressure \geq 0.5 MPa, Clean & dry air Dimensions: Main Unit: 1400mm x 1820mm x 1515mm With YWF Wafer Feeder: 1400mm x 2035mm x 1515mm Weight: Approx. 2,470 kg (Main Unit); Approx. 2,780 kg (With Wafer Feeder)

2. Item Name: Solder paste printer

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Max PCB Size: 400mm x 240mm Printing Area: 500mm x 320mm PCB Fixing System: Pin Positioning Frame Size: Length: 550mm - 650mm, Width: 370mm -

		470mm Table Adjustment: Front/Rear: $\pm 10\text{mm}$, Left/Right: $\pm 10\text{mm}$ Printing Accuracy: $\pm 0.2\text{mm}$ Repeating Accuracy: $\leq 0.2\text{mm}$ Applicable PCB Thickness: 0.2mm - 2.0mm Move Speed: 0-2200mm/Min Air Source Requirement: 0.5MPa - 0.8MPa Power Supply: 220V Single Phase, 50Hz Machine Dimensions: L700mm x W900mm x H1700mm Net Weight: 230kg Control: PC with Touch Screen Display Features: Floating Scraper Mechanism for automatic leveling Adjustable Scraper Pressure Adjustable Steel Grid Separation Time Dual-Hand Safety Operation Multiple PCB Localization Methods Real-Time Display and Printing Count Recording Adjustable Scraper Speed with Emergency Stop
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3. Item Name: Die and Wire Bonder

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Bonding: Wedge, Ball, Die Bonding Bond Force: 5 to 500 cN (Programmable) Accuracy: High-precision Touchdown Detection Substrate Handling: 80mm, 2"x2" (Optional 4"x4"), Vacuum/Manual Clamping Dimensions: WxDx H- 63 x 58 x 40 cm Manipulator: Manual Die-Bonding with Touchdown Detection Control System: Single-board PC, Windows OS, 6.5" LCD Programming: Shuttle-wheel & Button Interface Axis Precision: Z-Axis: 60 mm (1 μm), Y-Axis: 25 mm (2 μm) Chip Source: Waffle Packs, Jelly Packs, Trays (2" x 2") Vacuum/Gas Control: Automatic Switching Power Supply: 100-240 VAC, Single-Phase, 50/60 Hz, max. 230 VA Workholder: 4"x4" Heated with Vacuum Clamping.

		<p>Basic machine w. US-Generator 60/100kHz High-precision manual bonder with ultrasonic generator (60/100kHz) Supports wedge, ball, and die bonding</p> <p>Multi Function Bondhead w. Software Programmable pickup and bond force (5-500 cN) Touchdown detection system for precise chip placement</p> <p>Heater controller integrated in housing Built-in temperature control system for stable bonding</p> <p>Workholder 4x4 heated with Vac 4×4-inch heated platform with vacuum for substrate stability</p> <p>2nd Clamping Unit for 4x4 workholder Additional mechanical support for better workpiece handling</p> <p>Capillary /wire 25um Compatible with 25µm bonding wire</p> <p>Motorized Wirespool 53BDA Automated wire feeding system for smooth bonding</p> <p>Olympus Microscope High-resolution optical system for alignment and inspection</p> <p>Crate Protective packaging for secure transportation</p> <p>Transducer Screws (5 pcs) Precision screws for transducer assembly</p> <p>Wedge and wire Standard bonding tools for wedge and wire bonding</p> <p>5380-BDA Pick up Head Adapter for die collet integration</p> <p>Software for Pick Up Programmable single Bonds Loop shapes can be saved</p>
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		<p>Squeeze for Epoxy Stamping 4x4 workholder</p> <p>Integrated epoxy dispensing system for die attachment</p> <p>Programming</p> <p>Installation</p> <p>Shipping Charge</p>
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4. Item Name: Wafer dicer

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Laser Wavelength: 1064nm (Infrared Fiber Laser)</p> <p>Laser Power: 20W/50W</p> <p>Minimum Cutting Size: 1-2 mm (Customizable)</p> <p>Scribing Line Width: $\leq 50\mu\text{m}$ (High precision)</p> <p>Scribing Speed: Up to 240 mm/s (Adjustable)</p> <p>Scribing Precision: $\pm 10\mu\text{m}$</p> <p>Workbench Size: 200×200mm</p> <p>Temperature Control Precision: $\pm 0.5^{\circ}\text{C}$</p> <p>Cooling System: Air Cooling / High-Precision Constant Temperature Water Cooling</p> <p>Workholding: Cell Automatic Adsorption with Dust Removal</p> <p>Power Supply: 220V/50Hz/1.5KVA (Single-phase)</p> <p>Software Features: Arc Interpolation, Programmable Cutting Patterns, Curved/Straight-Line Cutting, Touchscreen, Servo Motor Control (Optional)</p> <p>Software Version: Upgraded V5.0 (Parameter control, Configuration storage)</p> <p>Laser Beam Quality: TEM00 mode for fine cutting, Higher peak power</p> <p>Motion Control: Computer-controlled Two-Dimensional Worktable</p>

5. Item Name: Solder reflow

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Conveyor Type: Rail-Based Automated Conveyor</p> <p>Heating Zones: 12 Zones (6 Upper, 6 Down)</p> <p>Heating Method: Nickel-Chromium Alloy Wire &</p>

		<p>Aluminum Alloy Heating Plate Cooling System: 4 Upper Fans with Independent Circulating Air Controller: VGUS Microcomputer Conveyor Speed: 50~600 mm/min Temperature Range: Room temperature to 300°C Temperature Accuracy: $\pm 1^{\circ}\text{C}$ PCB Temperature Deviation: $\pm 2^{\circ}\text{C}$ Max Soldering Width: 300mm Preheating Time: 20-30 minutes Max Soldering Height: Upper 30mm, Down 15mm Operation Direction: Left \rightarrow Right Power Supply: AC 220V, Single Phase Starting Power: 2.2kW~4.8kW (Adjustable) Typical Working Power: Approx. 2kW (for 1.5mm fiberglass PCB) Machine Size: L2305 x W612 x H1230 mm Airflow Control: Adjustable Wind Speed for All Zones Control System: PID Algorithm-Based Intelligent Temperature Control Net Weight: 300kg PCB Stability: Custom Stainless Steel B-Type Mesh Belt, Low Vibration Support for 0201 & BGA</p>
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6. Item Name: Bond tester

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Type: Wire Bond Strength Tester Application: Destructive & Non-Destructive Testing Compliance: MIL-STD-45662, MIL-STD-883C Testing: On-line, High-Accuracy Dimensions: 8" W \times 6" D \times 6" H Weight: 3 lbs. (1361 g) Testing Modes: Destructive & Non-Destructive Pull Testing Accessories: 4 Gauges, 4 Weights, 4 Pull Hooks, 1 Chuck Features: Portable, High-Precision, MIL-STD Compliant Use Cases: IC Assembly QC, Semiconductor Testing, R&D</p>

7. Item Name: Electrochemical deposition

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Power Supply: 220/120 VAC, 50-60 Hz, 5/10A Wafer Holder: 2 cm² to 4 inches, Uniform current distribution Plating Metals: Cu, Ni, Pd, Au, Sn, Pb, Pt, Fe, Ag, alloys Control: Current: 0.1A-3.0A, Voltage: 0-10V, Stability: ± 1mA Rectifier: Programmable Reverse-Pulse, Timer: 0.01ms to 99s Pump & Filtration: Flow Rate: 400 GPH, 1μ filtration Safety: Fume exhaust, Heater: Max 160°F, 550W Physical: Solution Volume: 8 liters, Footprint: 20" \times 20" \times 25"</p> <p>Electrochemical deposition CUSTOM WAFER HOLDER SET (SIZE TBD OVER 4IN/ UNDER 8IN) CUSTOM WAFER HOLDER SET (SIZE TBD UNDER 4IN) CUSTOM WAFER HOLDER SET (SIZE TBD OVER 8IN/ UNDER 12N) RETURN UNIV CUSTOMER DISCOUNT (3.5%) CRATING/SHIPPING/INSURANCE EST</p>

8. Item Name: Semiautomated DC prober

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder

3	Main Features	<p>Y-4 4" DC Probe Station :</p> <p>Probe station for 4-inch wafers with 5um accuracy. Stainless steel grounded station with side holes for electrode testing.</p> <p>Vacuum adsorption with independent air valve control; 1mm hole diameter.</p> <p>360° horizontal rotation with $\pm 15^\circ$ micro-adjustment (0.1° accuracy).</p> <p>X-Y axis travel: 100mm, 2um moving accuracy.</p> <p>Z-axis travel: 10mm, 5um fine-tuning accuracy.</p> <p>U-shaped probe holder platform for up to 6 probe holders.</p> <p>Microscope rotates 360° around the column.</p> <p>microscope:</p> <p>Triocular stereo microscope;</p> <p>Microscopic zoom: 0.8X-5X;</p> <p>Goggles: 20X, Total Magnification: 16X-100X;</p> <p>Working distance: 110mm;</p> <p>Z-axis adjustment travel: 50mm;</p> <p>Camera connector: C-Mount connector</p> <p>Optical resolution: 2um;</p> <p>External ring light source, brightness can be stepless adjustment;</p> <p>Industrial camera</p> <p>Industrial camera YC-1200:</p> <p>Standard C connector for microscope.</p> <p>12MP, 1/2.33" Panasonic sensor.</p> <p>Support HDMI and USB dual interface.</p> <p>Resolution: 1980*1080P.</p> <p>Photos/recording/SD card storage/measurement to computer.</p> <p>Exposure/white balance/color adjustable.</p> <p>11.6-inch monitor.</p> <p>Probe holder</p> <p>Probe holder YZ-200:</p> <p>Three-dimensional adjustable probe holders with magnetic retention and switch control. XYZ travel distance of 12mm. Moving accuracy of 2um. Includes DC tilt fixture for height adjustment.</p>
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		<p>YGT-2000 I-V, C-V probe clamp. Copper tube fixing method. 2.0 Meter Triaxial Cable, Triaxial Male Connector. Maximum measurable voltage 1000V, maximum measurable current 3A. Leakage precision better than 100fA. Imported high quality connectors, cables. Applicable test instruments: Keithley 2600 series / 4200 series; Keysight B1500 series, etc.</p> <p>Probe ST-20-5 : Type: ST Series Tungsten Steel Probes Needle Bar Length: 38mm Needle Bar Diameter: 0.51mm Needle Tip Radius: 5um Quantity: Five in a box</p> <p>Shielding Screen YPB-700*700: Double-door shielding box required. Must shield external signal and light interference. Adapter plate mounting provision on left and right sides. Reserve wire outlets. Dimensions: 700mm L x 700mm W x 1000mm H.</p> <p>Vacuum chuck : Vacuum chuck VP0125 Type: Vacuum chuck. Vacuum pump: Silent oil-free. Vacuum level: -33.3kPa. Pumping speed: 7L/Min. Dimensions: 100mmL*75mmW*90mmH. Weight: 0.7kg. Wafer Compatibility: 4-inch, 6-inch, 8-inch, 12-inch. Application: Wafer and chip vacuum adsorption.</p>
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9. Item Name: Probe Station for Sensor measurement / DC Current-voltage and Capacitance-voltage with Temperature Variation

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Electricity Demand: AC220V,50~60Hz CDA demand: 0.4~0.8Mpa</p> <p>Chuck: Chuck Size: 6" Chuck X-Y Travel range: 200mm * 300mm Chuck X-Y Resolution: 0.1μm Chuck X-Y Repeatability: ≤±1μm Chuck X-Y Move speed: ≥70mm/sec Chuck Z Travel range: 20mm Chuck Z Resolution: 0.1μm Chuck Z Repeatability: ≤±1μm Chuck Z Move speed: ≥20mm/sec Chuck Theta Travel range: ±10° Chuck Theta resolution: 0.0001° Sample Fixed mode: Vacuum adsorption, Independent control Sample Exchange: Chuck quickly roll out for wafer fast exchange. Structure: Triaxial ultra-low noise design,Gold plating, Chuck surface is electrical floating</p> <p>Platen Specifications: O shape platen, 12 micropositioners available (When the octagon box is not installed)</p> <p>Microscope: Microscope X-Y-Z X-Y Travel range: 2"* 2" Microscope X-Y-Z X-Y Resolution: 0.1μm Microscope X-Y-Z X-Y Repeatability: ±2μm Microscope X-Y-Z X-Y Move speed: ≥10mm/sec Microscope X-Y-Z Z Travel range: 5" Microscope X-Y-Z Z Resolution: 0.1μm Microscope X-Y-Z Z Repeatability: ≤±1μm Microscope X-Y-Z Z Move speed: ≥10mm/sec</p> <p>Variable magnification microscope: Zoom:15:1,Three gears and could display low (0.6X) and high(2.5X or 9X) magnification in the same time</p>

		<p>Camera: Double cameras (200W or 500W Industrial digital camera)</p> <p>Mechanical resolution: 10μm / 2μm / 0.7μm</p> <p>Micropositioner X-Y-Z Move range: 13mm-13mm-13mm</p> <p>Micropositioner Current leakage: 10pA / 100fA / 10fA</p> <p>Micropositioner Connector type: Banana plug adapter/Coaxial /Three-axis/ SMA /SHV etc.</p> <p>Base: Magnetic/vacuum adsorption base</p> <p>Overall Dimension (W*L*H): 1000mm * 1400mm * 1400mm (Approx)</p> <p>Overall Weight(about): 1000KG (Approx)</p>
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10. Item Name:**Solar Simulator High Quality Solar Simulator**

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Lamp Luminous Efficiency: 50 lm/w</p> <p>Color Temperature (CCT): Pure white</p> <p>Input Voltage (V): AC 220V(\pm 10%)</p> <p>Color Rendering Index(Ra): 50</p> <p>Support Dimmer: Yes</p> <p>Lighting solutions service: Lighting and circuitry design</p> <p>Lifespan: 750 hours</p> <p>Working Time: 10000 hours</p> <p>Specification: 500w</p> <p>Color: White</p> <p>Voltage: 220v 50hz</p> <p>Certification: CE ISO</p> <p>Luminous Efficacy: 300 lm/w</p> <p>Product Weight: 50 kg (Approx)</p> <p>Warranty: 1-Year</p>

11. Item Name: Rapid Thermal Processing furnace

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Maximum Temperature: 1200 $^{\circ}$C</p> <p>Working Temperature: 1100$^{\circ}$C</p>

		<p> Temperature Accuracy: $\pm 1^{\circ}\text{C}$ Temperature Field Uniformity: $\pm 2^{\circ}\text{C}$ Fastest Heating Rate: 100°C/S Fastest Cooling Rate: 100°C/S Control System: Intelligent PID auto control Control Panel: 7 inch touch screen Heating Element: Short wave infrared ray heating Heating Hearth Structure: Double layered tube Gas Flow Way: Outer tube inlet gas, inner tube outlet gas Expansion Port: Can expansion vacuum measuring and FFC air supply Overcurrent Protection: Yes Over Heat Alarm: Yes Sensor Type: S-type thermocouple Reaction Chamber Size: $\Phi 100*200\text{mm}$ Effective Space: 3.5inch Air-tightness: $9.8 \times 10^{-4}\text{Pa}$ Air Exhaust Size: KF16(or $\Phi 8\text{mm}$ pagoda joint) Air Supply Port Size: $\Phi 6.35\text{mm}$ Swagelog(or $\Phi 8\text{mm}$ pagoda joint) Sample Cooling Method: Air cooling Flange Cooling Method: Water cooling Rated Power: 15 kw Power Supply: AC 380V,50Hz Overall Dimensions: $950*500*560\text{mm}$ Weight: 55Kg </p>
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12. Item Name: Wet chemical fume hood (x2)

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p> Size(W*D*H): $1200*850*2350\text{ mm}$ Exhaust air volume: $1200\text{-}1800\text{m}^3/\text{h}$ Air Velocity: $0.4\text{-}0.8\text{m/s}$ Noise: $\leq 48\text{dB(A)}$ Sash: 6mm thickness tempered glass Operation Table Board: Trespa panel / Epoxy resin / Stainless Steel / Ceramics /PP Lighting equipment: Full Cover Type Three-way Lamp, Lamp Cover with $220\text{v} * 20\text{w} * 2$ Operation panel: Lighting Switch, ON/OFF Switch, Two Sets of $220\text{V}/10\text{A}$ Versatile Electric Socket Ventilation equipment: Selecting rust-resistance, low wasting, low noise and famous fan and special wind tube, </p>

		<p>Noise can be reduced at about 55 DB.</p> <p>Accessories: Cock: made by brass, the surface is treated by EPOXY baking paint; Cup slot: acid and alkali resistance, PP water cup</p> <p>Sink: PP Sink, Epoxy Resin Sink, Stainless Steel Sink</p> <p>Electric Socket: Multi-functional with splash-proof box and safeguard cover.</p>
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13. Item Name: Hi-Speed Spin Coater With Programmable Control and Optional Heating Cover

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Spin Speed: 500-10000 RPM programmable</p> <p>Substrate Size: Accepts 5 mm to 5" substrates</p> <p>Chamber Material: PP chamber for anti-corrosive operation</p> <p>Gas Inlet: One gas inlet port on cover for inert gas</p> <p>Syringe: One 20ml Plastic Syringe included</p> <p>Safety: Safety interlock integrated into lid</p> <p>Vacuum Chuck Diameter: 150 mm</p> <p>Vacuum Pump: 120L/min Oilless Vacuum Pump</p> <p>Programmable Control Duration: Up to 60 seconds</p> <p>Acceleration: 100-2000 rpm/sec adjustable</p> <p>Accuracy: <5%</p> <p>Programmable Segments: Digital control panel stores 12 programs</p> <p>Input Power: AC 220V (AC 110V available)</p> <p>Total Power: 1000W for pump and motor</p> <p>Motor Voltage: 24VDC</p> <p>Gas Inlet Diameter: 6mm</p> <p>Liquid Injection: Standard 20ml plastic syringe</p> <p>Optional Features: PE/PTFE Heating cover, Heatable Syringe, Vacuum Flash Assembly</p> <p>Product Dimensions: 450mm Depth x 280mm Width x 340mm Height</p> <p>Net Weight: 20kg</p>

14. Item Name: Hot plate(x3)

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder

2	Country of Origin	To be mentioned by the bidder
3	Main Features	Max Temperature: 120°C Warranty: 1 year Size: 315*225*65mm Material: Plastic Weight: 2kg Display Mode: LCD Speed Range: 50-1200rpm Heating Temperature: 120°C Number of Stirring Points: 4 Maximum Agitation: 4*500ml Timing Range: 1min-19h59min Disk Material: 304 stainless steel Disk Size: 110mm(single) Product Size: 315*225*65mm

15. Item Name: DI water system/ Laboratory ultra pure water purification system

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Sterilization Type: Ultra-pure water machine with germicidal lamp Application Field: High purity water, blood test, toxicity test, atomic absorption, HPLC, gas chromatography, buffer solutions Inlet Water Requirements: City tap water (TDS<250PPM/5-45 °C/0.02-0.25MPA/PH3-10) System Water Production: 15 liters/hour at 25°C Ultrapure Water Output: 1.5 liters/min (opening pressure storage tank) at 25°C Reverse Osmosis Water Output: 2 L/min (opening pressure storage tank) UP Water Resistivity: 18.25MΩ.cm@25°C TOC: <5ppb Microbial Bacteria: <0.1CFU/ml Power Supply: AC220V±10%,50Hz Power: 120W Dimensions: 35 x 36 x 42cm (Length x Width x Height) (Approx)

16. Item Name: Microwave Plasma Ashing System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Chamber Size: 400*495*435mm Chamber Material: Aluminum Alloy Microwave Power: 2.45Ghz, 100-1000W, adjustable Gas: Standard 1, mass flow meter Vacuum Measurement: Pirani vacuum gauge Control System: PLC Vacuum Pump: Dual-stage rotary vane vacuum pump Microwave: 2&3KW RF: 0.6W&1KW Non-damage plasma clean Effectively clean small holes and internal surface Strong deoxidation ability Low process temperature Applications: Removal of organic containment, polymer activation, metal deoxidation, PR descum, polymerization coating. Size: 850*1600*1070

Lot-2: Supply, Installation and Commissioning Testing Equipment for Semiconductor Lab at BUET

Note:

The end user of all supplied goods will be an academic institution. The equipment will be utilized strictly for academic research purposes. Therefore, bidders are requested to apply the academic cost waiver when pricing their offers.

1. Item Name: FTIR Spectrophotometer

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Spectral range: 7800-350cm Resolution: Better than 1.0cm Signal-to-noise ratio: 30000:1 (P-P value, 4cm, 1min scan) Wave-number accuracy: Better than 0.01cm Transmittance accuracy: Better than 0.5t% Interferometer: Non-orthogonal Michelson interferometer Data transmission interface: High-speed USB2.0 (compatible with USB3.0) Power supply: 100V-240V, 50/60Hz wide range power supply Compatible operating system: Windows XP, Windows Vista, Windows7, 8, 10, 11 Sample compartment size: 190*160mm Instrument size: 450×350×210mm Weight: 14kg

2. Item Name: BIO ONE 3D Bioprinter

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Printhead volume: 2.5mL Theoretical volume unit step: 0.1 µL Printhead dispensed volume CV: < 5% @ 10 µL for water Printhead temperature range: 0°C - RT ± 1°C Printhead flow rate range: 1 - 50 µL/sec Build surface compatibility: Petri dishes and multi-well plates (6 to 384 wells) Build volume: 130 mm x 80 mm x 50 mm

		Printbed temperature range: RT - 65 °C Photocuring system: 405 nm LED Calibration options: Manual and Automatic Linear positioning precision: XY: 10 µm, Z: 2.5 µm Software: DNA Studio Core Supported file formats: .gcode, .stl, .obj, .amf Desktop application compatibility: Windows 11 and Windows 10 Connectivity: USB, SD-card Operating temperature range: 15-30 °C Power supply: Input: 100-240VAC, 50/60Hz, 2.0A Output: 24VDC, 6.67A, 160W Outer dimensions (D x W x H): 325 mm x 370 mm x 380 mm Weight: 15 kg
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3. Item Name: Wafer prober

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	SemiProbe SA8 MP Probing System Multi-purpose probing system for various measurements. Designed for general purpose measurements. Field upgradeable for new modules/accessories. PS4L SA with DB Semiautomatic Probe System for Life (PS4L) Probe System with Dark Box. Architecture: Patented Probe System For Life (PS4L). Platform: Modular. Components: Interchangeable. Configuration: Configurable to meet application Upgrade Path: Perpetual field upgrade. PS4L SA8 High Voltage PS4L 200 mm (8") Semiautomatic Probing System configured for a High Voltage Application Probe System For Life (PS4L) Platform. A-VIB-VIT-200-12006

		<p>30" x 36" x 2" (750 mm x 900 mm x 50 mm) Vibration Isolation Table with stainless steel Clean Top II Optical Breadboard. Stainless steel magnetic table top with M6 holes on 25 mm centers. Gimbal Piston Isolators. Thin-Wall Rolling Diaphragms. All-brass height control valves. Internal Piston Travel Restraints. Tiebar Gussets. Rugged and adjustable built in leveling feet and casters.</p> <p>A-PSL-STG-08-IT-1554 200 mm High Speed Programmable Stage with linear encoders for Probe System for Life. X-Y Travel: 210 mm x 210 mm, additional Y manual travel of 200 mm with loadstroke (chambered systems). Accuracy: $\pm 1.5 \mu\text{m}$. Resolution: $0.1 \mu\text{m}$. Repeatability: $\pm 0.5 \mu\text{m}$. Max Speed: 70 mm/sec. 5 mm pitch leadscrew, Nema 17 brushless DC motor. Optical linear encoders. 4 Axes Controller with ethernet and RS232 interface. Includes motor drivers, DC power supply, all required cables (10 ft.) software and 19" rack. Z Stage - Low profile with vertical lift. Travel: 15 mm. Accuracy: $\pm 1 \mu\text{m}$. Resolution: $0.1 \mu\text{m}$. Repeatability: $\pm 0.5 \mu\text{m}$. Wedge driven, NEMA 17 brushless DC motor, 0.95 Amps. Velocity: 24 mm/sec. Load: 10 kg. Theta - 8" Rotary Stage Travel: ± 5 degrees (User Specified - could be more). Accuracy: ± 0.0025 degrees. Repeatability: ± 0.0015 degrees. Resolution: 0.000752 degrees, 0.29 arc-secs. Max Speed: 7 degrees/sec Nema 17 brushless DC Motor, 0.95 Amps/phase</p> <p>A-CKT-TCA KIT-2125</p>
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		<p>Thermal Chuck Adapter Kit for mounting Thermal chuck on prober. Includes thermal chuck adapter and cable routing kit. Thermal Chuck Adapter - is the mechanical interface between the chuck and wafer stage. Cable Routing Kit - keeps the heating and cooling cables moving in unison with the wafer stage.</p> <p>A-CKT-RN-200-+25 to 300-0002 System: ATT Hot Chuck System A200H+25 to +300° C Chuck: 200 mm thermal chuck. Temperature Range: Ambient to +300° C Controller: A200 controller Temperature Stability: +/- 0.1° C Temperature Accuracy: +/- 0.5° C Heating Rate: +25°C to +300°C < 12 min Cooling Rate: +300C to +25° C < 11 min Temperature Uniformity: +25°C to +300°C <+/- 0.5k/0.5% Flatness/Parallelism: +25°C to +300°C <+/- 10 um Isolation: > 10 TOhm @ 25°C Capacitance: 1000 pF - standard, 100 pF - triax Maximum Voltage: 500 V at chuck top Interface: RS232 - standard Chuck Dimensions: Diameter - 203 mm, Height - 28 mm, Weight - 2750 g Plating: Nickel - standard, Gold - optional Controller Dimensions: 250 mm x 480 mm x 120 mm, Weight - 11.0 Kg Air Supply: 200 l/min @ 6 bar, Dewpoint < 0°C, oil-free Power Supply: 100-127/208-240 V 50/60 Hz, AC, 800VA</p> <p>A-CKT-AOHV-G-200-30 04 ATT Hot Chuck High Voltage (HV) Triaxial AddOn Surface - 200 mm thermal chucks. Low Leakage/Noise Triaxial AddOn stack for 200 mm chucks. Ceramic Isolation: 2 layer. Gold Plated: thickness 2 um. Vacuum Holes with Vacuum Zones - 10 mm x 10 mm, 100 mm, 150 mm, 200 mm. Maximum Voltage: 10 KV (coaxial), 3 KV (triaxial). Maximum Current: 100 A. Chuck HV Cables ordered separately.</p>
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		<p>A-CAC-HV-KEY-3KV-001 Triaxial 3 KV HV Keysight vacuum chuck cable. Features: Includes a Keysight 3 KV HV triaxial cable and connector. Customer can easily change.</p> <p>A-PLIFT-STSA200-0001 PS4L Platen Lift Kit for 200 mm systems. Includes PS4L platen with removable front wedge. Coarse and fine linear platen lift. Cover panels and switches included. Large, rigid and stable platen design. One piece platen, aluminum with steel skin. Platen size: 625 mm x 775 mm. Supports RF, DC, OPTO manipulators (up to 16). 6 mm linear lift via lever (coarse adjust). 300 um contact/separation stroke. Vacuum Manifold Kit compatibility. Probe card holder compatibility.</p> <p>A-SM-KIT-0001 A Stereozoom microscope mount, movement and adapter kit. Includes a universal post stand. Includes a 100 mm x 100 mm X-Y coaxial microscope movement. Independent axis locks are included. Includes a stereozoom microscope adapter. Optics ordered separately.</p> <p>A-OPT-FM-71-7520 Optem FUSION Micro-Imaging Lens System with Coaxial LED Illumination Modular 7:1 imaging system for probing, inspection, and metrology. Upgrade Path offers change out modules for form, function, and performance. Quickly and easily modified to meet performance envelopes. Varies optical magnification, video magnification, working distance, resolution, field of view, and depth of focus. Modifications can be done at the customer's site.</p>
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		<p>7:1 zoom imaging adjusts magnification with c-mount camera adapter and 0.8x camera tube. Includes objective adapter and LED coaxial illuminator. Accepts objectives from Optem, Motic, Mitutoyo and Seiwa microscopes. Objectives and CCTV Camera sold separately. Minimum Configuration Specifications provided. Magnification ranges from 0.067x (low zoom) to 0.46x (high zoom). Resolution ranges from 14 lp/mm (low zoom) to 47 lp/mm (high zoom). Field of View (mm) with 2/3 camera - 131 x 98 mm (low zoom) to 19 x 14 mm (high zoom).</p> <p>A-OPT-CM-OBJ-2xLL-00 01 2x Lower Lens - Fusion Zoom Tube, 100 FL, long working distance.</p> <p>A-OPT-FM-OBJADAP-00 01 Fusion Objective Adapter. Allows compound microscope objectives to be used with zoom tube. Adapter inserts into the bottom of the zoom tube. Objective is inserted into the adapter.</p> <p>A-OPT-CM-OBJ-10x-75 18 10x M PLAN APO, Infinity-Corrected Objective 0.30 Numerical Aperature (NA) 34 mm working distance (W.D.)</p> <p>A-CTV-SEN-15017 Complete CCTV System Includes HD-Output DVI Camera, 24" Color Monitor, HDMI Cable, Camera Adapter, Power Supply and Cables Digital HDMI Camera with direct connect to monitor Universal power supply and 12' (3.5 m) HDMI cable included 1/2" CMOS Sensor with 1080p (p = progressive scan) 1936 (H) x 1096 (V) still photo resolution Standard HDMI output C Mount Lens Mount</p>
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	<p>60 fps (frames per second) 24" (60 cm) Full HD Widescreen LCD flat panel monitor DVI and VGA Inputs to connect with HD devices 1080p HD resolution, 115-230 V, 50-60 Hz, HDMI and USB Input</p> <p>A-CPC-SPC-W11 OS-0001 19" Rackmount Industrial PC ATX Motherboard Minimum System Configuration Processor: 3.1 GHz - Intel, 64 bit RAM: 8 GB DDR3 Hard Drive: 1 TB Includes Keyboard and Mouse Includes Windows 11 Operating System (x86) Ports - Six (6) USB 2.0, (2) and 3.0 (4), integrated LAN and RS-232 (2) Final PC configuration may vary based on application requirements</p> <p>A-CPC-GPIB-P-1001 SemiProbe GPIB Interface required. Must control SemiProbe probe system from an external device. PC, Unix, Instrument and more compatibility required. All necessary drivers and hardware included. PILOT Navigator Module (PNM) Core Software required.</p> <p>A-Monitor-24-V-15056 CCTV Color Monitor 24 inch (60 cm) Full HD Widescreen LCD flat panel monitor DVI and VGA Inputs 1080p HD resolution 115-230 V, 50-60 Hz HDMI Input USB Input</p> <p>A-SOF-PNM-14000 Computer control interface for semiautomatic and fully</p>
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		<p>automatic probing systems. Table commands for saving and moving between X-Y-Z locations. Pilot control for station movement from computer console. Operator-friendly graphical user interface (GUI). Video image capture and wafer mapping availability in the Video module. Free upgrades for 1 year.</p> <p>A-SOF-PWMM-14010 SemiProbe PILOT Wafer Map Module automatically generates a mathematical equivalent of a wafer. Enables adding and removing die to mimic the actual wafer. Allows binning die based on pass/fail criterion. Equipped to rotate the wafer enabling back and front side inspection. Automatically transfers results to the front side wafer map. Automatically transfers bad die as marked. Wafer map files can be exported to Excel or HTML. Requires SemiProbe Pilot Core Software V 1.0. Free upgrades for 1 year.</p> <p>A-SOF-PAAM-1402 SemiProbe PILOT AutoAlign Module (PAAM). For SemiProbe semiautomatic and fully automatic probing systems. Hardware and software to enable automatic 2-point alignment of the wafer to the prober stage. Alignment is completed with a single button touch or command line instruction. Requires SemiProbe PILOT Navigator Module (PNM) core software and Analog . Ensures repeatable wafer alignment. Eliminates manual alignment errors.</p> <p>A-ACC-MSTD-21007 Keyboard, Mouse and Monitor Stand. For use with SemiProbe rolltop dark box or vibration isolation table (VIT). Monitor stand will hold 1 or 2 monitors.</p>
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		<p>Monitor and keyboard supports are adjustable in height. Allows user to "tilt" the monitors both inward for viewing. Monitors swing in and out to positioning. Bolted to the frame of the vibration isolation table. (VIT) to isolate them from the probe system.</p> <p>A-MAN-MA-9000-80-M -C Complete MA-9000 Manipulator Kit. Includes manipulator body, magnetic base, adjustable probe arm faceplate and coaxial probe arm. Intended for precise probing and instrumentation for semiconductor and general scientific applications. 3-axis motion (X,Y & Z) with 13 mm (>0.500") movement on each axis. Motion controlled by three 80 TPI in-line adjustment screws. Allows probing of a device or line < 5 um. Rigid enough to handle both DC and HF probe arms, probes and cables. Height: 92 mm (about 3.62"). Travel: X, Y, Z axis = 13 mm (>0.500"). Dimensions: (L,W,H) 95 x 38 x 92 mm (3.74" x 1.50" x 3.62") - manipulator with magnetic base. Resolution: 80 TPI. Rear thumbscrew controls for X & Y movement. 1 M (3') coaxial cable terminated with a BNC coaxial male connector.</p> <p>A-ARM-SPC-TAL-LV-91 01 Triaxial Probe Arm for SemiProbe Manipulator - Long Version Material: plated brass Cable length: 47" (1194 mm) Cable type: Triaxial Connector: BNC - Triax Arm Reach: 14 cm (140 mm) Needle holder: 3 position collette (0, 30, 45 degree needle angle)</p> <p>A-ARM-HF-STD-WE-92 52 Planarity adjustable West/East HF long reach probe arm. Accommodates a variety of HF probes, differential</p>
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		<p>probes, and multi-contact wedges. Compatible with GGB, Rosenberger, Formfactor, MPI and others. Probes ordered separately. Planarity adjustment located near the top of probe arm.</p> <p>A-ARM-HF-STD-NS-925 3 Planarity adjustable North/South HF long reach Probe Arm HF arm will accomodate a variety of HF probes Accommodates differential probes Accommodates multi-contact wedges manufactured by GGB, Rosenberger, Formfactor, MPI and others Probes ordered separately Planarity adjustment is located near the top of the probe arm.</p> <p>A-ARM-FO-ADJ-9005 Description: SemiProbe Fiber Optic Array Holder Mounts on High Frequency (HF) arm Allows user to mount fiber optic to probe arm Fiber holder movable in X, Y, Z with roll and tilt Fiber locks into position after desired location</p> <p>A-ARM-HV-TRIAX-3KV-0002 High Voltage, 3 KV, Triaxial High Voltage Probe Arm for Agilent B1505A Includes HV probe arm and triaxial cable. Cable is 5' (1.5 m) and terminated with a triaxial BNC connector. HV probe tips not included, must be ordered separately.</p> <p>A-DC-HV-10KV-30-930 2 Tungsten Probe Tips 30 um radius. 42 mm in length. 25 probes per box. Suitable for low and high voltage applications (up to 10 KV). 30 um radius (60 um diameter).</p> <p>A-PCH-45-18004</p>
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		<p>4.5" Probe Card Holder (PCH) Assembly for PS4L and LA Probe Systems. Includes probe card theta adjustment. Theta adjustment positionable in 3 areas. PCH theta adjustment removable for probe clearance. Handles probe cards up to 4.5" (114 mm) wide and over 200 mm (12") long. Connector rail kit included.</p> <p>A-ACC-DBR2-WOB-200 -001 Dark Box without base - 200 mm Dark Box enclosure without base for mounting on a vibration isolation table (VIT) Perimeter structure added and mounted on brackets attached to VIT frame Mechanically isolated from the probe system For 200 mm probing and inspection systems and smaller Probe system is placed on the legs of the VIT frame Folding front door opens vertically and locks into place Rear removable door panel for easy access Interior clearance allows for options like laser cutter, emission microscope, etc Cutout for test equipment feed thru panels on each side One panel supplied with connectors, other panel blank Vacuum switch panel with individual toggle switches for chuck vacuum zones Customer to specify interconnect/feedthru panel type System ships with two blank panels if interconnect panel not purchased Accessories can be added separately</p> <p>A-ACC-DB-Light-ROW-0 01 Dark Box lighting system for setup High Brightness light inside of dark box Light can be turned on/off from outside</p> <p>A-ACC-DB-CRKR-0002 Cable Routing Kit Rack - Dark Box Purpose: Route cables from dark box and external accessories. Compatibility: Dark box and external accessories (thermal chuck, power supplies, control electronics, illuminator, cameras, optics, monitors, PC, mouse, etc.)</p>
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		<p>Mounting: Mounts to vibration isolation table frame. Hardware: Includes all mounting hardware.</p> <p>A-ACC-HVHC-IP-3KVKE Y-PU-0005 High Voltage/High Current Interface Kit Dark Box or Light Curtain compatibility Purdue University Custom Design Bulkhead feedthrough accommodation Keysight/Keithley safety interlock compatibility Adaptable interface kits for connector changes Measurements: Coax, triax, kelvin, high voltage, high current Interconnect Panel (IP) included IP Feedthroughs: Standard Coax (4), Standard Triax (4), 3KV Triaxial (3) Rubberized boot for cable passthrough Blank connector openings provided Keysight parametric analyzer safety connector included Safety interconnect cable</p> <p>Installation and Training Installation and Training at customer facility (International - Bangladesh - Includes travel, lodging, meals and two (2) days of on-site work for one (1) SemiProbe Field Service Engineer (FSE) - Training can include up to three (3) people</p> <p>Shipping Shipping Charges - FOB Destination - Bangladesh</p>
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4. Item Name: Semiconductor Device Parameter Analyzer

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Current versus Voltage (IV) Measurement: Ranges of 0.1 fA - 1 A and 0.5 μV - 200 V. IV Measurement Type: Spot, sweep, and time sampling measurements. Minimum Sampling Rate: 100 μs for time sampling</p>

		<p>measurements.</p> <p>Pulsed Measurement Capability: Minimum pulse widths of 50 μs (MCSMU) or 500 μs (HPSMU, MPSMU, HRSMU).</p> <p>Current Resolution: 0.1 fA with ASU, MPSMU, or HRSMU.</p> <p>Analog-to-Digital Converters: High-resolution ADC or high-speed ADC for each SMU type.</p> <p>Capacitance Measurement: Supports CV, C-t, and C-f measurements.</p> <p>Capacitance Frequency Range: 1 kHz to 5 MHz.</p> <p>QS-CV Measurement: Quasi-Static Capacitance-Voltage with leakage current compensation.</p> <p>IV/CV Switching: Automated switching with SCUU, GSWU, or ASUS.</p> <p>Pulsed IV/Fast IV/Transient IV: High-speed and high-sensitivity measurement capability.</p> <p>Waveform Generation: Arbitrary waveform generation with 10 ns programmable resolution.</p> <p>Simultaneous Measurement: High-speed voltage/current measurement (200 MSa/s, 5 ns sampling rate).</p> <p>Pulse Generation Voltage: Up to ± 40 V voltage pulsing.</p> <p>Pulse Generation Capability: Single and two-level pulsing capability.</p> <p>Display: 15-inch touch screen.</p> <p>Measurement Modules: Configurable and upgradable with 10 slots.</p> <p>Interfaces: GPIB, USB, LAN, and VGA video output.</p> <p>Software: Required software compatible with the device.</p> <p>Operating System: Embedded Windows 10 or PC based operation.</p> <p>Operation: Intuitive GUI with keyboard, mouse, and touch screen operation.</p> <p>Application Tests: Furnished hundreds of ready-to-use application tests.</p> <p>Test Modes: Classic test mode for full instrument capability access.</p> <p>Data Analysis: Graphical display and analysis capabilities.</p> <p>Database: Individualized built-in database (workspace).</p> <p>Curve Tracer Mode: Interactive real-time device characterization.</p> <p>Oscilloscope View: Pulsed voltage and current waveform viewing (MCSMU).</p> <p>Test Sequencing: Quick test mode supports sequencing without programming.</p>
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		<p>Switching Matrices Control: GUI-based control</p> <p>Remote Control: Remote control function via LAN interface.</p> <p>Data Protection: Data backup and protection features for shared usage.</p> <p>Software Installation: Installable on multiple PCs.</p>
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5. Item Name: High Power Semiconductor Device Testing System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Parameters: Measures Ron, BV, Leakage, Vth, Vsat.</p> <p>Capacitance Measurement: Measures Ciss, Coss, Crss, Cies, Coes, Cres, Rg at high bias.</p> <p>Qg Curve: Measures for Nch MOSFETs and IGBTs.</p> <p>Power Loss: Measures conduction, driving, and switching.</p> <p>Software: Required software compatible with the device.</p> <p>Datasheet Generation: Quick and automatic generation.</p> <p>Characterization: Supports quick evaluations of data sheet parameters.</p> <p>Voltage Range: 3kV.</p> <p>Current Range: 1500A.</p> <p>Thermal Test Range: -50 to +250 °C.</p> <p>Pulsing: Fast pulsing capability.</p> <p>Current Measurement: subnA level current measurement capability.</p> <p>Switching Circuitry: Integrated switching circuitry within test fixture.</p> <p>Automation: Supports thermal characterization.</p> <p>Temperature (Specification Conditions): 23 ±5 °C.</p> <p>Humidity (Specification Conditions): 20 to 70%, No condensation.</p> <p>Warm-up: Self-calibration after 40-minute warm-up.</p> <p>Temperature Stability: Ambient temperature changes less than ±1 °C after self-calibration.</p> <p>Calibration Period: 1 year.</p> <p>SMU Integration Time: 10 PLC (1 nA to 1 A range, voltage range), 200 µs (20 A range).</p> <p>ADC Averaging: 128 samples per 1 PLC.</p> <p>SMU Filter: ON (for MPSMU).</p> <p>Current Accuracy: Drain output current accuracy guaranteed after 20 seconds.</p>

		<p>Operating Temperature: +5 to +40 °C.</p> <p>Operating Humidity: 20 to 70%, No condensation.</p> <p>Thermo Stream Temperature (Air > +20): +20 to +30 °C.</p> <p>Thermo Stream Humidity (Air > +20): 20% to 70%, No condensation.</p> <p>Thermo Stream Temperature (Air < +20): +20 to +30 °C.</p> <p>Thermo Stream Humidity (Air < +20): 20 to 50%, No condensation.</p> <p>Thermal Plate Temperature: +5 to +30 °C.</p> <p>Thermal Plate Humidity: 20 to 70%, No condensation.</p>
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6. Item Name: Double Pulse Test (DPT) Set Up for Semiconductor Device

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Measurement Capabilities: Static and dynamic measurements for SiC and GaN WBG devices.</p> <p>DPT Technique: Employs double pulse test technique.</p> <p>Voltage Range: Operates at voltages greater than 1000V.</p> <p>Current Range: Operates at currents greater than 100A.</p> <p>High-Frequency Testing: Supports high-frequency testing in the gigahertz range.</p> <p>Low Leakage Measurement: Measures low leakage in the femto-ampere range.</p> <p>Pulsed Power: Provides pulsed power up to 1500 A with 10 µs resolution.</p> <p>Measurement Techniques: Includes probe compensation, gain/offset adjustment, de-skewing, and common-mode noise rejection.</p> <p>Calibration: Semi-automated calibration routine for system gain and offset error correction.</p> <p>Safety Features: Ensures user safety with high voltage and current levels.</p> <p>Standards Compliance: Compliant with JEDEC standards.</p>

7. Item Name: DC Power Supply: 800V & 4A, 1kW Power

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder

3	Main Features	DC Power Supply: 800V & 4A, 1kW Power Autoranging System DC Power Supplies: 5, 10, and 15 kW autoranging Programmable DC Power: Single-output for ATE applications Output Characteristics: Wide range of voltage and current combinations at full power Stable Output Power: Built-in voltage and current measurements Output Range: 80 to 1500 V and 20 to 510 A I/O Interfaces: Multiple standard I/O interfaces Design: Compact 3U design Parallel Units: Create one power supply with > 100 kW Control: Built-in primary/secondary control Front-Panel Operation: Complete access via menu system Protection: Over-temperature, over-current, and over-voltage System Connections: GPIB, Ethernet/LAN, USB 2.0, and analog interfaces Compliance: LXI Core specification compliant Remote Access: Built-in Web server Integration: IVI-COM drivers, SCPI Parallel Operation: Connect up to ten identical units Programming: Analog voltage signal from 0 to 5 V or 0 to 10 V AC Input: 208 VAC or 400 VAC inputs
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8. Item Name:**DC Power Supply: 30V & 100A, 1kW Power**

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Power: 3300 W Output Voltage: 0 to 30 V. Output Current: 0 to 110 A. Input Voltage: 208 V - 400 V. Interfaces: LAN, USB, GPIB. Protective Devices: OVP, OCP, OTP, PFP, UVL. Ripple Current: 300 mArms. Number of Outputs: 1. Power Factor: 0.99 / 0.95. DC Output: DC Source. Additional Functions: Webserver Sense.

		Dimensions: 432.8 x 422.8 x 88 mm. Weight: 13 kg. Warranty: 1 years.
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9. Item Name: Vector Network Analyzer for RF characterization (43.5 GHz)

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	No. of Ports: 2 or higher Maximum Frequency: 50 GHz Minimum Frequency: 900 kHz Type: Benchtop Dynamic Range: 124 dB Network Analyzer Series: PNA-X Most Advanced and Flexible Harmonics: -60 dBc

10. Item Name:**Precision Source Measure Units (SMU)/ Resistivity measurement**

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Product Category: Source Measure Units - SMUs Source and measurement resolution: Down to 10 fA and 100 nV Measurement range: ± 210 V, ± 3 A (DC), ± 10.5 A (pulsed) Covers wide range of components. Voltage Range: 210 V Current Rating: 3 A Capacitance Range: 50 μ F Accuracy: 0.015 % AC Supply Voltage: 90 V to 264 V GUI: User-friendly front panel With 4.3 inch color LCD display Digitizing capability: 10 microsecond for capturing fast transients. PC-based control software: For remote operation and automation. SCPI commands: Supports conventional and default SCPI commands for code compatibility. Form factor: Small with USB2.0, LAN, GPIB and digital I/O interfaces for easy integration. Width - mm: 260 mm

		Height - mm: 180 mm Length - mm: 480 mm
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11. Item Name:**High Bandwidth Digital Real-Time Oscilloscope (40 GHz)**

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Bandwidth: 70 GHz minimum Channels: 4 full bandwidth channels ADC Resolution: 10 bit Sample Rate: 256 GSa/s on all channels Memory: Up to 2 Gpts Bandwidth Upgrade: Upgradable to 110 GHz Calibration: Optional on-site self-calibration module Clock Recovery: High-speed SDA and Clock Recovery included User Functions: User Defined functions included Connectors: 1 mm connector inputs

12. Item Name: Highly Accelerated Stress Test (HAST) Chamber

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Temperature Range: 105°C to 142°C Humidity Range: 75 to 100%RH Interior Dimensions: 11.5" x 11.6" (diameter x depth) Exterior Dimensions: 25" x 33" x 58" (W x D x H) (420 lb.) Power Supply: 208V (±5% w/grounded neutral) 1Ø 60Hz, 15 Service Amps (12.5 FLA) Water Supply: Purified water for humidity & gravity drain Humidity Control: Unsaturated or saturated Humidity System: Multi-mode M System (wet bulb/dry bulb) Controller: Touch-screen with temperature, humidity, and count-down display (except 431M) Interface: Ethernet Language: English Specimen Power Terminals: 12, rated at AC/DC 125V, 1 Amp

		Water Tank: 10 liter humidity water supply Water Fill: Automatic fill Elevation: Advise if above 3,200 feet Shelves: Two stainless steel Mobility: Casters Door Lock: Push button Storage: Bottom storage space Safety: Overheat protector, Over pressure protectors, Door lock safety mechanism, Contact relay for external alarm, Specimen power control terminal Standards Compliance: EIA/JEDEC Test Method A110 and 102C Warranty: 1 year
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13. Item Name:**Tabletop Atomic Force Microscope (AFM) with 100 X 100 X 17 Scanner**

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	Scanner Specifications: Scanner Type: 100 X 100 X 17 XY Resolution: 0.010 nm XY Linearity: <0.1% Z Resolution: 0.003 nm Z Linearity: <0.1% XY Range: 100 µm XY Linearity Performance: <1% XY Resolution Closed Loop: <6 nm XY Resolution Open Loop: <1 nm Z Range: 17 µm Z Linearity Open Loop: <5% Z Linearity Closed Loop: <1% Z Sensor Noise: 1 nm Z Feedback Noise: <0.15 nm Actuator Type: Piezo Design: Modified Tripod XY Sensor Type: Strain Gauge Z Sensor Type: Strain Gauge Electronic Control Specifications: XY Scan: 2 X 28-bits XY Linearization Control: 2 X 24-bits Z Axis Control: Analog Input Signal Bandwidth: 5 Mhz

		<p> Z axis Signal Capture: 20 bits Phase Signal Capture: 2 X 16 bits L-R Signal Capture: 2 X 16 bits Amplitude Signal Capture: 2 X 16 bits Z Error Signal Capture: 2 X 16 bits Main Controller MPU: 80 Mz/105 DMIPS, 32 Bits (5-stage pipeline, Harvard architecture) Excitation/Modulation: Analog PLL, 0-800 Khz Communication: USB 2.0 </p> <p> Optional Electronics Specifications: User Input Signal: 32 X 18 bits User Output: 32 X 18 bits User Monitor: 48 Lines, Digital IO Optional Controller MPU: 80 Mz/105 DMIPS, 32 Bits (5-stage pipeline, Harvard architecture) </p> <p> Software: Environment: LabVIEW or equivalent Operating System: Windows Image Acquisition: Real Time Display (2 of 8 channels) Control Parameters: PID, Setpoint, Range, Scan Rate - Yes Image Rotate: 0 and 90 degrees Laser Align: Yes Vibrating Freq. Display: Yes Force Distance: Yes Tip Approach: Yes Oscilloscope: Yes Image Store Format: Industry Standard Image Pixels: 16 X 16 to 1024 X 1024 H.V. Gain Control: XY and Z Real Time Display: Line Level, Light Shaded, Grey Color Pallet Calibration: System Window Probe Center: Yes Field of view: 2 x 2 mm to 300 x 300 µm Resolution: 20 µm to 2 µm Working Distance: 114 mm Magnification: 45X to 400X </p> <p> Top View Optic: Research Grade 45-400x, Mechanical 7:1 Zoom ratio, 5 MegaPixel CMOS Camera, 114 mm working distance, Coaxial LED illumination </p>
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Lot-3: Supply, Installation and Commissioning of Fabrication (FAB) Equipment for Semiconductor Lab at BUET

Note:

The end user of all supplied goods will be an academic institution. The equipment will be utilized strictly for academic research purposes. Therefore, bidders are requested to apply the academic cost waiver when pricing their offers.

1. Item Name: 1000 Sq. Ft ISO8 Class 100,000 Modular Cleanroom

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Corner Posts: 4, 2x2, Powder-Coated Steel</p> <p>Frame Materials: 35 ea. 4' Frame materials and connector bars 2x2, Powder-Coated Steel</p> <p>Ceiling Grid: 1,000 Sq. Ft. Power T-Ceiling Grid</p> <p>Cleanroom Lights: 22, 2x4, 220V Universal Ballast</p> <p>Ceiling Tile: 125 Vinyl Covered Cleanroom Ceiling Tile</p> <p>HEPA Filters: 8 Mac10 LEAC (low energy) HEPA filter 2x4 99.99% on .3 microns</p> <p>Wall Panels: 35 Vinyl Wall Panels 144"x 48" 20 mil thick vinyl</p> <p>Strip Curtain: 1 144"x54" 40 mil Strip curtain (door)</p> <p>Electrical Whips: 30 EZ snap together electrical whips for single point connection</p> <p>Gown Area: 1 8'x8'x12' Internal Gown area</p> <p>Support Frame: 1 1ga 2"x2" cold rolled steel, 2" x 2" welded gussets.</p> <p>Perimeter Ceiling Support Frame: 2"x 2" 11ga cold-rolled steel with insert tubes.</p> <p>Ceiling Construction: Power Tee grid, ISO Class 3 to ISO Class 8 compliant.</p> <p>Wall Material: 54" wide, 20 mil thick clear vinyl with Dual-Lok system.</p> <p>Frame Finish: White powder coated steel.</p> <p>Installation: On-site installation</p>

2. Item Name: Photolithography - Mask Aligner and UV LED Light Source Exposure System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	A 365 nm UV LED, 6'' diameter Uniform UV LED Light Source Exposure System

		<p>Collimation lens with NUV anti-reflective coating</p> <p>Built in power supply for Constant Intensity or Constant Power</p> <p>One feedback probe</p> <p>Built in exposure timer</p> <p>Dose Control</p> <p>Collimation lens with NUV antireflective coating</p> <p>One substrate holder for 4'' substrates</p> <p>One additional substrate holder for 6'' substrates</p> <p>One mask insert for 5'' x 5'' masks</p> <p>One additional mask insert for 7'' x 7'' masks</p> <p>Single Field microscope with three turrets (5X, 10X, and 20X) and 10X eye pieces</p> <p>Packaging</p>
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3. Item Name: Reactive Ion Etching System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Reactive Ion Etching System: RIE-10NR</p> <p>Description: High precision plasma reactive ion etching system for anisotropic etching of films.</p> <p>Chamber: Aluminum, 400mm(W)x400mm(D)x170mm(H), inner diameter 340 mm.</p> <p>Viewports: 37 mm diameter, 2 (Front, Right-hand side).</p> <p>Chamber Lid: Air-operated, automatic opening/closing.</p> <p>Evacuation Design: Symmetrical with four vacuum ports.</p> <p>Electrode Structure: Parallel plate, cathode coupling.</p> <p>Electrode Distance: 55mm.</p> <p>Upper Electrode: Aluminum, 240mm diameter.</p> <p>Lower Electrode: Aluminum, 240mm diameter, with ground shield, Quartz Stage Cover (250mm, with one spare), 8inch wafer recess.</p> <p>Substrate Cooling: Water cooling (with tap water).</p> <p>Gas Inlet: Shower type manifold, integrated in upper electrode.</p> <p>RF Power: 13.56MHz, Max.300W, 30W~270W standard range, crystal oscillation, all solid state.</p> <p>Matching Unit: Full automatic matching.</p> <p>Power Meter: Digital display, reads forward and reflected power.</p> <p>Gas Inlet Lines: 2 mass flow controllers (standard), Max.6 MFC gas lines total, Standard: O2, CF4.</p>

		<p>Gas Inlet Valve: Bellows seal stop valve (air operated), SUS 316L BA tubing, 1/8" and 1/4" inside, 1/4" VCR fittings.</p> <p>Vacuum Gauge: Diaphragm gauge (2.66×10^2 to 2.66×10^{-2} Pa), isolation valve full range gauge (1×10^5 to 5×10^{-7} Pa).</p> <p>Vacuum Line: Turbo molecular pump (200 L/sec) TG-203RA, Osaka Vacuum, backed by dry pump (500 L/min) NeoDry30E, Kashiya.</p> <p>Evacuation Valve: 4" diameter automatic pressure controlled gate valve, motorized, variable type, air-operated.</p> <p>System Control: Touch panel (English), automatic operation via PLC, manual operation possible.</p> <p>Recipe Storage: 100 recipes.</p> <p>Sequential Recipe: 10 steps (standard).</p> <p>Logging Function: Sub-notebook PC included (Option).</p> <p>Remote Support: Included for troubleshooting via internet.</p>
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4. Item Name: Physical Vapor Deposition (Sputter) - Thin Film Deposition System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Process Chamber Volume: 58 liters</p> <p>Process Chamber Geometry: Horizontally Oriented, Cylindrical 304L Stainless Steel Chamber Body: 15.13" Diameter x 16.25" Overall Length (OAL)</p> <p>Process Chamber Construction: 304L Stainless Steel with 6061 Aluminum. Pendulum Door Assembly</p> <p>Cabinet Construction: Carbon Steel, Fully Enclosed Instrument Rack, Open Chamber Area, Gray Powder Coat Finish</p> <p>Deposition Sources: Up to (3) 2" or 3" Torus Magnetron Sputtering Cathodes</p> <p>Deposition Sources: Up to (4) 2" Thermal Evaporation Sources</p> <p>Deposition Sources: Up to (4) LTE Organic Material Evaporation Sources</p> <p>Deposition Sources: Combination Baseplate of (2) 2" Thermal & (2) LTE Sources</p> <p>Deposition Orientation: Sputter Up, Evaporation Up</p> <p>Substrate Size (max): 100mm x 100mm, 150mm Dia</p>

		<p>Substrate Heating: Up to 800°C, with a 1" Static Platen; Up to 350°C, Rotating 100mm x 100mm or 150mm Diameter Platen</p> <p>Standard Vacuum Pumping: 260 l/sec Turbo Pump</p> <p>Gauging: Wide Range Vacuum Gauge</p> <p>Process Gas: Up to 2 Fujikin FCST1000F Mass Flow Controllers</p> <p>System Control: PC-Based HMI, with Optional Recipe Control and Datalogging</p> <p>Required Power (typical, based on options): 208VAC, Single Phase, 50/60 Hz; Optional 380VAC, Single Phase, 50/60 Hz</p> <p>EU directives: Low Voltage Directive (LVD) 2014/35/EU / Electromagnetic Compatibility (EMC) Directive 2014/30/EU : CSA and NRTL</p> <p>Overall Dimensions (approx): Door Closed: 34" (864mm) wide x 32" (813mm) deep x 75" (1911mm) high</p> <p>Overall Dimensions (approx): Door Open: 48" (1207mm) wide x 32" (813mm) deep x 75" (1911mm) high</p> <p>Weight (approx): 650 lbs (295 kg)</p> <p>Warranty: 1 Year</p>
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5. Item Name: Atomic Layer Deposition (ALD) System

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Base System: Atomic Layer Deposition (ALD) base system with two precursor ports and two 50mL precursor cylinders</p> <p>Heating Jacket: Closed loop, for precursors.</p> <p>Reaction Chamber Size: 200mm.</p> <p>Vapor Trap: Integrated, heated.</p> <p>Pump: 14.6 CFM rotary vane (substitutable for 20, 50, or 58.9 CFM dry pump).</p> <p>Computer: User computer with Windows 10 or higher OS.</p> <p>Services: ALD recipe database access, precursor advice, science team support, software maintenance</p> <p>Additional Precursor Lines: Up to 4 additional.</p> <p>Maximum Precursor Ports: 6.</p>

		Additional Heater Jackets: Included with additional precursor lines. Cylinders with additional precursor lines: 50mL.
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6. Item Name: Plasma enhanced chemical vapor deposition

SN	Feature	Requirement of Purchaser
1	Brand	To be mentioned by the bidder
2	Country of Origin	To be mentioned by the bidder
3	Main Features	<p>Single Zone 1200°C Split Tube furnace</p> <p>Max 1200°C, 1100°C continuous heating. Programmable precision digital temperature controllers with 30 segments. Heating Zones 880 mm, Quartz Tube Size 130 ODx122 IDx2000L mm. Input power 208-240V AC, single phase at max 7KW. Vacuum sealed flanges included for immediate use.</p> <p>Plasma RF Power Supply</p> <p>Output Power: 5-300W adjustable with $\pm 1\%$ stability RF frequency: 13.56 MHz $\pm 0.005\%$ stability Reflection Power: 200W max Matching: Automatic RF Output Port: 50 Ω, N-type, female Noise: <50 dB Cooling: Air cooling Power: 208-240VAC, 50/60Hz</p> <p>Pressing Tube</p> <p>Quartz Tube: 130 ODx122 IDx2000L mm (5"x 79"). included SS vacuum flange: 5" with valve and K25Vacuum port Pressure Gauge: Anti-corrosive, installed on flange Pressure Range: 3.8×10^{-5} to 1125 Torr Gauge Type: Anti-corrosive, gas-type independent Pressure Detection: High accuracy and reproducibility at atmosphere Atmospheric Detection: Fast, eliminates waiting time Battery Pack: 24V 7Ah for 30-40 hrs battery life per</p>

		<p>charge</p> <p>Vacuum Pump and valve</p> <p>EQ-FYP-Pump is installed inside the heavy-duty mobile cart.</p> <p>One Cold Trap for Recovering Condensables is included.</p> <p>KF25 adapter and stainless steel pipe are connected between the pump and tube flange with precision ball valve for user's plug and immediately use.</p> <p>10E-2 Torr vacuum can be achieved inside the processing tube.</p> <p>Temperature Controller</p> <p>MET certified 30 programmable segments for precise control.</p> <p>Built-in PID Auto-Tune function with protection.</p> <p>Over-temperature protection and alarm.</p> <p>+/- 1 °C temperature accuracy.</p> <p>RS485 Communications Port.</p> <p>Laptop, software & WiFi Control</p> <p>Brand new laptop with Microsoft Window 10 and required softwares</p> <p>Labview Based Temperature Control System (EQ-MTS01) enables a user to edit temperature profile, manage heat-treatment recipe, record and plot data.</p> <p>A wireless remote control provides up to 300 meters operating range.</p> <p>Dimensions</p> <p>Furnace: 1100 X 450 x 670 mm</p> <p>Net weight: 220 lbs</p> <p>Warranty 1 Year</p>
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4. Drawings

This bidding document includes *the following* drawings : No

5. Inspections and Tests

The inspection and test, each item indicated in the Schedule of requirement, shall be performed to check whether the supplied item(s) are in conformity with the contract provisions and conform to the required technical specifications stipulated in the contract.

If the items fail to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective parts of each to the satisfaction of the purchaser/consignee.

The Purchaser's right to inspect, test and where appropriate reject the Goods after delivery, shall in no way be limited or waived by the reason of Goods having previously been inspected, tested or passed by the Purchaser or its representative prior the Goods shipment.

The Inspections and tests shall be conducted at:

Enhancing Digital Government and Economy (EDGE) Project
Bangladesh University of Engineering and Technology (BUET)
Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205,
Bangladesh

PART 3 – Contract

Section VIII - General Conditions of Contract

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Section VIII. General Conditions of Contract

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

- (a) “Bank” means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).
- (b) “Contract” means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein.
- (c) “Contract Documents” means the documents listed in the Contract Agreement, including any amendments thereto.
- (d) “Contract Price” means the price payable to the Supplier as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.
- (e) “Day” means calendar day.
- (f) “Completion” means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.
- (g) “GCC” means the General Conditions of Contract.
- (h) “Goods” means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.
- (i) “Purchaser’s Country” is the country specified **in the Special Conditions of Contract (SCC)**.
- (j) “Purchaser” means the entity purchasing the Goods and Related Services, as **specified in the SCC**.
- (k) “Related Services” means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other such obligations of the Supplier under the Contract.
- (l) “SCC” means the Special Conditions of Contract.
- (m) “Subcontractor” means any person, private or government entity, or a combination of the above, to whom any part of

		the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier.
	(n)	“Supplier” means the person, private or government entity, or a combination of the above, whose Bid to perform the Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.
	(o)	“The Project Site,” where applicable, means the place named in the SCC.
2. Contract Documents	2.1	Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
3. Fraud and Corruption	3.1	The Bank requires compliance with the Bank’s Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework, as set forth in Appendix 1 to the GCC.
	3.2	The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.
4. Interpretation	4.1	If the context so requires it, singular means plural and vice versa.
	4.2	Incoterms
	(a)	Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms specified in the SCC.
	(b)	The terms EXW, CIP, FCA, CFR and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms specified in the SCC and published by the International Chamber of Commerce in Paris, France.
	4.3	Entire Agreement
		The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.

4.4 Amendment

No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.

4.5 Nonwaiver

- (a) Subject to GCC Sub-Clause 4.5(b) below, no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.
- (b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.6 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

5. Language

- 5.1 The Contract as well as all correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser, shall be written in the language specified in the SCC. Supporting documents and printed literature that are part of the Contract may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 5.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation, for documents provided by the Supplier.

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- 6. Joint Venture, Consortium or Association**
- 6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.
- 7. Eligibility**
- 7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 8. Notices**
- 8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address **specified in the SCC**. The term “in writing” means communicated in written form with proof of receipt.
- 8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.
- 9. Governing Law**
- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser’s Country, unless otherwise **specified in the SCC**.
- 9.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in the Purchaser’s Country when:
- (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

**10. Settlement of
Disputes**

- 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser 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. 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 finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC**.
- 10.3 Notwithstanding any reference to arbitration herein,
- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.

**11. Inspections and
Audit by the
Bank**

- 11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs.
- 11.2 Pursuant to paragraph 2.2 e. of Appendix 1 to the General Conditions the Supplier shall permit and shall cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Supplier's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 3.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract

termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).

- 12. Scope of Supply** 12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
- 13. Delivery and Documents** 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are **specified in the SCC**.
- 14. Supplier's Responsibilities**
- 14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
- 14.2 The Supplier, including its Subcontractors, shall not employ or engage forced labor or persons subject to trafficking, as described in GCC Sub-Clauses 14.3 and 14.4.
- 14.3 Forced labor consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.
- 14.4 Trafficking in persons is defined as the recruitment, transportation, transfer, harbouring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.
- 14.5 The Supplier, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).
- 14.6 The Supplier, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.
- 14.7 Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:

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- (a) with exposure to physical, psychological or sexual abuse;
 - (b) underground, underwater, working at heights or in confined spaces;
 - (c) with dangerous machinery, equipment or tools, or involving handling or transport of heavy loads;
 - (d) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or
 - (e) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.
- 14.8 The Supplier shall comply, and shall require its Subcontractors if any to comply, with all applicable health and safety regulations, laws, guidelines, and any other requirement stated in the Technical Specifications.
- 14.9 **Pursuant to the SCC**, the Supplier, including its Subcontractors/ suppliers/ manufacturers shall take all technical and organizational measures necessary to protect the information technology systems and data used in connection with the Contract. Without limiting the foregoing, the Supplier, including its Subcontractors/ suppliers/ manufacturers, shall use all reasonable efforts to establish, maintain, implement and comply with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or data used in connection with the Contract.
- 14.10 The Supplier shall comply with additional obligations as **specified in the SCC**.
- 15. Contract Price**
- 15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments **authorized in the SCC**.
- 16. Terms of Payment**
- 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as **specified in the SCC**.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as

appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.

- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the Bid price is expressed.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period **set forth in the SCC**, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate **shown in the SCC**, for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.

17. Taxes and Duties

- 17.1 For goods manufactured outside the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the Purchaser's Country.
- 17.2 For goods Manufactured within the Purchaser's Country, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- 17.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in the Purchaser's Country, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

18. Performance Security

- 18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount **specified in the SCC**.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency (ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the **Purchaser in the SCC**, or in another format acceptable to the Purchaser.

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- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless **specified otherwise in the SCC**.

19. Copyright

- 19.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.

20. Confidential Information

- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.
- 20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:
- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
 - (b) now or hereafter enters the public domain through no fault of that party;
 - (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or

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- (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
- 20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.
- 21. Subcontracting**
- 21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Notification by the Supplier, for addition of any Subcontractor not named in the Contract, shall also include the Subcontractor's declaration in accordance with Appendix 2 to the GCC- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration. Such notification, in the original Bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.
- 21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.
- 22. Specifications and Standards**
- 22.1 Technical Specifications and Drawings
- (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.
- (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

- 23.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 23.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, **specified in the SCC**, and in any other instructions ordered by the Purchaser.

24. Insurance

- 24.1 Unless otherwise **specified in the SCC**, the Goods supplied under the Contract shall be fully insured—in a freely convertible currency from an eligible country—against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery, in accordance with the applicable Incoterms or in the manner specified in the **SCC**.

25. Transportation and Incidental Services

- 25.1 Unless otherwise **specified in the SCC**, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
- 25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, **specified in SCC**:
- (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 Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

-
- 25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services
- 26. Inspections and Tests**
- 26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are **specified in the SCC**.
- 26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as **specified in the SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.
- 26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser 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.
- 26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.
- 26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.
- 26.7 The Purchaser 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 Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

26.8 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 Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

27.1 Except as provided under GCC Clause 32, if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery or perform the Related Services within the period specified in the Contract, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage **specified in the SCC** of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage **specified in those SCC**. Once the maximum is reached, the Purchaser may terminate the Contract pursuant to GCC Clause 35.

28. Warranty

28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.

28.3 Unless otherwise **specified in the SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination **indicated in the SCC**, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.

28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall

afford all reasonable opportunity for the Supplier to inspect such defects.

28.5 Upon receipt of such notice, the Supplier shall, within the period **specified in the SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.

28.6 If having been notified, the Supplier fails to remedy the defect within the period **specified in the SCC**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

29.1 The Supplier shall, subject to the Purchaser's compliance with GCC Sub-Clause 29.2, indemnify and hold harmless the Purchaser and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Purchaser may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract by reason of:

- (a) the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; and
- (b) the sale in any country of the products produced by the Goods.

Such indemnity shall not cover any use of the Goods or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, neither any infringement resulting from the use of the Goods or any part thereof, or any products produced thereby in association or combination with any other equipment, plant, or materials not supplied by the Supplier, pursuant to the Contract.

29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct

any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.

29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

29.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of any nature, including attorney's fees and expenses, which the Supplier may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright, or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Purchaser.

30. Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct,

(a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and

(b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the Purchaser with respect to patent infringement

31. Change in Laws and Regulations

31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's Country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract.

Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

- 32. Force Majeure**
- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 32.2 For purposes of this Clause, “Force Majeure” means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.
- 32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser 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 event.
- 33. Change Orders and Contract Amendments**
- 33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:
- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
 - (b) the method of shipment or packing;
 - (c) the place of delivery; and
 - (d) the Related Services to be provided by the Supplier.
- 33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier’s performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier’s receipt of the Purchaser’s change order.

33.3 Prices to be charged by the Supplier for any Related Services that might be needed but which were not included in the Contract shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

33.4 **Value Engineering:** The Supplier may prepare, at its own cost, a value engineering proposal at any time during the performance of the contract. The value engineering proposal shall, at a minimum, include the following;

- (a) the proposed change(s), and a description of the difference to the existing contract requirements;
- (b) a full cost/benefit analysis of the proposed change(s) including a description and estimate of costs (including life cycle costs) the Purchaser may incur in implementing the value engineering proposal; and
- (c) a description of any effect(s) of the change on performance/functionality.

The Purchaser may accept the value engineering proposal if the proposal demonstrates benefits that:

- (a) accelerates the delivery period; or
 - (b) reduces the Contract Price or the life cycle costs to the Purchaser; or
 - (c) improves the quality, efficiency or sustainability of the Goods; or
 - (d) yields any other benefits to the Purchaser,
- without compromising the necessary functions of the Facilities.

If the value engineering proposal is approved by the Purchaser and results in:

- (a) a reduction of the Contract Price; the amount to be paid to the Supplier shall be the percentage specified **in the PCC** of the reduction in the Contract Price; or
- (b) an increase in the Contract Price; but results in a reduction in life cycle costs due to any benefit described in (a) to (d) above, the amount to be paid to the Supplier shall be the full increase in the Contract Price.

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

34. Extensions of Time

- 34.1 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services pursuant to GCC Clause 13, the Supplier shall promptly notify the Purchaser in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Supplier's notice, the Purchaser shall evaluate the situation and may at its discretion extend the Supplier's time for performance, in which case the extension shall be ratified by the parties by amendment of the Contract.
- 34.2 Except in case of Force Majeure, as provided under GCC Clause 32, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages pursuant to GCC Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

- (a) The Purchaser, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the Supplier, may terminate the Contract in whole or in part:
- (i) if the Supplier fails to deliver any or all of the Goods within the period specified in the Contract, or within any extension thereof granted by the Purchaser pursuant to GCC Clause 34;
 - (ii) if the Supplier fails to perform any other obligation under the Contract; or
 - (iii) if the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, as defined in paragraph 2.2 a of the Appendix 1 to the GCC, in competing for or in executing the Contract.
- (b) In the event the Purchaser terminates the Contract in whole or in part, pursuant to GCC Clause 35.1(a), the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes

bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:
 - (i) to have any portion completed and delivered at the Contract terms and prices; and/or
 - (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

- 36.1 Neither the Purchaser nor the Supplier shall assign, in whole or in part, their obligations under this Contract, except with prior written consent of the other party.

**37. Export
Restriction**

- 37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract. Termination of the

Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.

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APPENDIX 1

(Text in this Appendix shall not be modified)

Fraud and Corruption

1. Purpose

1.1 The Bank's Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.

2. Requirements

2.1 The Bank requires that Borrowers (including beneficiaries of Bank financing); bidders (applicants/proposers), consultants, contractors and suppliers; any sub-contractors, sub-consultants, service providers or suppliers; any agents (whether declared or not); and any of their personnel, observe the highest standard of ethics during the procurement process, selection and contract execution of Bank-financed contracts, and refrain from Fraud and Corruption.

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation 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 investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- c. In addition to the legal remedies set out in the relevant Legal Agreement, may take other appropriate actions, including declaring misprocurement, if the Bank determines at any time that representatives of the Borrower or of a recipient of any part of the proceeds of the loan engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices during the procurement process, selection and/or execution of the contract in question, without the Borrower having taken timely and appropriate action satisfactory to the Bank to address such practices when they occur, including by failing to inform the Bank in a timely manner at the time they knew of the practices;
- d. Pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with the Bank's prevailing sanctions policies and procedures, may sanction a firm or individual, either indefinitely or for a stated period of time, including by publicly declaring such firm or individual ineligible (i) to be awarded or otherwise benefit from a Bank-financed contract, financially or in any other manner;¹ (ii) to be a nominated² sub-contractor, consultant, manufacturer or supplier, or service provider of an otherwise eligible firm being awarded a Bank-financed contract; and (iii) to receive the proceeds of any loan made by the Bank or otherwise to participate further in the preparation or implementation of any Bank-financed project;
- e. Requires that a clause be included in bidding/request for proposals documents and in contracts financed by a Bank loan, requiring (i) bidders (applicants/proposers), consultants, contractors, and suppliers, and their sub-contractors, sub-consultants, service providers, suppliers, agents, personnel, permit the Bank to inspect³ all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

¹ For the avoidance of doubt, a sanctioned party's ineligibility to be awarded a contract shall include, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and bidding, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² A nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider (different names are used depending on the particular bidding document) is one which has been: (i) included by the bidder in its pre-qualification application or bid because it brings specific and critical experience and know-how that allow the bidder to meet the qualification requirements for the particular bid; or (ii) appointed by the Borrower.

³ Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Bank or persons appointed by the Bank to address specific matters related to investigations/audits, such as evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copy or electronic format) deemed relevant for the investigation/audit, and making copies thereof as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

APPENDIX 2

Sexual Exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration for Subcontractors*

[The following table shall be filled in by each subcontractor proposed by the Supplier, that was not named in the Contract]

Subcontractor's Name: *[insert full name]*

Date: *[insert day, month, year]*

Contract reference *[insert contract reference]*

Page *[insert page number]* of *[insert total number]* pages

SEA and/or SH Declaration
<p>We:</p> <p><input type="checkbox"/> (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.</p> <p><input type="checkbox"/> (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.</p> <p><input type="checkbox"/> (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.</p>
<p><i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i></p>
<p>Period of disqualification: From: _____ To: _____</p>

Name of the Subcontractor _____

Name of the person duly authorized to sign on behalf of the Subcontractor _____

Title of the person signing on behalf of the Subcontractor _____

Signature of the person named above _____

Date signed _____ day of _____, _____

Countersignature of authorized representative of the Supplier:

Signature: _____

Date signed _____ day of _____, _____

Section IX - Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement and / or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC.

GCC 1.1(i)	The Purchaser's Country is: Bangladesh.
GCC 1.1(j)	The Purchaser is: Bangladesh Computer Council (BCC) Represented by Project Director, Enhancing Digital Government and Economy (EDGE) Project
GCC 1.1 (o)	The Project Site(s)/Final Destination(s) is/are: <i>for each lot</i> Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh
GCC 1.1 (p)	The term SEA/SH where used in the Contract has the following meaning: <ul style="list-style-type: none"> • “Sexual Exploitation and Abuse” “(SEA)” means the following: Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another. Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions. • “Sexual Harassment” “(SH)” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by supplier's personnel with other supplier's, or purchaser's personnel.
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms. If the meaning of any trade term and the rights and obligations of the parties thereunder shall not be as prescribed by Incoterms, they shall be as prescribed by: any other internationally accepted trade terms.
GCC 4.2 (b)	The version edition of Incoterms shall be Incoterms 2020.
GCC 5.1	The language shall be: English

GCC 8.1	<p>For <u>notices</u>, the Purchaser's address shall be:</p> <p>Project Director Enhancing Digital Government and Economy (EDGE) Project Youth Tower (Level 5), 822/2, Rokeya Sarani, Dhaka-1216, Bangladesh Telephone: +88 02 41001721 E-mail: piu.edge@bcc.gov.bd</p>
GCC 9.1	<p>The governing law shall be the law of <i>Bangladesh</i>.</p>
GCC 10.2	<p>The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows:</p> <p>Clause 10.2 (a) shall be retained in the case of a Contract with a foreign Supplier and clause 10.2 (b) shall be retained in the case of a Contract with a national of the Purchaser's Country.</p> <p><u>(a) Contract with foreign Supplier (including a Joint Venture when at least one partner is outside the Purchaser's Country):</u></p> <p>GCC 10.2 (a)—Any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity thereof, shall be settled by arbitration in accordance with the UNCITRAL Arbitration Rules as at present in force.</p> <p><u>(b) Contracts with Supplier national of the Purchaser's Country:</u></p> <p>In the case of a dispute between the Purchaser and a Supplier who is a national of the Purchaser's Country, the dispute shall be referred to adjudication or arbitration in accordance with the laws of the Purchaser's Country.</p>
GCC 13.1	<p>1. Details of Shipping and other Documents to be furnished by the Supplier are: For Goods supplied from abroad as per INCOTERM CIP</p> <p>The Supplier shall provide the Purchaser with shipping and other documents as follows;</p> <ol style="list-style-type: none"> Original plus five (05) copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount; Original plus five (05) copies Airway bill/Bill of Lading; Original plus five (05) copies Insurance certificate; Original plus five (05) copies Manufacturer's or Supplier's warranty certificate,

	<p>e) Original plus five (05) copies Inspection certificate issued by nominated inspection agency (if any);</p> <p>f) Original plus five (05) copies Supplier's factory shipping details;</p> <p>g) Original plus five (05) copies Country of Origin issued by the Chamber of Commerce.</p> <p>The above documents shall be received by the Purchaser at least two weeks before arrival of the Goods at the place of arrival and, if not received, the Supplier will be responsible for any consequent expenses.</p> <p>2. For Goods from within the Purchaser's country as per INCOTERM EXW:</p> <p>For Goods supplied from within Bangladesh, upon delivery of the Goods to the transporter, the Supplier shall notify the purchaser and mail the following documents to the purchaser:</p> <p>a) One original plus five copies of the Supplier's invoice showing Goods' description, quantity, unit price, and total amount;</p> <p>b) Delivery note, railway receipt, or truck receipt;</p> <p>c) Manufacturer's or Supplier's warranty certificate;</p> <p>d) Inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and</p> <p>e) Certificate of country of origin issued by the Chamber of Commerce or equivalent authority in the country of origin in duplicate.</p> <p>The above documents shall be received by the Purchaser before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p>
GCC 14.9	Cyber Security <i>does not apply</i> .
GCC 14.10	Not Applicable..
GCC 15.1	<p>The prices charged for the Goods supplied and the related Services performed <i>shall not</i> be adjustable.</p> <p>If prices are adjustable, the following method shall be used to calculate the price adjustment - <i>Not Applicable</i></p>
GCC 16.1	<p>GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>Payment for Goods supplied from abroad for each lot:</p>

	<p>Payment of foreign currency portion shall be made in (_____) [currency of the Contract Price] in the following manner:</p> <ul style="list-style-type: none"> (i) Advance Payment: Ten (10) percent of the pro-rata Contract Price shall be paid within thirty (30) days of signing of the Contract, and upon submission of claim and a bank guarantee for equivalent amount valid until the Goods are delivered and in the form provided in the bidding document or another form acceptable to the Purchaser. (ii) On Shipment: Forty (40) percent of the pro-rata Contract Price of the Goods shipped shall be paid through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 13. (iii) On Acceptance: Fifty (50) percent of the pro-rata Contract Price of Goods received shall be paid within thirty (30) days of receipt of the Goods upon submission of claim supported by the acceptance certificate issued by the Purchaser. <p>If advance payment is not taken by the supplier, the amount will be paid with Acceptance.</p> <p>Payment of local currency portion shall be made in local currency within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p> <p>Payment for Goods and Services supplied from within the Purchaser's Country for each lot:</p> <p>Payment for Goods and Services supplied from within the Purchaser's Country shall be made in _____ [currency], as follows:</p> <ul style="list-style-type: none"> (i) Advance Payment: Ten (10) percent of the pro-rata Contract Price shall be paid within thirty (30) days of signing of the Contract against a simple receipt and a bank guarantee for the equivalent amount and in the form provided in the bidding document or another form acceptable to the Purchaser. (ii) On Delivery: Forty (40) percent of the pro-rata Contract Price shall be paid on receipt of the Goods and upon submission of the documents specified in GCC Clause 13. (iii) On Acceptance: The remaining Fifty (50) percent of the pro-rata Contract Price shall be paid to the Supplier within thirty (30) days after the date of the acceptance certificate for the respective delivery issued by the Purchaser.
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	If advance payment is not taken by the supplier, the amount will be paid with Acceptance.
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 45 days.</p> <p>The interest rate that shall be applied is :</p> <p>On foreign currency: Secured Overnight Financing Rate (SOFR) + 1%</p> <p>On local currency: Dhaka Inter Bank Offered Rate (DIBOR).</p>
GCC 18.1	<p>A Performance Security <i>shall be required for each lot.</i></p> <p><i>The amount of the Performance Security shall be: Ten (10) percent of the Contract Price.</i></p>
GCC 18.3	<p>If required, the Performance Security shall be in the form of : a Bank Guarantee.</p> <p>If required, the Performance security shall be denominated in <i>the currencies of payment of the Contract, in accordance with their portions of the Contract Price.</i></p>
GCC 18.4	Discharge of the Performance Security shall take place: As mentioned in GCC clause.

GCC 23.2	<p>The packing, marking and documentation within and outside the packages shall be:</p> <p>The goods have to be supplied in CBU condition and are to be securely packed with sea worthy (if anything is, transport by AIR as spare parts, it should be air worthy) packing and clearly marked for safe transit by Sea. The packing/marketing will be done by the suppliers so that the goods will not be affected by sea water & damp weather. All goods will be marked with the following particulars and packed as per following instructions during transportation:</p> <p>A complete packing list indicating the content of each package shall be enclosed in a water proof envelope and shall be secured to the outside of the packing case. In addition, each package shall be marked with indelible ink/paint in bold letters, as follows:</p> <ul style="list-style-type: none"> • Contract Number and date Name and address of Purchaser • Country of origin Gross weight • Net weight • Package numbers and total number of packages • Brief description of the content <p>Upright markings, where appropriate, shall be placed on all four vertical sides of the package. All materials used for packing shall be environmentally neutral.</p> <p>The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. During transit, the packing shall be sufficient to withstand,</p> <p>without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit. In addition, the packing shall comply strictly with special requirements.</p>
GCC 24.1	The insurance coverage shall be as specified in the Incoterms.
GCC 25.1	The Supplier is required under the Contract to transport the Goods duly insured to the specified final destination, and until the commissioning &

	final acceptance of each equipment, and all related costs shall be included in the Contract Price.
GCC 25.2	<p>Incidental services to be provided are:</p> <ul style="list-style-type: none"> (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods; (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods; (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and (e) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
GCC 26.1	<p>The inspections and tests shall be:</p> <p>The inspection and test, each item indicated in the Schedule of requirement, shall be performed to check whether the supplied item(s) are in conformity with the contract provisions and conform to the required technical specifications stipulated in the contract.</p> <p>If the items fail to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective parts of each to the satisfaction of the purchaser/ consignee.</p> <p>The Purchaser's right to inspect, test and where appropriate reject the Goods after delivery, shall in no way be limited or waived by the reason of Goods having previously been inspected, tested or passed by the Purchaser or its representative prior the Goods shipment.</p>
GCC 26.2	<p>The Inspections and tests shall be conducted at: Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh.</p>
GCC 27.1	The liquidated damage shall be: 0.5% per week
GCC 27.1	The maximum amount of liquidated damages shall be: 10%
GCC 28.3	The period of validity of the Warranty shall be one (1) year from the date of commissioning of the Goods by the Purchaser

	For purposes of the Warranty, the place(s) of final destination(s) shall be: Enhancing Digital Government and Economy (EDGE) Project Bangladesh University of Engineering and Technology (BUET) Basement of East Wing, ECE Building, West Palashi Campus, BUET, Dhaka 1205, Bangladesh (
GCC 28.5	The period for repair or replacement shall be: 7 (seven) days for repair /28 (twenty-eight) days for replacement.
GCC 28.6	The period shall be 14(fourteen) days.
GCC 33.4	Not Applicable.

Attachment: Price Adjustment Formula - Not Applicable

If in accordance with GCC 15.1, prices shall be adjustable, the following method shall be used to calculate the price adjustment:

- 15.1 Prices payable to the Supplier, as stated in the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components in accordance with the formula:

$$P_1 = P_0 \left[a + \frac{bL_1}{L_0} + \frac{cM_1}{M_0} \right] - P_0$$

$$a+b+c = 1$$

in which:

- P_1 = adjustment amount payable to the Supplier.
- P_0 = Contract Price (base price).
- a = fixed element representing profits and overheads included in the Contract Price and generally in the range of five (5) to fifteen (15) percent.
- b = estimated percentage of labor component in the Contract Price.
- c = estimated percentage of material component in the Contract Price.
- L_0, L_1 = *labor indices applicable to the appropriate industry in the country of origin on the base date and date for adjustment, respectively.
- M_0, M_1 = *material indices for the major raw material on the base date and date for adjustment, respectively, in the country of origin.

The Bidder shall indicate the source of the indices and the base date indices in its Bid. The coefficients a , b , and c as specified by the Purchaser are as follows:

- $a = [\text{insert value of coefficient}]$
- $b = [\text{insert value of coefficient}]$
- $c = [\text{insert value of coefficient}]$

Base date = thirty (30) days prior to the deadline for submission of the Bids.

Date of adjustment = $[\text{insert number of weeks}]$ weeks prior to date of shipment (representing the mid-point of the period of manufacture).

The above price adjustment formula shall be invoked by either party subject to the following further conditions:

- (a) No price adjustment shall be allowed beyond the original delivery dates. As a rule, no price adjustment shall be allowed for periods of delay for which the Supplier is entirely responsible. The Purchaser will, however, be entitled to any decrease in the prices of the Goods and Services subject to adjustment.

- (b) If the currency in which the Contract Price P_0 is expressed is different from the currency of origin of the labor and material indices, a correction factor will be applied to avoid incorrect adjustments of the Contract Price. The correction factor shall be: Z_0 / Z_1 , where,

Z_0 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P_0 on the Base date, and

Z_1 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P_0 on the Date of Adjustment.

- (c) No price adjustment shall be payable on the portion of the Contract Price paid to the Supplier as advance payment.

Section X - Contract Forms

Table of Forms

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Notification of Intention to Award

[This Notification of Intention to Award shall be sent to each Bidder that submitted a Bid, unless the Bidder has previously received notice of exclusion from the process at an interim stage of the procurement process.]

[Send this Notification to the Bidder's Authorized Representative named in the Bidder Information Form]

For the attention of Bidder's Authorized Representative

Name: *[insert Authorized Representative's name]*

Address: *[insert Authorized Representative's Address]*

Telephone/Fax numbers: *[insert Authorized Representative's telephone/fax numbers]*

Email Address: *[insert Authorized Representative's email address]*

[IMPORTANT: insert the date that this Notification is transmitted to Bidders. The Notification must be sent to all Bidders simultaneously. This means on the same date and as close to the same time as possible.]

DATE OF TRANSMISSION: This Notification is sent by: *[email/fax]* on *[date]* (local time)

Notification of Intention to Award

Purchaser: *[insert the name of the Purchaser]*

Project: *[insert name of project]*

Contract title: *[insert the name of the contract]*

Country: *[insert country where RFB is issued]*

Loan No. /Credit No. / Grant No.: *[insert reference number for loan/credit/grant]*

RFB No: *[insert RFB reference number from Procurement Plan]*

This Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. The transmission of this Notification begins the Standstill Period. During the Standstill Period you may:

- a) request a debriefing in relation to the evaluation of your Bid, and/or
- b) submit a Procurement-related Complaint in relation to the decision to award the contract.

1. The successful Bidder

Name:	<i>[insert name of successful Bidder]</i>
Address:	<i>[insert address of the successful Bidder]</i>
Contract price:	<i>[insert contract price of the successful Bid]</i>

Total combined score:	<i>[insert the total combined score of the successful Bidder]</i>
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2. Other Bidders *[INSTRUCTIONS: insert names of all Bidders that submitted a Bid, Bid prices as read out and evaluated, technical scores and combined scores.]*

Name of Bidder	Technical Score	Bid Price	Evaluated Bid Cost	Combined Score
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>

3. Reason/s why your Bid was unsuccessful *[Delete if the combined score already reveals the reason]*

[INSTRUCTIONS: State the reason/s why this Bidder's Bid was unsuccessful. Do NOT include: (a) a point by point comparison with another Bidder's Bid or (b) information that is marked confidential by the Bidder in its Bid.]

4. How to request a debriefing

DEADLINE: The deadline to request a debriefing expires at midnight on *[insert date]* (local time).

You may request a debriefing in relation to the results of the evaluation of your Bid. If you decide to request a debriefing your written request must be made within three (3) Business Days of receipt of this Notification of Intention to Award.

Provide the contract name, reference number, name of the Bidder, contact details; and address the request for debriefing as follows:

Attention: *[insert full name of person, if applicable]*

Title/position: *[insert title/position]*

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

Fax number: *[insert fax number] delete if not used*

If your request for a debriefing is received within the 3 Business Days deadline, we will provide the debriefing within five (5) Business Days of receipt of your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (5) Business Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.

The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.

If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of the Contract Award Notice.

5. How to make a complaint

Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, *[insert date]* (local time).

Provide the contract name, reference number, name of the Bidder, contact details; and address the Procurement-related Complaint as follows:

Attention: *[insert full name of person, if applicable]*

Title/position: *[insert title/position]*

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

Fax number: *[insert fax number] delete if not used*

At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.

Further information:

For more information see the [Procurement Regulations for IPF Borrowers \(Procurement Regulations\)](#) (Annex III). You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "[How to make a](#)

[Procurement-related Complaint](#)” provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

1. You must be an ‘interested party’. In this case, that means a Bidder who submitted a Bid in this bidding process, and is the recipient of a Notification of Intention to Award.
2. The complaint can only challenge the decision to award the contract.
3. You must submit the complaint within the period stated above.
4. You must include, in your complaint, all of the information required by the Procurement Regulations (as described in Annex III).

6. Standstill Period

DEADLINE: The Standstill Period is due to end at midnight on [insert date] (local time).

The Standstill Period lasts ten (10) Business Days after the date of transmission of this Notification of Intention to Award.

The Standstill Period may be extended as stated in Section 4 above.

If you have any questions regarding this Notification please do not hesitate to contact us.

On behalf of the Purchaser:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

Beneficial Ownership Disclosure Form

INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful Bidder¹. In case of joint venture, the Bidder must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Bidder is any natural person who ultimately owns or controls the Bidder by meeting one or more of the following conditions:

- *directly or indirectly holding 25% or more of the shares*
- *directly or indirectly holding 25% or more of the voting rights*
- *directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder*

RFB No.: [insert number of RFB process]

Request for Bid No.: [insert identification]

To: [insert complete name of Purchaser]

In response to your request in the Letter of Acceptance dated [insert date of letter of Acceptance] to furnish additional information on beneficial ownership: [select one option as applicable and delete the options that are not applicable]

(i) we hereby provide the following beneficial ownership information.

Details of beneficial ownership

Identity of Beneficial Owner	Directly or indirectly holding 25% or more of the shares (Yes / No)	Directly or indirectly holding 25 % or more of the Voting Rights (Yes / No)	Directly or indirectly having the right to appoint a majority of the board of the directors or an equivalent governing body of the Bidder (Yes / No)
[include full name (last, middle, first), nationality, country of residence]			

OR

(ii) *We declare that there is no Beneficial Owner meeting one or more of the following conditions:*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder

OR

(iii) *We declare that we are unable to identify any Beneficial Owner meeting one or more of the following conditions. [If this option is selected, the Bidder shall provide explanation on why it is unable to identify any Beneficial Owner]*

- directly or indirectly holding 25% or more of the shares
- directly or indirectly holding 25% or more of the voting rights
- directly or indirectly having the right to appoint a majority of the board of directors or equivalent governing body of the Bidder”

Name of the Bidder: *[insert complete name of the Bidder]

Name of the person duly authorized to sign the Bid on behalf of the Bidder: **[insert complete name of person duly authorized to sign the Bid]

Title of the person signing the Bid: [insert complete title of the person signing the Bid]

Signature of the person named above: [insert signature of person whose name and capacity are shown above]

Date signed [insert date of signing] **day of** [insert month], [insert year]

* In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder. In the event that the Bidder is a joint venture, each reference to “Bidder” in the Beneficial Ownership Disclosure Form (including this Introduction thereto) shall be read to refer to the joint venture member.

** Person signing the Bid shall have the power of attorney given by the Bidder. The power of attorney shall be attached with the Bid Schedules.

Letter of Acceptance

[letterhead paper of the Purchaser]

[date]

To: *[name and address of the Supplier]*

Subject: **Notification of award Contract No.**

This is to notify you that your Bid dated *[insert date]* for execution of the
[insert name of the contract and identification number, as given in the SCC] for
the Accepted Contract Amount of ***[insert amount in numbers and words and name
of currency]***, as corrected and modified in accordance with the Instructions to Bidders is
hereby accepted by our Agency.

You are requested to furnish (i) the Performance Security within 28 days in accordance with
the Conditions of Contract, using for that purpose one of the Performance Security Forms
and (ii) the additional information on beneficial ownership in accordance with ITB 48.1
within eight (8) Business days using the Beneficial Ownership Disclosure Form, included in
Section X, - Contract Forms, of the Bidding Document.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

[The successful Bidder shall fill in this form in accordance with the instructions indicated]

THIS AGREEMENT made the *[insert: **number**]* day of *[insert: **month**]*, *[insert: **year**]*.

BETWEEN

- (1) *[insert complete name of Purchaser]*, a *[insert description of type of legal entity, for example, an agency of the Ministry of.... of the Government of { insert name of Country of Purchaser }, or corporation incorporated under the laws of { insert name of Country of Purchaser }]* and having its principal place of business at *[insert address of Purchaser]* (hereinafter called “the Purchaser”), of the one part, and
- (2) *[insert name of Supplier]*, a corporation incorporated under the laws of *[insert: country of Supplier]* and having its principal place of business at *[insert: address of Supplier]* (hereinafter called “the Supplier”), of the other part:

WHEREAS the Purchaser invited Bids for certain Goods and ancillary services, viz., *[insert brief description of Goods and Services]* and has accepted a Bid by the Supplier for the supply of those Goods and Services

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) Letter of Bid - Technical Part
 - (c) Letter of Bid - Financial Part
 - (d) the Addenda Nos. _____ (if any)
 - (e) Special Conditions of Contract
 - (f) General Conditions of Contract
 - (g) the Specification (including Schedule of Requirements and Technical Specifications)
 - (h) the completed Schedules (including Price Schedules)
 - (i) any other document listed in GCC as forming part of the Contract

3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of *[insert the name of the Contract governing law country]* on the day, month and year indicated above.

For and on behalf of the Purchaser:

Signed: *[insert signature]*

in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert identification of official witness]*

For and on behalf of the Supplier:

Signed: *[insert signature of authorized representative(s) of the Supplier]*

in the capacity of *[insert title or other appropriate designation]*

in the presence of *[insert identification of official witness]*

Performance Security

Option 1: (Bank Guarantee)

[The bank, as requested by the successful Bidder, shall fill in this form in accordance with the instructions indicated]

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[insert name and Address of Purchaser]*

Date: *[Insert date of issue]*

PERFORMANCE GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that _ *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant") has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the supply of _ *[insert name of contract and brief description of Goods and related Services]* (hereinafter called "the Contract").

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (_____) *[insert amount in words]*,¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the Day of, 2...², and any demand for payment under it must be received by us at this office indicated above on or before that date.

¹ The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, and denominated either in the currency (ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

² Insert the date twenty-eight days after the expected completion date as described in GC Clause 18.4. The Purchaser should note that in the event of an extension of this date for completion of the Contract, the Purchaser would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No. 758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

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guarantee, the Purchaser might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

Option 2: Performance Bond

Not Applicable

By this Bond *[insert name of Principal]* as Principal (hereinafter called “the Supplier”) and *[insert name of Surety]* as Surety (hereinafter called “the Surety”), are held and firmly bound unto *[insert name of Purchaser]* as Obligee (hereinafter called “the Supplier”) in the amount of *[insert amount in words and figures]*, for the payment of which sum well and truly to be made in the types and proportions of currencies in which the Contract Price is payable, the Supplier and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Supplier has entered into a written Agreement with the Purchaser dated the _____ day of _____, 20 __, for *[name of contract and brief description of Goods and related Services]* in accordance with the documents, plans, specifications, and amendments thereto, which to the extent herein provided for, are by reference made part hereof and are hereinafter referred to as the Contract.

NOW, THEREFORE, the Condition of this Obligation is such that, if the Supplier shall promptly and faithfully perform the said Contract (including any amendments thereto), then this obligation shall be null and void; otherwise, it shall remain in full force and effect. Whenever the Supplier shall be, and declared by the Purchaser to be, in default under the Contract, the Purchaser having performed the Purchaser’s obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- (1) complete the Contract in accordance with its terms and conditions; or
- (2) obtain a Bid or Bids from qualified Bidders for submission to the Purchaser for completing the Contract in accordance with its terms and conditions, and upon determination by the Purchaser and the Surety of the lowest responsive Bidder, arrange for a Contract between such Bidder and Purchaser and make available as work progresses (even though there should be a default or a succession of defaults under the Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term “Balance of the Contract Price,” as used in this paragraph, shall mean the total amount payable by Purchaser to Supplier under the Contract, less the amount properly paid by Purchaser to the Supplier; or
- (3) pay the Purchaser the amount required by Purchaser to complete the Contract in accordance with its terms and conditions up to a total not exceeding the amount of this Bond.

The Surety shall not be liable for a greater sum than the specified penalty of this Bond.

Any suit under this Bond must be instituted not later than twenty-eight (28) days following the date of completion of the Supplier's performance of its obligations under the Contract, including any warranty obligations.

No right of action shall accrue on this Bond to or for the use of any person or corporation other than the Purchaser named herein or the heirs, executors, administrators, successors, and assigns of the Purchaser.

In testimony whereof, the Supplier has hereunto set his hand and affixed his seal, and the Surety has caused these presents to be sealed with his corporate seal duly attested by the signature of his legal representative, this _____ day of _____ 20_____
_____.

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

SIGNED ON _____ on behalf of _____

By _____ in the capacity of _____

In the presence of _____

Advance Payment Security

Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

Beneficiary: *[Insert name and Address of Purchaser]*

Date: *[Insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[Insert guarantee reference number]*

Guarantor: *[Insert name and address of place of issue, unless indicated in the letterhead]*

We have been informed that *[insert name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called “the Applicant”) has entered into Contract No. *[insert reference number of the contract]* dated *[insert date]* with the Beneficiary, for the execution of *[insert name of contract and brief description of Goods and related Services]* (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum *[insert amount in figures]* () *[insert amount in words]* is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of *[insert amount in figures]* (____) *[insert amount in words]*¹ upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating either that the Applicant:

- (a) has used the advance payment for purposes other than toward delivery of Goods;
or
- (b) has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

¹ The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Purchaser.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Applicant on its account number *[insert number]* at *[insert name and address of Applicant's bank]*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, has been certified for payment, or on the *[insert day]* day of *[insert month]*, 2 *[insert year]*, whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees (URDG) 2010 Revision, ICC Publication No.758, except that the supporting statement under Article 15(a) is hereby excluded.

[signature(s)]

Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.