

Specific Procurement Notice

Request for Bids

Goods

(One-Envelope Bidding Process)

**Country:** Malawi

**Name of Project:** Southern Africa Trade Connectivity Project (SATCP)

**Contract Title:** **Procurement of Supply, Delivery, Installation and Commission of Laboratory Equipment for the Malawi Bureau of Standards (MBS), Ministry of Agriculture Departments of Agriculture and Research Services (DARS) and Department of Animal Health and Livestock Development (DALHD).**

**Project No. P164847**

**Credit No. IDA 68700**

**Grant No.:** IDA D8040

**RFB Reference No.:** **MW-MTPW-****477152-GO-RFB**

**Date Issued:** 24th **July, 2025**

1. The Ministry of Transport and Public Works has receivedfinancing from the World Bank toward the cost of the Southern Africa Trade and Connectivity Project (SATCP) , and intends to apply part of the proceeds toward payments under the contract for Procurement of Supply, Delivery, Installation and Commission of Laboratory Equipment for the Malawi Bureau of Standards (MBS), Ministry of Agriculture Departments of Agriculture and Research Services (DARS) and Department of Animal Health and Livestock Development (DALHD). “For this contract, the Borrower shall process the payments using the Direct Payment disbursement method, as defined in the World Bank’s Disbursement Guidelines for Investment Project Financing, except for those payments, which the contract provides to be made through letter of credit.”
2. The Ministry of Transport and Public Works now invites sealed Bids from eligible Bidders for:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Line Item | Description of Goods | Quantity  (Physical units) | Final Destination (Project Site) as specified in BDS | Delivery (as per Incoterms) Date |
|  | Delivery (Weeks) |
| LOT 1 | 1 | LC- Triple Quadrupole Mass Spectrometer (LC-MSMS) | 1 | 8 weeks |
| 2 | High Performance Liquid Chromatography (HPLC) | 1 | 8 weeks |
| 3 | Gas Chromatography Mass Spectrometry (GC/MS) | 2 | 8 weeks |
| 4 | Spectrophotometer | 2 | 8 weeks |
| LOT2 | 1 | MALDI TOF Mass Analyzer | 1 | 8 weeks |
| 2 | Drying oven | 4 | 8 weeks |
| 3 | Water Distiller | 4 | 8 weeks |
| 4 | Hawksley Haematocrit Centrifuge | 1 | 8 weeks |
| 5 | Cooled incubator | 4 | 8 weeks |
| 6 | Incubators (incl. double door) | 3 | 8 weeks |
| LOT 3 | 1 | Quantitative PCR (qPCR) Machine | 3 | 8 weeks |
| 2 | Digital Droplet PCR (ddPCR) System | 2 | 8 weeks |
| 3 | Thermo cycler-Electrophoresis Machine | 5 | 8 weeks |
| 4 | ELISA Reader | 4 | 8 weeks |
| 5 | Magnifying Floor Lamp | 5 | 8 weeks |
| 6 | Advanced Confocal Microscope | 3 | 8 weeks |
| 7 | Automated Plate Reader | 1 | 8 weeks |
| 8 | Gel Electrophoresis | 5 | 8 weeks |
| 9 | Compound Microscope | 4 | 8 weeks |
| 10 | Digital Imaging System | 1 | 8 weeks |
| 11 | DNA Sequencer | 1 | 8 weeks |
| 12 | Fluorescent microscope | 2 | 8 weeks |
| LOT 4 | 1 | Nuclear Magnetic Resonance (NMR) | 1 | 8 weeks |
| 2 | Weighing Balance (200g capacity) | 3 | 8 weeks |
| 3 | Weighing Balance (2kg capacity) | 4 | 8 weeks |
| 4 | Upright Fridge | 6 | 8 weeks |
|  |  |  | In all cases the Final Destination shall be the MBS, DARS and DALHD Head office | 8 weeks |
| 5 | Automatic colony counter-SCAN 300 | 1 |  | 8 weeks |
| 6 | Data Logger | 5 |  | 8 weeks |
| 7 | Ultra Low Freezer | 2 |  | 8 weeks |
| LOT 5 | 1 | Moisture meter | 2 |  | 8 weeks |
| 2 | Field Moisture Meter | 2 |  | 8 weeks |
| 3 | Heater | 2 |  | 8 weeks |
| 4 | Plant growth Chamber | 1 |  | 8 weeks |
| 5 | Soil Analyzer | 1 |  | 8 weeks |
| 6 | Flow Cytometer | 2 |  | 8 weeks |
| 7 | Laminar Flow Cabinet | 2 |  | 8 weeks |
| 8 | Ultra-Cool Field Metrology Well | 1 |  | 8 weeks |

3. Bidding will be conducted through international competitive procurement using a Request for Bids (RFB) as specified in the World Bank’s “Procurement Regulations for IPF Borrowers” World Bank’s “Procurement Regulations for IPF Borrowers” dated February, 2025, and is open to all eligible Bidders as defined in the Procurement Regulations.

4. Interested eligible Bidders may obtain further information from The Ministry of Transport and Public Works, The IPDC Chairperson, email: [procurement@satcp.mw](mailto:procurement@satcp.mw) and inspect the bidding document during office hours i.e. 09:30 to 15:30 hoursat the address given below.

5. The bidding document in English may be purchased by interested Bidders upon the submission of a written application to the address below and upon payment of a nonrefundable fee of Twenty Thousand Malawi Kwacha (MK20,000) or equivalent in a freely convertible currency. The method of payment will be direct deposit or transfer to a designated project account number **Southern Africa Trade and Connectivity Ecobank. Account Number 5460000004752 swift code ECOCMWMW** The document will be sent by physical/courier or electronic mail. Bidders will be responsible for shipping by courier.

6. Bids must be delivered to the address below; on or before **24th August, 2025 at 10:00am***.* Electronic Bidding will not be permitted. **All bidders are requested to submit an original, 4 hardcopies and an electronic copy on a flash drive in a searchable pdf format**. **Late Bids will be rejected**. Bids will be publicly opened in the presence of the Bidders’ designated representatives and anyone who chooses to attend at the address below; **The Ministry of Transport and Public Works**

**Capital Hill , 1st Floor**

**Conference Room**

**Private Bag 322**

**Lilongwe 3**

7. All Bids must be accompanied by a *“Bid-Securing Declaration,”*.

8. Attention is drawn to the Procurement Regulations requiring the Borrower to disclose information on the successful bidder’s beneficial ownership, as part of the Contract Award Notice, using the Beneficial Ownership Disclosure Form as included in the bidding document.”]

9. The address(es) referred to above is (are):

**The Chairperson**

**Internal and Disposable of Assets Committee**

**The Ministry of Transport and Public Works**

**Capital Hill , Ground Floor, Room 31**

**Private Bag 322**

**Lilongwe 3**

**Malawi**

**Telephone No.: +265 985 069 633**

**Facsimile No.: + 265 1 789 328**

**Attention: Procurement Specialist**

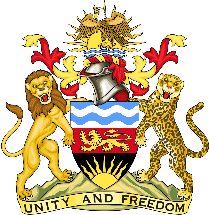
**Email:** [**procurement@satcp.mw**](mailto:procurement@satcp.mw)

[**www.satcp.mw**](http://www.satcp.mw)

**Request for Bids**

**Goods**

**(One-Envelope Bidding Process)**



**Procurement of:**

**Procurement of Supply, Delivery, Installation and Commission of Laboratory Equipment for the Malawi Bureau of Standards (MBS), Ministry of Agriculture Departments of Agriculture and Research Services (DARS) and Department of Animal Health and Livestock Development (DALHD).**

**RFB No: MW-MTPW-477152-GO RFB**

**Project: *Southern Africa Trade and Connectivity Projects (SATCP)***

**Purchaser: Ministry of Transport and Public Works**

**Country: Republic of Malawi**

**Issued on: 26th July, 2025**

**Standard Procurement Document**

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PART 1 – Bidding Procedures

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| Section I - Instructions to Bidders |

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| **Section I. Instructions to Bidders** |

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| 1. General | | |
| 1. Scope of Bid | * 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.**   2. Throughout this bidding document:  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;if the context so requires, “singular” means “plural” and vice versa; and“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. | |
| 1. Source of Funds | * 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. 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 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). | |
| 1. Fraud and Corruption | * 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.   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. | |
| 1. Eligible Bidders | * 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.   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:  directly or indirectly controls, is controlled by or is under common control with another Bidder; orreceives or has received any direct or indirect subsidy from another Bidder; orhas the same legal representative as another Bidder; orhas 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; oror 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; oror any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; orwould 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 ITB 2.1 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; orhas 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.  * 1. 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.   2. 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.   3. A Bidder that has been sanctioned by the Bank, pursuant to the Bank’s Anti-Corruption Guidelines, 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. 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.   5. 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.   6. Firms and individuals may be ineligible if so indicated in Section V 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.   7. A Bidder shall provide such documentary evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.   8. 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;  1. relates to fraud or corruption; and 2. followed a judicial or administrative proceeding that afforded the firm adequate due process. | |
| 1. Eligible Goods and Related Services | * 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.   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.   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 | | |
| 1. Sections of Bidding Document | * 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 (GCC) * Section IX - Special Conditions of Contract (SCC) * Section X - Contract Forms | |
|  | * 1. The Specific Procurement Notice, Request for Bids (RFB), issued by the Purchaser is not part of this bidding document.   2. 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.   3. 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. | |
| 1. Clarification of Bidding Document | * 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. | |
| 1. Amendment of Bidding Document | * 1. At any time prior to the deadline for submission of Bids, the Purchaser may amend the bidding document by issuing addenda.   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.   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 | | |
| 1. Cost of Bidding | * 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. | |
| 1. Language of Bid | * 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. | |
| 1. Documents Comprising the Bid | * 1. The Bid shall comprise the following:  **Letter of Bid** prepared in accordance with ITB 12;  * + 1. **Price Schedules**: completed in accordance with ITB 12 and ITB 14;  **Bid Security** or **Bid-Securing Declaration**, in accordance with ITB 19.1;**Alternative Bid**: if permissible, in accordance with ITB 13;**Authorization**: written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3;**Qualifications**: documentary evidence in accordance with ITB 17 establishing the Bidder’s qualifications to perform the Contract if its Bid is accepted;**Bidder’s Eligibility**: documentary evidence in accordance with ITB 17 establishing the Bidder’s eligibility to bid;**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;**Conformity**: documentary evidence in accordance with ITB 16 and 30, that the Goods and Related Services conform to the bidding document; andany other document required **in the BDS.**  * 1. In addition to the requirements under ITB 11.1, 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.   2. 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. | |
| 1. Letter of Bid and Price Schedules | * 1. The Letter of Bid and Price Schedules shall be prepared 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. | |
| 1. Alternative Bids | * 1. Unless otherwise specified **in the** **BDS,** alternative Bids shall not be considered. | |
| 1. Bid Prices and Discounts | * 1. The prices and discounts quoted by the Bidder in the Letter of Bid and in the Price Schedules shall conform to the requirements specified below.   2. All lots (contracts) and items must be listed and priced separately in the Price Schedules.   3. The price to be quoted in the Letter of Bid in accordance with ITB 12.1 shall be the total price of the Bid, excluding any discounts offered.   4. The Bidder shall quote any discounts and indicate the methodology for their application in the Letter of Bid, in accordance with ITB 12.1.   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 29. 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.   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. Discounts shall be submitted in accordance with ITB 14.4 provided the Bids for all lots (contracts) are opened at the same time.   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.**   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:  For Goods manufactured in the Purchaser’s Country:  * + - 1. 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;       2. 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       3. 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.**  For Goods manufactured outside the Purchaser’s Country, to be imported:  * + - 1. the price of the Goods, quoted CIP named place of destination, in the Purchaser’s Country, as specified **in the** **BDS;**       2. 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;**  For Goods manufactured outside the Purchaser’s Country, already imported:  * + - 1. 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;       2. 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;       3. the price of the Goods, obtained as the difference between (i) and (ii) above;       4. any Purchaser’s Country sales and other taxes which will be payable on the Goods if the Contract is awarded to the Bidder; and       5. 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.**  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, the price of each item comprising the Related Services (inclusive of any applicable taxes). | |
| 1. Currencies of Bid and Payment | * 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.**   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. | |
| 1. Documents Establishing the Eligibility and Conformity of the Goods and Related Services | * 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.   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.   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.   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.   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. | |
| 1. Documents Establishing the Eligibility and Qualifications of the Bidder | * 1. To establish Bidder’s eligibility in accordance with ITB 4, Bidders shall complete the Letter of Bid, included in Section IV, Bidding Forms.   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:      1. 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;      2. 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      3. that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria. | |
| 1. Period of Validity of Bids | * 1. Bids shall remain valid until the date **specified in the BDS** or any extended date if amended by the Purchaser in accordance with ITP 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 ITP 8, shall be rejected by the Purchaser as nonresponsive.   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.   3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity period, the Contract price shall be determined as follows:      1. in the case of fixed price contracts, the Contract price shall be the Bid price adjusted by the factor specified **in the** **BDS**;      2. in the case of adjustable price contracts, no adjustment shall be made;      3. in any case, Bid evaluation shall be based on the Bid price without taking into consideration the applicable correction from those indicated above. | |
| 1. Bid Security | * 1. The Bidder shall furnish as 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.**   2. A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.   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:  an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company);an irrevocable letter of credit;a cashier’s or certified check; oranother security specified **in the BDS**, from a reputable source, and 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.   * 1. 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.   2. 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 46.   3. 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.   4. The Bid Security may be forfeited:  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; orif the successful Bidder fails to:sign the Contract in accordance with ITB 45; orfurnish a Performance Security in accordance with ITB 46.  * 1. 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 11.2.   2. If a Bid Security is not required in the BDS, pursuant to ITB 19.1, and   3. 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   4. if the successful Bidder fails to: sign the Contract in accordance with ITB 45; or furnish a performance security in accordance with ITB 46;   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**. | |
| 1. Format and Signing of Bid | * 1. The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it “Original.” Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked “Alternative.” In addition, the Bidder shall submit copies of the Bid, in the number specified in the BDS and clearly mark them “Copy.” In the event of any discrepancy between the original and the copies, the original shall prevail.   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.   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.   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.   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 and Opening of Bids | | |
| 1. Sealing and Marking of Bids | * 1. The Bidder shall deliver the Bid in a single, sealed envelope (one-envelope Bidding process). Within the single envelope the Bidder shall place the following separate, sealed envelopes:      1. in an envelope marked “Original”, all documents comprising the Bid, as described in ITB 11; and      2. in an envelope marked “Copies”, all required copies of the Bid; and,      3. if alternative Bids are permitted in accordance with ITB 13, and if relevant:   i. in an envelope marked “Original -Alternative”, the alternative Bid; and  ii. in the envelope marked “Copies – Alternative Bid” all required copies of the alternative Bid.   * 1. The inner and outer envelopes, shall:  bear the name and address of the Bidder;be addressed to the Purchaser in accordance with ITB 22.1;bear the specific identification of this Bidding process indicated in ITB 1.1; andbear a warning not to open before the time and date for Bid opening.  * 1. 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. | |
| 1. Deadline for Submission of Bids | * 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.   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. | |
| 1. Late Bids | * 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. | |
| 1. Withdrawal, Substitution, and Modification of Bids | * 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:  1. prepared and submitted in accordance with ITB 20 and 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “Withdrawal,” “Substitution,” or “Modification;” and 2. received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.    1. Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.    2. 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 or any extension thereof. | |
| 1. Bid Opening | * 1. Except as in the cases specified in ITB 23 and ITB 24.2, the Purchaser shall, at the Bid opening, publicly open and read out 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 attendAny specific electronic Bid opening procedures required if electronic bidding is permitted in accordance with ITB 22.1, shall be as specified **in the** **BDS.**   2. First, 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.   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.   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.   5. Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Bidder and whether there is a modification; the total Bid Prices, per lot (contract) if applicable, including any discounts and alternative Bids; the presence or absence of a Bid Security, if required; and any other details as the Purchaser may consider appropriate.   6. Only Bids, alternative Bids and discounts that are opened and read out at Bid opening shall be considered further in the evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Purchaser attending Bid opening in the manner specified **in the** **BDS.**   7. The Purchaser shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).   8. The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum:   (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;  (b) the Bid Price, per lot (contract) if applicable, including any discounts;  (c) any alternative Bids;  (d) the presence or absence of a Bid Security or Bid-Securing Declaration, if one was required.   * 1. 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. | |
| E. Evaluation and Comparison of Bids | | |
| 1. Confidentiality | * 1. Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the information on Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 40.   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.   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. | |
| 1. Clarification of Bids | * 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 31.   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. | |
| 1. Deviations, Reservations, and Omissions | * 1. During the evaluation of Bids, the following definitions apply:  1. “Deviation” is a departure from the requirements specified in the bidding document; 2. “Reservation” is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and 3. “Omission” is the failure to submit part or all of the information or documentation required in the bidding document. | |
| 1. Determination of Responsiveness | * 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.   2. 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:  if accepted, would:affect in any substantial way the scope, quality, or performance of the Goods and Related Services specified in the Contract; orlimit in any substantial way, inconsistent with the bidding document, the Purchaser’s rights or the Bidder’s obligations under the Contract; orif rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.  * 1. 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.   2. 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. | |
| 1. Nonconformities, Errors and Omissions | * 1. Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformities in the Bid.   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.   3. 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. | |
| 1. Correction of Arithmetical Errors | 1. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:  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;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; andif 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.  1. Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction in accordance with ITB 31.1, shall result in the rejection of the Bid. | |
| 1. Conversion to Single Currency | * 1. For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted in a single currency as specified **in the** **BDS.** | |
| 1. Margin of Preference | * 1. Unless otherwise specified **in the** **BDS,** a margin of preference shall not apply. | |
| 1. Evaluation of Bids | * 1. The Purchaser shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies, the Purchaser shall determine the Most Advantageous Bid. This is the Bid of the Bidder that meets the qualification criteria and whose Bid has been determined to be:   (a) substantially responsive to the bidding document; and  (b) the lowest evaluated cost.   * 1. To evaluate a Bid, the Purchaser shall consider the following:  evaluation will be done for Items or Lots (contracts), as specified **in the** **BDS;** andthe Bid Price as quoted in accordance with ITB 14;price adjustment for correction of arithmetic errors in accordance with ITB 31.1;price adjustment due to discounts offered in accordance with ITB 14.4;converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 32;price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 30.3; andthe additional evaluation factors are specified in Section III, Evaluation and Qualification Criteria.  * 1. 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.   2. If this bidding document allows Bidders to quote separate prices for different lots (contracts), the methodology to determine the lowest evaluated cost of the lot (contract) combinations, including any discounts offered in the Letter of Bid, is specified in Section III, Evaluation and Qualification Criteria.   3. The Purchaser’s evaluation of a Bid will exclude and not take into account:  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;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;any allowance for price adjustment during the period of execution of the contract, if provided in the Bid.  * 1. 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). | |
| 1. Comparison of Bids | * 1. The Purchaser shall compare the evaluated costs of all substantially responsive Bids established in accordance with ITB 34.2 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. | |
| 1. Abnormally Low Bids | An Abnormally Low Bid is one where the Bid price, in combination with other constituent elements of the Bid, appears unreasonably low to the extent that the Bid price raises material concerns with the Purchaser as to the capability of the Bidder to perform the Contract for the offered Bid price.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.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. | |
| 1. Qualification of the Bidder | * 1. The Purchaser shall determine, to its satisfaction, whether the eligible Bidder that is selected as having submitted the lowest evaluated cost and substantially responsive Bid, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.   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(s) different from the Bidder.   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.   4. An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Purchaser shall proceed to the Bidder who offers a substantially responsive Bid with the next lowest evaluated cost to make a similar determination of that Bidder’s qualifications to perform satisfactorily. | |
| 1. Purchaser’s Right to Accept Any Bid, and to Reject Any or All Bids | * 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. | |
| 1. Standstill Period | * 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 44. 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. | |
| 1. Notification of Intention to Award | * 1. The Purchaser shall send to each Bidder 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:  1. the name and address of the Bidder submitting the successful Bid; 2. the Contract price of the successful Bid; 3. the names of all Bidders who submitted Bids, and their Bid prices as readout, and as evaluated; 4. a statement of the reason(s) the Bid (of the unsuccessful Bidder to whom the notification is addressed) was unsuccessful, unless the price information in c) above already reveals the reason; 5. the expiry date of the Standstill Period; 6. instructions on how to request a debriefing and/or submit a complaint during the standstill period. | |
| F. Award of Contract | | |
| 1. Award Criteria | 41.1 Subject to ITB 38, the Purchaser shall award the Contract to the Bidder offering 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:  (a) substantially responsive to the bidding document; and  (b) the lowest evaluated cost. | |
| 1. Purchaser’s Right to Vary Quantities at Time of Award | 42.1 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. | |
| 1. Notification of Award | 43.1 Prior to the date of expiry of the Bid validity and upon expiry of the Standstill Period, specified in ITB 39.1 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”).  43.2 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:   1. name and address of the Purchaser; 2. name and reference number of the contract being awarded, and the selection method used; 3. names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated; 4. 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; 5. the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and 6. successful Bidder’s Beneficial Ownership Disclosure Form, if specified in BDS ITB 45.1.   43.3 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. The Purchaser shall also publish the contract award notice in UNDB online.  43.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract. | |
| 1. Debriefing by the Purchaser | | 44.1 On receipt of the Purchaser’s Notification of Intention to Award referred to in ITB 40.1, 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.   * 1. 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   2. 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.   3. Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidders shall bear their own costs of attending such a debriefing meeting. |
| 1. Signing of Contract | | * 1. The Purchaser shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and, if specified in the BDS, a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form, if so requested, shall be submitted within eight (8) Business Days of receiving this request.   2. The successful Bidder shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt.   3. Notwithstanding ITB 45.2 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. |
| 1. Performance Security | | * 1. Within twenty-eight (28) days of the receipt of 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.   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 next Most Advantageous Bid. |
| 1. Procurement Related Complaint | | * 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, 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** | The reference number of the Request for Bids (RFB) is: **MW-MTPW-477152-GO-RFB**  Purchaser is: Ministry of Transport and Public Works  The name of the RFB is: Procurement of Supply, Delivery, Installation and Commission of Laboratory Equipment for the Malawi Bureau of Standards (MBS), Ministry of Agriculture Departments of Agriculture and Research Services (DARS) and Department of Animal Health and Livestock Development (DALHD).  The number and identification of lots (contracts)comprising this RFB is: **Five (5)** |
| **ITB 2.1** | The Borrower is: Republic of Malawi Government  Loan or Financing Agreement amount: **USD150 Million United States Dollars**  The name of the Project is: Southern Africa Trade and Connectivity Project |
| **ITB 4.1** | Maximum number of members in the Joint Venture (JV) shall be: Three (3) |
| 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** | For **Clarification of Bid purposes** only, the Purchaser’s address is:  Attention: IPDC Chairperson  Address: Ministry of Transport and Public Works  Southern Africa Trade and Connectivity Project  Capital Hill, Room 31, Ground Floor  Lilongwe  Malawi  Telephone: +265985069633  Facsimile number: +2651789328  Electronic mail address: [procurement@satcp.mw](mailto:procurement@satcp.mw)  Requests for clarification should be received by the Purchaser no later than: 15 days prior to submission date***.***  Web page: [www.satcp.mw/procurement](http://www.satcp.mw/procurement) |
|  | **C. Preparation of Bids** |
| **ITB 10.1** | The language of the Bid is:***English***  All correspondence exchange shall be in English language.  Language for translation of supporting documents and printed literature is English*.* |
| **ITB 11.1 (j)** | The Bidder shall submit the following additional documents in its Bid:  **Business Registration certificates or certificates of incorporation**  **Valid MRA Tax Clearance Certificate for local suppliers**  **Valid PPDA registration certificates for local suppliers**  **Quality Management Certificates (ISO or equivalent) applicable to laboratory equipment manufacturers and/or suppliers** |
| **ITB 13.1** | Alternative Bids ***shall not be*** considered. |
| **ITB 14.5** | The prices quoted by the Bidder **shall not** be subject to adjustment during the performance of the Contract. |
| **ITB 14.6** | Prices quoted for each lot (contract) shall correspond at least **to 100** percent of the items specified for each lot (contract).  Prices quoted for each item of a lot shall correspond at least to 100percent of the quantities specified for this item of a lot. |
| **ITB 14.7** | The Incoterms edition is: edition 2020*.* |
| **ITB 14.8 (b)(i)** | Place of destination: MBS, DARS and DALHD head offices |
| **ITB 14.8 (a)(iii), (b)(ii) and (c)(v)** | Final Destination (Project Site): MBS, DARS and DALHD head offices |
| **ITB 15.1** | The Bidder ***is not*** 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): 5 years |
| **ITB 17.2 (a)** | Manufacturer’s authorization is: ***required for the following items***  ***1. Nuclear Magnetic Resonance (NMR)***  ***2. LC- Triple Quadrupole Mass Spectrometer (LC-MSMS)***  ***3. High Performance Liquid Chromatography (HPLC)***  ***4. MALDI TOF Mass Analyzer***  ***5. Gas Chromatography Mass Spectrometry (GC/MS)*** |
| ITB 17.2 (b) | After sales service is: ***required*** |
| **ITB 18.1** | The Bid shall be valid for 120 days |
| **ITB 18.3 (a)** | The Bid price shall be adjusted by the following factor(s):  ***The local currency portion of the Contract price shall be adjusted by a factor reflecting local inflation during the period of extension, and the foreign currency portion of the Contract price shall be adjusted by a factor reflecting the international inflation (in the country of the foreign currency) during the period of extension.*** |
| **ITB 19.1** | A Bid-Securing Declaration ***shall be*** required. |
| **ITB 19.3 (d)** | Other types of acceptable securities: None |
| **ITB 19.9** | If the Bidder performs any of the actions prescribed in ITB 19.9 (a) or (b), the Borrower will declare the Bidder ineligible to be awarded a contract by the Purchaser for a period of two (2)years starting from the date the Bidder performs any of the actions. |
| **ITB 20.1** | In addition to the original of the Bid, the number of copies is: 4  Bidders must also submit an electronic copy, on a memory stick (flash disk), of the  Documents identifying the bid, each clearly marked copy. The electronic copies of the bid documents must be in a searchable PDF format. The file name for each document must be sufficient to identify the following without opening the document and may not reveal any other information regarding the contents of the document:  a) The bidder’s name (which may be an abbreviation or acronym so long as  it is sufficient to identify the bidder)  b) The name of the document submitted and  c) If the document is submitted as multiple files, identification of the part of the file submitted and the total number of files comprising the document  In the event of discrepancy between the original and the copies, the original shall prevail, In the event of discrepancy between the hard copy and the electronic copy (PDF Format), the hard copy shall prevail. |
| **ITB 20.3** | The written confirmation of authorization to sign on behalf of the Bidder shall consist of**: Power of Attorney** |
|  | **D. Submission and Opening of Bids** |
| **ITB 22.1** | For **Bid submission purposes** only, the Purchaser’s address is:  **Attention: IPDC Chairperson**  **Address: Ministry of Transport and Public Works**  **Southern Africa Trade and Connectivity Project**  **Capital Hill, Room 31, Ground Floor**  **Lilongwe**  **Malawi**  **The deadline for Bid submission is:**  Date: **24 August, 2025**  Time:  ***10:00 a.m.*** *Malawi time*  Bidders ***shall not*** have the option of submitting their Bids electronically |
| **ITB 25.1** | The Bid opening shall take place at:  Street Address: Ministry of Transport and Public Works  Capital Hill  Floor/ Room number: Conference Room  City: Lilongwe  Country: Malawi  Date: **24 August, 2025**  Time: 10:00 am *Malawi time* |
| **ITB 25.6** | The Letter of Bid and Price Schedules shallbe initialed by the IPDC Chairperson or the representatives of the Purchaser conducting Bid opening*.*  ***The procedure:***  ***1 Bid shall be opened and called out***   1. ***Each Bid shall be initialed by the IPDC Chairperson or representatives*** 2. ***Bid shall be numbered*** 3. ***Bid total price will be read out*** 4. ***Any modification to the unit or total price shall be initialed by the Representative of the Purchaser,*** 5. ***The Bid will be stamped*** 6. ***Check Bid securing declaration*** |
|  | |
| **ITB 32.1** | 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: the United States Dollars  The source of exchange rate shall be: Reserve Bank of Malawi  The date for the exchange rate shall be*:*24th August, 2025 |
| **ITB 33.1** | A margin of domestic preference ***shall not***apply. |
| **ITB 34.2(a)** | Evaluation will be done for lots,bidders are allowed to participate to a minimum of two (2) lots. Bids with partial completion of a lot will NOT be acceptable |
| **ITB 34.6** | The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria: ***[refer to Section III, Evaluation and Qualification Criteria; insert complementary details if necessary]***   1. Deviation in Delivery schedule:  ***No.*** 2. Deviation in payment schedule:  ***No.*** 3. the cost of major replacement component, mandatory spare parts, and service: ***No.*** 4. the availability in the Purchaser’s Country of spare parts and after-sales services for the equipment offered in the Bid ***Yes*** 5. the performance and productivity of the equipment offered; *Yes* 6. ***sustainable procurement technical requirements****Yes* |
|  | **F. Award of Contract** |
| **ITB 42** | The maximum percentage by which quantities may be increased is: 15%  The maximum percentage by which quantities may be decreased is:15% |
| **ITB 45. 1** | The successful Bidder *shall* submit the Beneficial Ownership Disclosure Form. |
| **ITB 47.1** | The procedures for making a Procurement-related Complaint are detailed in the “[Procurement Regulations for IPF Borrowers](http://www.worldbank.org/en/projects-operations/products-and-services/brief/procurement-new-framework) (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:  **For the attention**: Eng. David Mzandu  **Title/position**: Secretary to the Transport and Public Works  **Purchaser**: Ministry of Transport and Public Works  **Email address***:* [*procurement@satcp.mw*](mailto:procurement@satcp.mw)  In summary, a Procurement-related Complaint may challenge any of the following:   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 a Bid and qualify the Bidders. No other factors, methods or criteria shall be used other than specified in this bidding document.

**[The Purchaser shall select the criteria deemed appropriate for the procurement process, insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]**

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1. Margin of Preference (ITB 33)

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.

The Bids in each group will then be compared to determine the Bid with the lowest evaluated cost in that group. The lowest evaluated cost 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 lowest, it shall be selected for the award.

If as a result of the preceding comparison, a Bid from Group C is the lowest evaluated cost, all Bids from Group C shall be further compared with the Bid with the lowest evaluated cost from Group A after adding to the evaluated costs 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 lowest, it shall be selected for award. If not, the lowest evaluated cost from Group C shall be selected.

**Most Advantageous Bid**

The Purchaser shall use the criteria and methodologies listed in Section 2 and 3 below to 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:

(a) substantially responsive to the bidding document; and

(b) the lowest evaluated cost.

2. Evaluation (ITB 34)

**2.1. Evaluation Criteria (ITB 34.6)**

The Purchaser’s evaluation of a Bid may take into account, in addition to the Bid Price quoted in accordance with ITB 14.8, one or more of the following factors as specified in ITB 34.2(f) and in BDS referring to ITB 34.6**,** usingthe 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 6-8 weeks from the date of signing the contract as 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.

The SCC16.1 stipulates the payment schedule specified by the Purchaser.

(c) Cost of major replacement components, mandatory spare parts, and service.

(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.

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

An adjustment equal to the cost to the Purchaser of establishing the minimum service facilities and parts inventories if quoted separately, shall be added to the Bid price, for evaluation purposes only*.*

(e) Performance and productivity of the equipment:

(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,

1. **sustainable procurement technical requirements** will be evaluated on a pass/fail (compliance basis)

**2.2. Multiple Contracts (ITB 34.4)**

If in accordance with ITB 1.1, Bids are invited for individual lots or for any combination of lots, the contract will be awarded to the Bidder or Bidders offering a substantially responsive Bid(s) and the lowest evaluated cost to the Purchaser for combined lots, after considering all possible combination of lots, subject to the selected Bidder(s) meeting the required qualification criteria (this Section III, Sub-Section ITB 37 Qualification Requirements) for a lot or combination of lots as the case may be.

In determining Bidder or Bidders that offer the total lowest evaluated cost to the Purchaser for combined lots, the Purchaser shall apply the following steps in sequence:

(a) evaluate individual lots to determine the substantially responsive Bids and corresponding evaluated costs;

(b) for each lot, rank the substantially responsive Bids starting from the lowest evaluated cost for the lot;

(c) apply to the evaluated costs listed in b) above, any applicable discounts/price reductions offered by a Bidder (s) for the award of multiple contracts based on the discounts and the methodology for their application offered by the respective Bidder; and

(d) determine contract award on the basis of the combination of lots that offer the total lowest evaluated cost to the Purchaser.

**2.3. Alternative Bids (ITB 13.1)**

Not Applicable

3. Qualification (ITB 37)

**3.1 Qualification Criteria (ITB 37.1)**

After determining the substantially responsive Bid which offers the lowest-evaluated cost in accordance with ITB 34, and, if applicable, the assessment of any Abnormally Low Bid (in accordance with ITB 36) the Purchaser shall carry out the post-qualification of the Bidder in accordance with ITB 37, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder’s qualifications.

1. **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 **(2023-2022 2022-2021 2021-2020)**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;
2. **Specific Experience**: The Bidder shall demonstrate that it has successfully completed at least **3 (Three)**contracts within the last **5 (five)** years *prior* to bid submission deadline, each with a value of at least **USD 200,000.00** that have been successfully and substantially completed and that are similar in nature and complexity to the Goods and Related Services under the Contract. For a joint venture, this requirement may be met by all members combined.
3. **Documentary Evidence**: The Bidder shall furnish documentary evidence to demonstrate that the goods it offers meet the following usage requirement**: list the brochures for each equipment to be supplied**
4. **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:
5. it has manufactured goods of similar nature and complexity for at least three (3) years , prior to the bid submission deadline; and
6. 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 three (3) times the quantities specified under the contract.
7. 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 (d) (i) and (ii) above, to supply the Goods;
8. (f) A bidder 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/ 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.

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Letter of Bid

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| --- |
| *INSTRUCTIONS TO BIDDERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE DOCUMENT*  *The Bidder must prepare this Letter of Bid 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 RFB 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*]**

1. **No reservations:** We have examined and have no reservations to the bidding document, including Addenda issued in accordance with Instructions to Bidders (ITB 8);
2. **Eligibility**: We meet the eligibility requirements and have no conflict of interest in accordance with ITB 4;
3. **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;
4. **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:

1. [have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
2. [are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]
3. [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.]
4. **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*];
5. **Bid Price**: The total price of our Bid, excluding any discounts offered in item (f) below is:

Option 1, in case of one lot: Total price is: [*insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies*];

Or

Option 2, in case of multiple lots: (a) Total price of each lot [*insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies*]; and (b) 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*];

1. **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*];

1. **Bid Validity**: Our Bid shall be valid until *[insert day, month and year in accordance with ITP 18.1],* and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
2. **Performance Security**: If our Bid is accepted, we commit to obtain a performance security in accordance with the bidding document;
3. **One Bid per Bidder**: We are not submitting any other Bid(s) as an individual Bidder, and weare 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;
4. **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;
5. **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*];
6. **Commissions, gratuities, 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.”)

1. **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;
2. **Purchaser 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
3. **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 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.

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 RFB process]*

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

Page \_\_\_\_\_\_\_\_ of\_ \_\_\_\_\_\_ pages

|  |
| --- |
| 1. Bidder’s Name *[insert Bidder’s legal name]* |
| 2. In case of JV, legal name of each member: *[insert legal name of each member in JV]* |
| 3. Bidder’s actual or intended country of registration: *[insert actual or intended country of registration]* |
| 4. Bidder’s year of registration: *[insert Bidder’s year of registration]* |
| 5. Bidder’s Address in country of registration: *[insert Bidder’s legal address in country of registration]* |
| 6. Bidder’s Authorized Representative Information  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]* |
| 7. Attached are copies of original documents of *[check the box(es) of the attached original documents]*   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.   In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.   In case of state-owned enterprise or institution, in accordance with ITB 4.6 documents establishing:   * 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. *[If required under BDS ITB 45.1, the successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.]* |

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 Bidding process]*

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

Page \_\_\_\_\_\_\_\_ of\_ \_\_\_\_\_\_ pages

|  |
| --- |
| 1. Bidder’s Name: *[insert Bidder’s legal name]* |
| 2. Bidder’s JV Member’s name: *[insert JV’s Member legal name]* |
| 3. Bidder’s JV Member’s country of registration: *[insert JV’s Member country of registration]* |
| 4. Bidder’s JV Member’s year of registration: *[insert JV’s Member year of registration]* |
| 5. Bidder’s JV Member’s legal address in country of registration: *[insert JV’s Member legal address in country of registration]* |
| 6. Bidder’s JV Member’s authorized representative information  Name: *[insert name of JV’s Member authorized representative]*  Address: *[insert address of JV’s Member authorized representative]*  Telephone/Fax numbers: *[insert telephone/fax numbers of JV’s Member authorized representative]*  Email Address: *[insert email address of JV’s Member authorized representative]* |
| 7. Attached are copies of original documents of *[check the box(es) of the attached original documents]*   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.   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. *[If required under BDS ITB 45.1, 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:   (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations   (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations   (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. |
| **[*If (c) above is applicable*, *attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]*** |

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.]*

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 *[insert place of destination]*  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) |
| *[insert number of the item]* | *[insert name of good]* | *[insert country of origin of the Good]* | *[insert quoted Delivery Date]* | *[insert number of units to be supplied and name of the physical unit]* | *[insert unit price CIP per unit]* | *[insert total CIP price per line item]* | *[insert the corresponding price per line item]* | | | *[insert total price of the line item]* |
|  |  |  |  |  |  |  |  | | |  |
|  |  |  |  |  |  |  |  | | |  |
|  | | | | | | | | 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) |
| *[insert number of the item]* | *[insert name of Goods]* | *[insert country of origin of the Good]* | *[insert quoted Delivery Date]* | *[insert number of units to be supplied and name of the physical unit]* | *[insert unit price per unit]* | *[insert custom duties and taxes paid per unit]* | *[insert unit price net of custom duties and import taxes]* | *[ insert price per line item net of custom duties and import taxes]* | *[insert price per line item for inland transportation and other services required in the Purchaser’s Country]* | *[insert sales and other taxes payable per item if Contract is awarded]* | *[insert total price per line item]* |
|  |  |  |  |  |  |  |  |  |  |  |  |
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|  | | | | | | | | | | 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. 45) | 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) |
| *[insert number of the item]* | *[insert name of Good]* | *[insert quoted Delivery Date]* | *[insert number of units to be supplied and name of the physical unit]* | *[insert EXW unit price]* | *[insert total EXW price per line item]* | *[insert the corresponding price per line item]* | *[Insert cost of local labor, raw material and components from within the Purchase’s country as a % of the EXW price per line item]* | *[insert sales and other taxes payable per line item if Contract is awarded]* | *[insert total price per item]* |
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|  |  |  |  |  |  |  |  |  |  |
|  | | | | | | | | Total Price |  |
| Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]* | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| 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) |
| *[insert number of the Service ]* | *[insert name of Services]* | | *[insert country of origin of the Services]* | *[insert delivery date at place of final destination per Service]* | *[insert number of units to be supplied and name of the physical unit]* | *[insert unit price per item]* | *[insert total price per item]* |
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|  |  | |  |  |  |  |  |
|  |  | |  |  |  |  |  |
|  | | | | | Total Bid Price | |  |
| Name of Bidder *[insert complete name of Bidder]* Signature of Bidder *[signature of person signing the Bid]* Date *[insert date]* | | | | | | | |

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)

*[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]*[[1]](#footnote-2) *[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:

1. 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
2. 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.

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: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
 Corporate Seal (where appropriate)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
*(Signature) (Signature)  
(Printed name and title) (Printed name and title)*

Form of Bid-Securing Declaration

*[The Bidder shall fill in this Form in accordance with the instructions indicated.]*

Date: *[date (as day, month and year)]*

Bid 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.]*

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]*

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:<https://www.worldbank.org/en/projects-operations/procurement/debarred-firms>

Under ITB 4.8(b) and ITB 5.1: <https://www.worldbank.org/en/projects-operations/procurement/debarred-firms>

Section VI - Fraud and Corruption

**(Section VI shall not be modified)**

1. **Purpose**
   1. The Bank’s Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.
2. **Requirements**
3. 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.
4. To this end, the Bank:
5. Defines, for the purposes of this provision, the terms set forth below as follows:
6. “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
7. “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;
8. “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;
9. “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;
10. “obstructive practice” is:
11. 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
12. acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 2.2 e. below.
13. 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;
14. 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;
15. 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;[[2]](#footnote-3) (ii) to be a nominated[[3]](#footnote-4) 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;
16. 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 inspect[[4]](#footnote-5) 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.

PART 2 – Supply Requirements

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| Section VII - Schedule of Requirements |

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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 42.1.

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).

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| 1. List of Goods and Delivery Schedule  *[The Purchaser shall fill in this table, with the exception of the column “Bidder’s offered Delivery date” to be filled by the Bidder]*   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Lot Item** | **Line Item** | **Description of Goods** | Quantity | **Physical unit** | **Final Destination (Project Site) as specified in BDS** |  | | | (Physical units ) | **Latest Delivery Date** | **Bidder’s offered Delivery date [*to be provided by the Bidder*]** | |  | | LOT 1 | 1 | LC- Triple Quadrupole Mass Spectrometer (LC-MSMS) | 1 | each | MBS | 8 Weeks |  | | 2 | High Performance Liquid Chromatography (HPLC) | 1 | each | MBS | 8 Weeks |  | | 3 | Gas Chromatography Mass Spectrometry (GC/MS) | 2 | each | DALHD | 8 Weeks |  | | 4 | Spectrophotometer | 2 | each | DALHD | 8 Weeks |  | | LOT2 | 1 | MALDI TOF Mass Analyzer | 1 | each | DALHD | 8 Weeks |  | | 2 | Drying oven | 4 | each | MBS/DARS/DALHD | 8 Weeks |  | | 3 | Water Distiller | 4 | each | DARS/DALHD | 8 Weeks |  | | 4 | Hawksley Haematocrit Centrifuge | 1 | each | DARS/DALHD | 8 Weeks |  | | 5 | Cooled incubator | 4 | each | DARS/DALHD | 8 Weeks |  | | 6 | Incubators (incl. double door) | 3 | each | MBS/DARS/DALHD | 8 Weeks |  | | LOT 3 | 1 | Quantitative PCR (qPCR) Machine | 3 | each | DARS/DALHD | 8 Weeks |  | | 2 | Digital Droplet PCR (ddPCR) System | 2 | each | DARS/DALHD | 8 Weeks |  | | 3 | Thermo cycler-Electrophoresis Machine | 5 | each | DARS/DALHD | 8 Weeks |  | | 4 | ELISA Reader | 4 | each | DARS/DALHD | 8 Weeks |  | | 5 | Magnifying Floor Lamp | 5 | each | DARS | 8 Weeks |  | | 6 | Advanced Confocal Microscope | 3 | each | DARS/DALHD | 8 Weeks |  | | 7 | Automated Plate Reader | 1 | each | DARS/DALHD | 8 Weeks |  | | 8 | Gel Electrophoresis | 5 | each | DARS | 8 Weeks |  | | 9 | Compound Microscope | 4 | each | DARS | 8 Weeks |  | | 10 | Digital Imaging System | 1 | each | DARS | 8 Weeks |  | | 11 | DNA Sequencer | 1 | each | DARS/DALHD | 8 Weeks |  | | 12 | Fluorescent microscope | 2 | each | DARS/DALHD | 8 Weeks |  | | LOT 4 | 1 | Nuclear  Magnetic Resonance (NMR) | 1 | each | DARS | 8 Weeks |  | | 2 | Weighing Balance (200g capacity) | 3 | each | DARS/DALHD | 8 Weeks |  | | 3 | Weighing Balance (2kg capacity) | 4 | each | MBS/DARS/DALHD | 8 Weeks |  | | 4 | Upright Fridge | 6 | each | DARS | 8 Weeks |  | | 5 | Automatic colony counter-SCAN 300 | 1 | each | DARS | 8 Weeks |  | | 6 | Data Logger | 5 | each | DARS/DALHD | 8 Weeks |  | | 7 | Ultra Low Freezer | 2 | each | DARS/DALHD | 8 Weeks |  | | LOT 5 | 1 | Moisture meter | 2 | each | DARS/DALHD | 8 Weeks |  | | 2 | Field Moisture Meter | 2 | each | DARS/DALHD | 8 Weeks |  | | 3 | Heater | 2 | each | DARS/DALHD | 8 Weeks |  | | 4 | Plant growth Chamber | 1 | each | MBS | 8 Weeks |  | | 5 | Soil Analyzer | 1 | each | DALHD | 8 Weeks |  | | 6 | Flow Cytometer | 2 | each | DALHD | 8 Weeks |  | | 7 | Laminar Flow Cabinet | 2 | each | DALHD | 8 Weeks |  | | 8 | Ultra-Cool Field Metrology Well | 1 | each | DALHD | 8 Weeks |  | |

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| 2. List of Related Services and Completion Schedule  *Installation and commissioning of the equipment* | | | | | |
| **Service** | **Description of Service** | **Quantity1** | **Physical Unit** | **Place where Services shall be performed** | **Final Completion Date(s) of Services** |
|
| Lot 4 Item1 | Nuclear Magnetic Resonance (NMR) | 1 | ea | MBS | 8 wks |
| Lot 1 Item 1 | Liquid Chromatography Triple Quadrupole Mass Spectrometer (LC-MSMS) | 1 | ea | MBS | 8 wks |
| Lot 1 Item 2 | High Performance Liquid Chromatography (HPLC) | 1 | ea | MBS | 8 wks |
| Lot 2 Item 1 | MALDI TOF Mass Analyzer | 1 | ea | MBS | 8 wks |
| Lot 1 Item 3 | Gas Chromatography Mass Spectrometry (GC/MS) | 2 | ea | MBS | 8 wks |
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1. Technical Specifications

Detailed Technical Specifications and Standards

LOT 1, ItemNo.1 Liquid Chromatography Triple Quadrupole Mass Spectrometer (LC-MSMS)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 1 No1 Liquid Chromatography Triple Quadrupole Mass Spectrometer (LC-MSMS) | | A Bench Top Triple Quadrupole Mass Spectrometer, interfaced to the Liquid Chromatography (HPLC) Including an Automatic Liquid Injector, Compound Spectral Libraries, Computer, Control Software, Installation and Software Training: | M |  |
| Official brochures and information pamphlets, as published by the manufacturer regarding all specifications shall be submitted with the offer. Quoted System to include the following: | M |  |
| 1. Liquid Chromatography (HPLC) 2. Single Multi Injection Mode Inlet 3. Liquid Sampler 4. Sample Tray with > 120 Vial Capacity 5. Triple Quadrupole (MS/MS) Mass Spectrometer 6. Nitrogen Generator for MS/MS Collision Cell 7. Hydrogen Generator for Self-Cleaning Ion Source 8. Control Software 9. Computer, Monitor & Printer 10. Suitable UPSM   Installation and ComMmissioning On-Site Training | M |  |
| General   1. The Liquid Chromatograph, Triple Quadrupole Mass Spectrometer & Control Software must be manufactured by a single vendor to provide seamless control, integration, operation & communication between the HPLC and MS/MS System, with its The Liquid Chromatograph, 2. Triple Quadrupole Mass Spectrometer & Nitrogen Generators must be fully supported & serviced by a single supplier, in order to provide seamless instrument diagnostics, repair, maintenance & support of the entire instrument from a single point of contact/supplier. Proof of Authorised Distributorship Letter should be provided computer. 3. Site preparation documentation must be provided with the tender. 4. On – Site Software/Application Training should be included as part of the offer. This training will be conducted by an application chemist and will cover software operations 5. The system shall be supplied with a complete set of English instruction manuals as required for successful operation and maintenance 6. State warranty period against manufacturer's defects 7. Successful bidder should be able to maintain and supply spare parts for the equipment for at least 10 years from date of purchase. This guarantee needs to be available as a published document and should be included in the bid submission. 8. The supplied system should be certified under the ISO 9001 series. The supplier shall provide manufacture’s ISO 9001 series certificate or its equivalent. | M |  |
| Ion source:   1. The ionization source should support both ESI and APCI. 2. The ionization source should support positive/negative switching. 3. The ionization source should be interchangeable between ESI and APCI in less than 2 minutes, without any tools. 4. The ionization source should be fully replaceable in less than 2 minutes, without any tools. 5. The ionization source should be compatible with flow rates from 1 µL/min to 3 mL/min, without splitting. 6. The ionization source should support user-selectable desolvation temperatures up to 750°C in 1°C increments. 7. The ionization source should be compatible with solvents from 100% aqueous to 100% organic with up to 1% acid or base. 8. The ionization source should have a viewing window for verifying cleanliness and spray integrity 9. The ionization source should have orthogonal spraying for improved robustness. | M |  |
| Mass Spectrometer:  Scan types  Full scan MS and selected ion monitoring for both Q1 and Q3, Product Ion Scan, Precursor Ion Scan, Neutral Loss or Gain Scan, Multiple Reaction Monitoring (MRM), Scheduled MRM (sMRM), Enhanced MS Scan, Enhanced Product Ion Scan, Enhanced Resolution Scan, MS3 scan, MRM3 Scan | M |  |
| Vacuum System   * The instrument must have a differentially pumped vacuum system featuring air-cooled turbo molecular pumps with fail-safe vacuum system protection. It must also automatically shut down and restart after power failures. | M |  |
| Detector   * The instrument must have a detection system capable of rapidly switching between positive and negative ion detection. For improved performance, the detector system combines a high-energy dynode (HED) with a channel electron multiplier (CEM) detector. | M |  |
| Software and Operating system:   1. The system must include a Windows-based data acquisition and editing software package that incorporates a graphical user interface utilizing multi-pane windows for easy data acquisition and analysis. 2. The system must be compatible with a variety of commercially available LC pumps, autosamplers, manual injectors and detectors. 3. The software must provide a tool for adjusting the retention time for acquiring MRM transitions so that only compounds that elute within a specified time window are monitored. In addition, the acquisition method creation process to utilize this feature must accept a simple list of compound names, MRM transitions, and expected retention times and use this list to dynamically schedule MRM scans during the experiment (Scheduled MRM algorithm). 4. The system software must have a Fragmentation Interpretation Tool module. 5. The software must have completely automated quantitative data processing and reporting capabilities. 6. The software must have direct and easy data transfer to popular word processing programs such as MS Word, Excel, Secured PDF, etc 7. The software must be fully automated including customized data processing. | M |  |
| System Performance:   1. Triple Quad mass range: The instrument must have a mass range (m/z) of 5-2000 Da. 2. Triple quad scan speed: The instrument must have a maximum scan speed of 12,000 Da/sec in triple quadrupole mode. 3. Polarity switching: The instrument must be able to switch ionization mode polarity with a 5 msec settling time between polarities. The instrument is able to do this continuously. 4. Dynamic Range: The instrument must have a dynamic range of 6 orders of magnitude from the limit of detection (LOD). The dynamic range is dependent on analyte and experimental conditions. 5. Mass stability: The instrument must have a mass stability of 0.1 Da over 24 hrs at normal operating temperature and after it has reached vacuum and electronics equilibrium. 6. MRM dwell time: The minimum MRM dwell time must be 0.5 msec. 7. MRM acquisition rate: The MRM acquisition rate must be 800 MRM/sec. 8. Positive mode ESI sensitivity: Using the ESI probe in MRM mode on the transition m/z 609 to 195 for a 1 pg reserpine injection on column, at unit mass resolution (0.7± 0.1 Da at half height), the instrument must have a S/N > 5,000,000:1. S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise which produce the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantitation (LOQ) of the MS system or any assay; the S/N ratio presented only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. 9. Negative mode TIS sensitivity: Using the ESI probe in MRM mode on the transition m/z 321 to 152 for a 1 pg chloramphenicol injection on column, at unit mass resolution (0.7± 0.1 Da at half height), the instrument must have a S/N 5,000,000:1. S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise which produce the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantitation (LOQ) of the MS system or any assay; the S/N ratio presented only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. 10. Positive mode reproducibility: Using the ESI probe in MRM mode on the transition m/z 609 to 195, for 10 replicate injections of 0.5 fg of reserpine on column, the standard deviation of the peak area must be less than 10%. The instrument detection limit (IDL) must be less than 0.14 fg. 11. Negative mode reproducibility Using the ESI probe in MRM mode on the transition m/z 321 to 152, for 10 replicate injections of 0.5 fg of chloramphenicol on column, the standard deviation of the peak area must be less than 10%. The instrument detection limit (IDL) must be less than 0.14 fg. | M |  |
| High Performance Liquid Chromatography System (HPLC):  Pump   * Pumping method: Parallel-type double plunger (approx. 10 μL/1 stroke) * Allowable maximum pressure: 15,200 PSI * Flow rate settings range; 0.0001– 3.0000 mL/minute (145 – 15,200 PSI) * 3.0001 – 5.0000 mL/minute (145 – 11,600 PSI) * 5.0001 – 10.0000 mL/minute (145 – 3,190 PSI) * Flow rate accuracy: ≤ ± 1%\*   Flow rate precision: ≤ 0.06% RSD or 0.02 minute SD, whichever greater | M |  |
| AUTOSAMPLER:   * Injection method: Total-volume injection (standard), loop injection (optional) * Allowable maximum pressure: 15,200 PSI * Injection volume: 0.1–50 μL (standard) * Injection volume accuracy: ≤ ±1% (5 μL injection, n = 20) * Linearity ≥ 0.9999 * Sample capacity: 162 (1.5 mL sample vial, 54 x 3 plates) * Injection volume reproducibility: RSD ≤ 1.0% (0.5 to 0.9 μL) * RSD: ≤ 0.5% (1.0 to 1.9 μL), RSD ≤ 0.25% (2.0 to 4.9 μL), RSD ≤ 0.15% (More than 5.0 μL * Carryover: Carryover ≤ 0.0015% (without rinse) ≤ 0.0003% (with rinse, typically) | M |  |
| **COLUMN OVEN:**   * Temperature control type: Forced air circulation * Temperature control range: From 10°C below room temperature up to 100°C * Temperature accuracy: ±0.5°C * Temperature precision: ±0.05°C * Column capacity: Up to 250 mm L. column x 6 or 300 mm L. column x3 | M |  |
| **Peripheral equipment:**   * Gas supplies: Nitrogen generator and air compressor: according to manufacturer recommendations must be included * Exhaust: The instrument must use a vent to remove ion source and rotary vane pump exhaust from the instrument. * UPS: Must include a suitable power back-up for at least 30 min | M |  |
| **Service and Support:**   * Warranty: The LC-MS/MS must come standard with 1-year instrument warranty * Support: Supplier must be able to provide customer support through factory-trained application support specialists and service through factory-trained service engineers (Provide CV for proof). Contact by service and support personal must be provided within 24 hours of a service/support request being logged. * Applications: A minimum of two factory-trained application specialists must be available to assist with training, support of the instrument, software, and methods. Please attach CV’s and training certificates. * Service: A minimum of three factory-trained service engineers must be available to assist with training, after sales support of the instrument and servicing thereof. Please attach CV and training certificates. * Training: The successful bidder must provide at least 3-5 days of system and software training for a maximum of 5 people   Planned Maintenance Contract: The HPLC and Triple Quadrupole Mass Spectrometer must be covered under a Planned Maintenance Contract for a period of 3-years. The Contract must include one annual planned maintenance per year on the HPLC and MS. | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software training and 5 days application Training by a qualified and exper * ienced application chemist on the instrumentation and should cover all aspects of the software and spectral libraries to empower users to be able to set up methods as required by the laboratory. * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 1, Item No.2 High Performance Liquid Chromatography (HPLC)

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| *Item No* | *Name of Goods or Related Service* | *Technical Specifications and Standards* | *Mandatory* | *Technical Specifications and Standards offered by supplier* |
| Lot 1, Item 2 High Performance Liquid Chromatography (HPLC) | | Ultra High Performance Liquid Chromatography System, Computer, Control Software, Installation and Software Training: | M |  |
| **Official brochures and information pamphlets, as published by the manufacturer regarding all specifications shall be submitted with the offer. Quoted System to include the following:**   1. Quaternary Pump 2. Integrated Degassing Unit 3. Automatic Vial Sampler 4. Sample Thermostat/Cooler 5. Column Compartment 6. Diode Array Detector 7. Fluorescence Detector 8. Refractive Index Detector 9. Control Software 10. Computer, Monitor & Printer 11. Suitable UPS 12. Installation and Commissioning 13. On-Site Training | M |  |
| **General**   1. The Ultra High Performance Liquid Chromatography System & Control Software must be manufactured by a single vendor to provide seamless control, integration, operation & communication between the UHPLC & computer. 2. The Ultra High Performance Liquid MChromatography System must be fully supported & serviced by a Single Supplier (who is an Authorized Distributor), in order to provide seamless instrument diagnostics, repair, maintenance & support of the entire instrument from a single point of contact/supplier. Proof of Authorized Distributorship Letter should be provided. 3. Site preparation documentation must be provided with the tender. 4. On – Site Software/Application Training should be included as part of the offer. This training will be conducted by an application chemist and will cover software operations 5. The system shall be supplied with a complete set of English instruction manuals as required for successful operation and maintenance 6. State warranty period against manufacturer's defects 7. Successful bidders should be able to maintain and supply spare parts for the equipment for at least 10 years from date of purchase. This guarantee needs to be available as a published document and should be included in the bid submission. 8. The supplied system should be certified under the ISO 9001 series. The supplier shall provide manufacturer's ISO 9001 series certificate or its equivalent. | M |  |
| **Ultra High Performance Liquid Chromatograph:**  **Pump:**   * Hydraulic System: Dual Pistons in Series * Number of solvent channels: 4 * Flow precision: < 0.07% RSD or 0.01 min. SD * Composition precision: ≤ 0.15% RSD or ≤0.02 min SD * Maximum flow rate: Must deliver a flow rate of up to 5mL/min. * Operation pressure range: up to 130 MPa (1300 bar) at 0-2 ml/min * pH Range: 1.0 — 12.5 * Delay volume: < 350 μL * Composition range: 0 - 100 %, user settable * Flow accuracy: ± 1% or 10 µL/min * Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of seal wear and volume of pumped mobile phase with pre-defined and user settable limits and feedback messages. Electronic records of maintenance and errors. * Extensive diagnostics, error detection and display through software. Leak detection, safe leak handling, leak output signal for shutdown of the pumping system and low voltages in major maintenance areas. * Pressure pulsation: < 1 % amplitude or < 0.5 MPa (5 bar) | M |  |
| **Solvent Rack and Degasser:**   * Integrated Degasser (not a spate unit) with 4 degassing channels * Internal Volume per channel: 1.5 mL | M |  |
| **Autosampler:**   * Sample carryover: < 0.004% (40 ppm) * Precision: typically, < 0.25% RSD * Sample capacity: 132 × 2-ml vials in 1 tray or 2 trays * Injection cycle time: 18s or less * Pressure operating range: up to 1300 bar * Injection volume range: 0.1 – 120 µL * Sample viscosity range 0.2-5 cp * The autosampler design must offer a flow through design with variable injection volume * Integrated sample cooler/thermostat for sample temperature control in the range of 4°C up to 40°C * Early maintenance feedback (EMF) for continuous tracking of instrument with user settable limits and feedback messages. Electronic records of maintenance and errors. * Extensive diagnostics, error detection and display through software. Leak detection, safe leak handling, leak output signal for shutdown of the pumping system and low voltages in major maintenance areas. | M |  |
| **Column Compartment:**   * Up to four columns with 30 cm length and a temperature range from 10°C below ambient to 85°C * Automatic column-identification module as standard for GLP documentation of column type, and major column parameters * Temperature accuracy: ± 0.5 °C with calibration * Independent heat exchangers with settable values facilitate two different temperature zones. * Stackable, self-contained module with solvent resistant material used in all areas which may have contact with the mobile phase. * Must facilitate pre column heating and post column cooling * Temperature range: from 4°C to 110°C * Temperature precision: +/- 0.05 ° C * Temperature stability: ± 0.03 °C or better * Temperature accuracy: ± 0.5 °C or better * Peltier cooling and heating for maximum temperature stability and application flexibility. * Extensive diagnostics, error detection and display through software. Leak detection, safe leak handling, leak output signal for shutdown of the pumping system and low voltages in major maintenance areas. | M |  |
| **Fluorescence Detector:**   * Detection type: Multi-signal fluorescence detector with rapid on-line scanning capabilities and spectral data analysis * Maximum data rate: 148 Hz * Pulse frequency: 296 Hz for single signal mode, 74 Hz for economy mode * The temperature operating range of the instrument must be from 4°C to 40°C. * The detector must be able to acquire spectra (excitation or emission) during the analysis (no stop flow needed) * The instrument must have in single wavelength mode a Raman signal-to-noise of >3000, with Ex350nm/Em397nm and using the dark value at 450nm as reference point, water filled standard flow cell. * Dual wavelength operation: Raman (H2O) > 300 Ex 350 nm, Em 397 nm and Ex 350 nm, Em 450 nm, standard flow cell * Excitation wavelength must be at least 200 – 1200 nm, Emission wavelength must be at least 280 – 1200 nm * Light source: Xenon flash lamp, normal mode (20 W), economy mode (5 W), lifetime 4000 hours. * The lamp can be switched on directly before the analysis so it doesn’t require any warm-up time. * Early maintenance feedback (EMF) for continuous tracking of instrument usage in terms of lamp burn time with user-settable limits and feedback messages. Electronic records of maintenance and errors. Verification of wavelength accuracy, using the Raman band of water. * Extensive diagnostics, error detection and display through software. Leak detection, safe leak handling, leak output signal for shutdown of the pumping system and low voltages in major maintenance areas. | M |  |
| **Refractive Index Detector:**   * Detection type: Refractive Index * Detection index range: 1.00 – 1.75 RIU, calibrated * Measurement range: ±600·10-6 RIU * Optics temperature control: 5 °C above ambient to 55 °C * pH range: 2.3 – 9.5 * Short term noise: <±1.75·10-9 RIU * Drift: <200·10-9 RIU/hr * Time programmable parameters: polarity, peak width * Maximum data rate: 148 Hz * Detector zero: automatic zero before analysis * Extensive diagnostics, error detection and display through software. Leak detection, safe leak handling, leak output signal for shutdown of the pumping system and low voltages in major maintenance areas. * Early maintenance feedback (EMF) for continuous tracking of instrument usage with user-selectable limits and feedback messages. Electronic records of maintenance and errors. | M |  |
| **Diode Array Detector:**   * Detector type: 1024-element diode array * Light source: Deuterium * Number of signals: 8 * Maximum sampling rate: 240 Hz (both spectra and signals) * Short-term noise: < ± 3 x 10-6 AU at 230/4 nm, slit width 4 nm, TC 2 sec, ASTM with 10 mm Max-Light cartridge cell * Drift: < 0.5 x 10-3 AU/hr at 230 nm * Linearity: > 2.0 AU (5 %) at 265 nm Typically 2.5 AU (5 %) * Wavelength range: 190-640 nm * Wavelength accuracy: ± 1 nm, self-calibration with deuterium lines. * Wavelength precision: <± 1 nm * Wavelength bunching: Programmable, 2 - 400 nm, in steps of 1 nm * Data analysis software for spectra evaluation. * Radio frequency identification (RFID) tags for all flow cells and UV lamp provide data traceability by recording parameters such as cell dimensions, lamp usage, serial number etc. * Electronic temperature control (ETC) provides maximum baseline stability and practical sensitivity under fluctuating ambient temperature and humidity conditions. | M |  |
| **Data System & Specifications:**   * Must include a desktop computer from a reputable brand. * The Operating System must be Windows 10 or better. * Must include 21.5+” LED/LCD Monitors. * Must include a Laserjet Printer. * Must include 500 GB hard drive, or better. * Data analysis software must be able to seamlessly process data from existing HPLC Systems, conversion/translation of date from existing HPLC Systems. * Uninterruptible Power Supply: Must include a suitable UPS or UPS’s to provide back-up power to the HPLC for 30 Min | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software training and 5 days application Training by a qualified and experienced application chemist on the instrumentation and should cover all aspects of the software and spectral libraries to empower users to be able to set up methods as required by the laboratory. * After sales support * Must show proof of trained and certified technical service personnel. * Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 1, ITEM No 3 Gas Chromatography Mass Spectrometry (GC/MS)

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 1No 3.Gas Chromatography Mass Spectrometry (GC/MS) | | 1. High sensitivity, broad spectrum analysis, in targeted software 2. Base unit type Trace1610 gas chromatograph: 3. A compact and accessible oven with heating range 125°C/min. and maximum temperature of 450°C 4. Icon-driven touch screen providing immediate and detailed status display 5. With 4 flexible positions to plug-in instant Connect module 6. Auxiliary temperature module, with 8 external events Two iC-ssl instantConnect Split-Splitless injector module 7. Maximum temperature up to 400°C, with heated Split-lines 8. Split programmable from 1:1 to 1250:1 9. integrated Electronic Gas Control, programmable up to 1000 kPa - P&T Kit Included for GAS Injections ISQ 7610 series EI-only mass spectrometer for GC-MS, 10. With: - single quadrupole analyser, mass range 1.2 -1100 amu with 0.4 amu resolution 11. Fast quadrupole scanning up to 20.000 u/s 12. Simultaneous multi-modes acquisition (Scan/SIM/t-SIM) and SmartTune 13. AutoSIM mode for automatic optimal method 14. Inert ExtractaBrite Electron Ionisation (EI) source with dual filaments in all ionisation modes, programmable to 350 °C - patented RF lens embedded in ion source to protect quadrupole from ion burning - triple off-axis DynaMax XR detection system with electronic dynamic range >109 - standard capacity turbomolecular pump 66L/s | M |  |
| **Computer Requirements**  Operating system: PC – Windows 7, 8.1 or 10 (32-Bit or 64-Bit)  PC: Graphic resolution 1280 x 1024 pixels or higher, mouse / trackball 2 USB 2.0 interface.  A monitor  A printer | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software training and 5 days application Training by a qualified and experienced application chemist on the instrumentation and should cover all aspects of the software and spectral libraries to empower users to be able to set up methods as required by the laboratory. * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 1, ITEM No : 4 Spectrophotometer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 1, Item No 4 Spectrophotometer | | 1. Mode: Energy absorption Monochromator with imaging grating and aspheric quartz coated optics. Internal holmium oxide filter. 2. Optical design: Modified Ebert Double beam with sample and reference cuvette/ accessory position 3. Wavelength range: 190–1100 nm 4. Spectral Bandwidths: Variable 0.5, 1.0, 1.5, 2.0, 4.0nm 5. Light Source: Combination of halogen and deuterium lamp. Lamp change can be set to occur between 300 and 450 nm. 6. Detector: Two photo diode detectors. Cooled by Peltier element. 7. Sample position: Designated sample position for turbid samples. Wide range of accessories for optimized solid, liquid and gas sample positioning. 8. Spectral bandwidth: 1.4 nm 9. Spectral resolution capability Toluene/Hexane at 20-25 °C: 1.6 - 1.8 10. Wavelength accuracy (Deuterium line at 656.1 nm): ±0.1 nm 11. Wavelength accuracy (at 360.9 nm with holmium oxide filter) \*: ±0.5 nm 12. Wavelength reproducibility (at 360.9 nm with holmium oxide filter, RM): ≤0.02 nm 13. Zero point of transmission:  * ±0.05 % T * (200-1000 nm; * Slit 1.4 nm)  1. Photometric accuracy VIS in absorbance (at 546 nm with neutral glass filter): ±0.003 2. Photometric accuracy UV in absorbance (potassium dichromate): ±0.01 3. Photometric reproducibility in absorbance (at 546 nm with neutral glass filter): ≤0.0005 4. Baseline noise at 500 nm in absorbance: ≤0.0001 5. Baseline deviation in absorbance:  * ±0.0005 * (200–1000 nm * Slit 1.4 nm)  1. Long-term stability at 500 nm in absorbance: ±0.0005 1/h 2. Registration speed: Up to 12000 nm/min 3. Minimum integration time: 0.001 s 4. Minimum data interval: 0.02 nm 5. Stray Light:  * 198 nm (KCl) \*\*: ≤0.3 % T * 220 nm (Nal): ≤0.03 % T * 240 nm (Nal): ≤0.03 % T * 340 nm (NaNO2): ≤0.02 % T  1. Baseline flatness  * 0.0005 * 200–1000 nm; * Slit 1.4 nm)±  1. Software: Should have a compatible software. 21 CFR Part 11 Software Module capability. Validation Software Modules – USP, Eur. Ph. Capability. 2. Computer Requirements:  * Operating system: PC – Windows 7, or higher. * PC: Desktop PC, Tower or Laptop; min Intel Pentium 4, 1 GB RAM, 20 GB HDD; CD ROM; USB 2.0; VGA 16-bit, 1024 x 768, 17" Color monitor; Windows-compatible printer.   Electricity Supply: 100-240V, 50-60HZ | M |  |
| **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. |  |  |

LOT 2, ITEM No 1. MALDI TOF Mass Analyzer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 2 No 1 MALDI TOF Mass Analyzer | | **GENERAL**  A high sensitivity, bench top hybrid triple quadrupole - Linear Accelerator mass spectrometer designed for LC-MS/MS analyses. The instrument should provide a combination of Linear Accelerator Trap and triple quadrupole functionality, uniquely allowing both qualitative and quantitative analyses to be carried out in a single experiment. | M |  |
| **Mass Spectrometer:**   1. Analyzer: The instrument contains a single narrow aperture from the atmosphere into the vacuum chamber, an ion guide followed by a high-pressure RF quadrupole and a quadrupole mass filter. A prefilter is located between the RF quadrupole and the first mass filter to help further focus the ions. A ECD cell and high- pressure quadrupole collision cell with suitable collision cell technology follow the first mass filter and is used for high efficiency CID and EAD MS/MS fragmentation. 2. The second mass analyzer is a high-performance N-optic TOF analyzer with an effective flight path of approximately 2.0 meters, comprised of a 21 kHz pulser with 6 kV acceleration voltage. The TOF analyzer consists of a single accelerator and dual 2-stage reflectors. The N-optics TOF is equipped with 6 separate temperature stabilization drone heaters. 3. Scan types: The instrument supports full-scan MS and MS/MS or production scans, Q1 scans, with fixed or variable windows, MRM and IDA/DDA. 4. Fragmentation modes: The instrument contains an EAD cell and a high-pressure quadrupole collision cell. The instrument can switch between EAD and CID through user selection 5. EAD is user-selectable with the following scan types: full-scan MS/MS, MRMHR, IDA/DDA and SWATH DIA. 6. **Interface:** The instrument includes a direct atmosphere-to-vacuum interface module with a curtain gas barrier for maintaining analyzer cleanliness and optimizing ion declustering. It is capable of analyzing large batches of complex samples over long periods of time without maintenance or performance degradation. 7. Vacuum system: The instrument includes a differentially pumped vacuum system featuring air- cooled turbo molecular pumps with fail-safe vacuum system protection. Note: It will automatically shut down and restart after power failures. 8. Detector: The detector has pulse measurement capabilities with a 4-anode enhanced dynamic range microchannel plate detector and a 5 GHz, 10-bit analog-to-digital converter (ADC) with 40 GHz time-to-digital converter (TDC) timing. It has timestamps of the leading digital pulses that are recorded with a single-shot time resolution of 26 ps.The detector is mounted to a 2-axis motion stage that allows for complete alignment of the 4 anodes within the detector. 9. Source exhaust The instrument has an active source exhaust for the removal of gases within the ionization source. 10. System performance:  * Mass range: TOF Mass range of up to 40 kDa. * The precursor ion selection has a mass range: (m/z) of 5–2,250 Da. * Scan speed TOF MS: Maximum scan speed of up to 25 Hz (25 spectra per second). * Scan speed TOF MS/MS: Maximum scan speed of up to 133 Hz (133 MS/MS spectra per second). * Mass resolution: Mass resolution of ≥42,000 (FWHM) measured on the (M+6H)6+ charge isotope cluster for bovine insulin at m/z 956. * MS/MS duty cycle: The instrument contains a Zeno trap that allows a ≥90% duty cycle for TOF MS/MS acquisition. The Zeno trap is available for full-scan MS/MS, MRMHR, Zeno SWATH DIA and IDA/DDA. * MS/MS scan speed SWATH DIA: The instrument offers a maximum scan speed of up to 200 MS/MS scans per cycle in data independent mode (DIA) or with Zeno SWATH DIA for both fixed window and variable window methodologies. * Polarity switching The instrument can switch ionization modes within a sample batch. * Linear dynamic range (LDR) positive: The instrument delivers a dynamic range of ≥5 orders of magnitude from the limit of detection (LOD) without a signal reduction for both TOF MS and TOFMS/MS. The dynamic range is dependent on analyte and experimental conditions. * Linear dynamic range (LDR) negative: The instrument delivers a dynamic range of ≥5 orders of magnitude from the limit of detection (LOD) without a signal reduction for both TOF MS and TOF MS/MS. The dynamic range is dependent on analyte and experimental conditions. * Intra-scan dynamic range: The instrument delivers an intra-scan dynamic range of up to 4 orders of magnitude. * Mass accuracy, external: Mass accuracy of ≤2 ppm RMS over 12 hours of LC-MS acquisition time * Mass accuracy, internal: Mass accuracy of ≤0.2 ppm absolute error as demonstrated on the m/z 813 fragment ion of Glu-Fibrinopeptide B. * Mass accuracy of ≤0.5 ppm absolute error as demonstrated on the m/z 120 fragment ion of Glu-Fibrinopeptide B. * Mass accuracy: internal positive and negative mode Mass accuracy of <0.5 ppm RMS error of all peaks combined, when the spectrum has been internally calibrated over a mass range of m/z 100–2,000. * Temperature stability: Operating range of 15°C to 30°C held at constant temperature. Steady 0.5 ppm mass accuracy RMS within <2C variations from calibration. * Positive mode TOF MS ESI sensitivity: S/N ≥2,500:1 Using the ESI probe in full-scan TOF MS mode with a MEW of 10 mDa for m/z 609.2806 for a 1 pg reserpine injection on column. * measurements are calculated based on 1 standard deviation of at least 3 points of noise, which produces the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantification (LOQ) of the MS system or any assay. The presented S/N ratio only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. * Positive mode TOF MS/MS ESI sensitivity S/N ≥400:1: Using the ESI probe in full-scan MRMHR mode with a MEW of 10 mDa for the transition m/z 609 to m/z 195.0651 for a 50 fg reserpine injection on column, with precursor isolation at unit mass resolution (0.7 ± 0.1 Da at half height). S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise, which produces the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantification (LOQ) of the MS system or any assay. The presented S/N ratio only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. * Negative mode TOF MS sensitivity: S/N ≥1,000:1: Using the ESI probe in full-scan TOF MS mode with a MEW of 10 mDa for m/z 321.0050 for a 100 fg chloramphenicol injection on column. S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise, which produces the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantification (LOQ) of the MS system or any assay. The presented S/N ratio only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. * Negative mode TOF MS/MS sensitivity: S/N ≥1,500:1: Using the ESI probe in full-scan MRMHR mode with a MEW of 10 mDa for the transition m/z 321 to m/z 152.0350 for a 100 fg chloramphenicol injection on column, with precursor isolation at unit mass resolution (0.7 ± 0.1 Da at half height). S/N measurements are calculated based on 1 standard deviation of at least 3 points of noise, which produces the smallest standard deviation, after applying up to 3 Gaussian smooths. The S/N ratio does not imply the limit of detection (LOD) or limit of quantification (LOQ) of the MS system or any assay. The presented S/N ratio only applies to the conditions and concentrations specified and cannot be extrapolated to any other conditions and concentrations. * EAD electron energy: The instrument contains a user-tunable electron-based fragmentation mode operating at electron energies from 0 eV to 25 eV. * Scan modes supported by EAD The instrument supports full-scan TOF MS/MS, MRMHR, SWATH DIA and IDA/DDA scan modes with EAD. | M |  |
| **Turbo ion source**   * 1. Functionality * The ion source is a low-flow source with probes and electrodes designed for minimal sample consumption and the highest sensitivity at flow rates from 100 nL/min to 200 μL/min. It requires no tools and no physical adjustments. The probes/electrodes have pre- optimized locations and are changed to achieve different flow ranges. The system has the option of 3 probes (for flow ranges between 100–1,000 nL/min, 1–50 μL/min and 50–200 μL/min) and 4 electrodes (for flow ranges between 100–1,000 nL/min, 1–10 µL/min, 10–50 µL/min and 50–200 µL/min). Column heaters for micro columns (up to 15 cm in length) and nano columns will provide heating up to 90°C. * The ion source is resistance-coded for automated identification by firmware/software. * The ion source has flow rate compatibility from 100 nL/min to 200 μL/min without flow splitting. * The solvent compatibility is from 100% aqueous to 100% organic and 1% acid/base. * The ion source has over temperature protection (OTP) device(s) that cut power to any of its heating device(s) with the capability to cause accessible surfaces of the ion source to exceed 105°C at an ambient temperature of 40°C in single fault condition. * The ion source has user-selectable ionization voltage from -4.5 kV to +5.5 kV. The OptiFlow Turbo V ion source operates in positive and negative electrospray mode. * The ion source allows users to remove it from a mass spectrometer without using any tools. * The ion source housing is fully interlocked. All gas and power supplies to the source are automatically shut down when the housing is removed from the host system. * The ion source has at least 3 viewing windows through which a user can view the probe tip. * The ion source interface with the mass spectrometer system provides protective grounding to the system’s protective ground terminal in accordance with the IEC 61010-1:2010 standard (3rd edition). * The ion source is stable when removed from the instrument and placed on a flat surface, without external aid, with the same orientation at which it is attached to the mass spectrometer. * The ion source allows the system to recognize the correct probe when inserted into the source. * The ion source offers 4 different electrode options: 100–1,000 nL/min with a 20 µm ID glass electrode, 1–10 µL/min with a 25 µm ID glass electrode, 10–50 µL/min with a 50 µm ID glass electrode and 50–200 µL/min with a 50 µm ID stainless steel electrode. * The ion source allows the system to recognize uniquely identifiable probes. * The ion source offers an option to perform automated mass calibration through the built-in CDS via a dedicated micro calibration probe. * The probe and electrode design ensure that when installed, the electrode protrusion is 1.0 ± 0.1 mm from the probe tip for nano, micro and analytical probes. * The ion source has 2 probe heaters that operate within a temperature setpoint range of 0°C to 750°C. * The probe heaters operate with a compressed air supply setting within a pressure range of 0–75 psi. * The ion source column heaters heat from ambient +5°C to 90°C within 25 minutes. * The column heaters are controlled by the mass spectrometry control system. * In the micro column heater, the temperature gradient is less than 8°C along the length of a 15 cm column. * The micro column heater ramps from 30°C to 60°C and settles within the required stability and accuracy within 15 minutes. | M |  |
| **Software and operating system**  **Data system**   * The system includes a Windows-based data acquisition and editing software package that incorporates a graphical user interface utilizing multi-pane windows for easy data acquisition and analysis. * The system is compatible with a variety of commercially available LC pumps, autosamplers and detectors. * The system is capable of easy, automated optimization of quadrupole and TOF calibration and resolution as well as optimized detector settings. * The system has dynamic background subtraction (DBS) to minimize the collection of MS/MS on background ions to increase the identification of low-level analytes in the presence of background noise. * The system has multiple mass defect-triggered information/data dependent acquisition (IDA or DDA) to improve efficiency and reduce the need for multiple injections to get comprehensive information. * The system can acquire high-quality MS/MS spectra generated for all masses over a specified range. A resolving Q1 window is stepped across a mass range and a high-resolution accurate mass MS/MS spectrum is obtained at each mass step. The system is able to acquire up to 200 windows per cycle, and the window width can be variable, as defined by the user. Combined with high-resolution TOF-MS data, this workflow enables the acquisition of MS and MS/MS spectra of all detectable analytes. * The system is capable of reagent optimization that automatically adjusts the collision energy settings specific for reagent-labeled samples to ensure a good ion signal is achieved for the reporter ions for high-quality quantitative results. * The system has automated batch calibration to maintain mass accuracy during long runs by automatically calibrating the system. Automated batch calibration is available for use with the Twin Spray source and the ion source bundle for microflow rates. * The system can apply a maximum spread of collision energy (CE) of 50 V for achieving informative MS/MS spectra averaged over a range of fragmentation energies. * The software provides e-signature and audit trail tools available to help organizations achieve 21 CFR Part 11 compliance. * The software performs real-time analyses and corrective actions while acquiring samples. | M |  |
| **Data processing software**   * The system software offers powerful quantification algorithms. * The system software offers a variety of quantification algorithms to choose from. * The system software provides a powerful library generation and search capabilities (for example, searches based on mass spectra at different fragmentation voltages and different polarities). * The system has software to facilitate the implementation of automated searching of accurate mass MS, isotope patterns and assigned elemental formulas with online databases. * The system software is able to generate a contour plot display for mass and UV spectra. * The system software contains a fragmentation interpretation tool module. * The system software offers completely automated quantitative data processing and reporting capabilities. * The system software offers direct and easy data transfer to popular word processing programs such as Microsof Word, Microsoft Excel and PDF. * The system software is fully automated, including customized data processing. * The system software can flag and filter results to automate data review. * The system software is capable of processing data-independent MS/MS data for the quantification of extracted ion chromatograms based on the input of a spectral library. * The system software can transfer results to LIMS systems such as Watson LIMS. * The system software contains tools that enable MS and MS/MS mass deconvolution with data types in both positive and negative polarities. * The accompanying processing software allows the direct import of .txt and .mol files for data interpretation purposes. | M |  |
| **Physical specifications**  Size and weight (excluding roughing pumps)   * Height Width Length Weight * Crate: 131.5 cm (51.75inches) 85 cm (33.5 inches) 154 cm (60.7inches) 364.5 kg (803.6 lbs) * Mass spectrometer: 112 cm (44 inches) 67 cm (26.3 inches) 142 cm (55.9 inches) 206 kg (454 lbs) * Roughing pump: 26.4 cm (10.5inches) 35 cm (14 inches) 66 cm (26 inches) 65 kg (143 lbs) * Mass spectrometer bench (optional) 76 cm (30 inches) 79 cm (31 inches) 152 cm (60 inches) 85 kg (187 lbs) * Computer bench: (optional) 76 cm (30 inches) 79 cm (31 inches) 92 cm (36 inches) 75 kg (165 lbs) * Power The instrument can be powered by branch circuits for the mass spectrometer and the roughing pump should be 15 A, 200–240 VAC (typical 208 VAC) and 50 Hz or 60 Hz. * Power consumption The power consumption for the mass spectrometer and the roughing pump is 5,890 VA (50 Hz or 60 Hz) at 230 VAC. The mass spectrometer requires 2,640 VA and the roughing pump requires 3,360 VA. * Gas supplies: Gas and purity * Pressures: Max flow rates * Curtain Gas: interface/CAD gas Ultra-high purity (UHP) N2 (99.999%) 60 psi (4.14 bar) min to 65psi (4.42 bar) max Maximum rate of consumption 17 L/min * Exhaust: The instrument uses a vent to remove ion source and rotary vane pump exhaust from the instrument. | M |  |
| **Lab Environment:**  To ensure the proper operating conditions for the instrument, the environmental conditions to be maintained between 15°C and 30°C (59°F to 86°F), with stability within ±2°C (3.6°F) and a relative humidity between 20% and 80% non-condensing. The air conditioning requirement is approximately 15,600 Btu/h for the main console, roughing pumps and heat load from the ion source. |  |  |
| **PHYSICAL SPECIFICATIONS**  Power The instrument must be powered by two separate 208 VAC (180 to 264 VAC), 15 amp grounded single phase circuits with two receptacles each.   * Power consumption: The instrument, including the roughing pump, must only consume 2,200 VA maximum. * Gas supplies: High purity nitrogen at 60 PSI (maximum consumption of 10 L/min at 60 PSI) must be used for the gas flow for the Curtain Gas interface. Zero grade air or high purity nitrogen should be used for the ion source. Maximum combined consumption must be 22 L/min at 100 PSI. Filtered, dry air (free from oil) at 55 PSI must be used for the ion source exhaust pump (with a typical consumption of 8 L/min)   Exhausts: The instrument must use a vent to remove ion source and rotary vane pump exhaust from the instrument. | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software training and 5 days application Training by a qualified and experienced application chemist on the instrumentation and should cover all aspects of the software and spectral libraries to empower users to be able to set up methods as required by the laboratory. * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

**LOT 2, ITEM No2 :** **Drying oven**

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| Item No | Name of Goods or Related Service | | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
|  | | **Lot 2 Item No.2Drying oven** | 1. Sample Drying Oven for Fire Assay 2. 2000x1260x2260 mm Stainless Steel1) body & trolley all SUS304 material2) estimated size: 2000\*1220\*2260mm (W\*D\*H)3) 3. Temperature range: RT-150℃4) two trolleys, trolley size is around 700\*950\*1300mm(W\*D\*H)5) independent control cabinet   50 to 300°C, uniformity ±1%, 150-liter capacity, programmable controls | M |  |

LOT 2, ITEM 3: Water Distiller

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| **Lot 2 No.3 Water Distiller** | | 1. Reliable ultrapure water up to 18.2 megohm cm 2. Real-time monitoring of the TOC content 3. Clear display shows all important information 4. Data acquisition via USB interface for quality assurance 5. Quick and easy disinfection 6. intuitive operation 7. Ergonomic Multi-Function Dispenser 8. Height adjustable and flexible takeout 9. Table or wall installation possible 10. Flexible water supply (including variable flow up to 2 l / min and automatic extraction of volume to 60 liters) 11. Booster without 12. Power: 2 I/min 13. UV-Modules 14. With Storage tank 15. Water treatment type: pure water system ultrapure water system   Water source: of ion exchange from reverse osmosis system. | M |  |

LOT 2, ITEM 4: Hawksley Haematocrit Centrifuge

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 2 Item No.4 Hawksley Haematocrit Centrifuge | | **Technical specifications:**   1. **Speed:** 11,800rpm with 24- place rotor 2. **RCF:** 14,000g with 24-place rotor 3. **Acceleration:** 0-11,800rpm in 60 seconds, with 24-place rotor 4. **Brake:** Automatic 5. **Noise:** 62dB running with 24-place rotor 6. **Motor:** High precision AC/DC series wound motor, brush gear, computer wound coil winding, balance armature and high speed bearings. 7. **Timer:** 0-15-minute timer, graduated in 1 minute increments. Automatic switch at zero 8. **Weight:** 5.1Kg net (without rotor) 9. **Dimensions:** 23.5cm height x 27cm diameter, footprint 16cm diameter 10. **Construction:** Aluminium casing with a steel lid   **Finish:** Body cream white baked enamel, with matt black baked enamel lid | M |  |

LOT 2, ITEM No 5: Cooled incubator

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 2, No.5 Cooled Incubator | | **Temperature Control**   * **Temperature Range**:   + **0°C to 80°C**, suitable for both cooling and heating applications. * **Temperature Uniformity**:   + ±0.1°C, ensuring consistent conditions throughout the incubator chamber. * **Cooling Technology**:   + **compressor-based cooling** for precise temperature control down to **4°C**. * **Heating Technology**:   + High-efficiency **Peltier heating elements** for rapid and accurate temperature increases. | M |  |
| **Capacity and Size**   * **Chamber Capacity**:   + **300 liters**. * **Internal Dimensions**:   + Depends on the model, with larger units offering increased chamber space for multiple cultures. * **Shelving**:   + Adjustable stainless steel shelves to maximize usable space for different types of labware (e.g., culture flasks, petri dishes, etc.). | M |  |
| **Control and User Interface**   * **Control Panel**:   + Digital display for easy monitoring and control of temperature settings. * **Programmable Settings**:   + Allows for programmable temperature ramps and holds for complex incubation protocols. * **Timer Function**:   + Timer for scheduled incubation with an automatic shut-off at the end of the run. * **Alarm System**:   + Visual and audible alarms for temperature deviations and door openings. | M |  |
| **Environmental Conditions**   * **Humidity Control**:   + Optional humidity control module available for precise regulation of relative humidity. * **CO₂ Control** (Optional):   + Available with a CO₂ control feature for cell culture applications, allowing for CO₂ levels between **0 to 20%**. | M |  |
| **Physical Specifications**   * **External Dimensions:**   + Approximately 26 x 29 x 34 inches (66 x 73 x 86 cm) depending on the specific model. * **Weight:**   + Ranges from 120 to 180 lbs (54 to 82 kg), depending on model and size. * **Material:**   + Interior: Stainless steel for corrosion resistance and ease of cleaning.   + Exterior: Powder-coated steel for durability in lab environments. | M |  |
| **Power and Electrical Requirements**   * **Power Supply:**   + 220-240V AC, 50/60 Hz or 110-120V AC, 50/60 Hz, depending on region. * **Power Consumption:**   + Typically, 400-700 watts depending on the specific model and conditions**.** | M |  |
| **Refrigeration System**   * **Compressor:**   + **Hermetically sealed compressor for cooling performance.** * **Refrigerant:**   + **Uses CFC-free refrigerants, compliant with environmental standards.** | M |  |
| **Maintenance and Support**   * **Warranty**:   + Typically comes with a **2-year warranty** covering parts and labor. * **Maintenance**:   + Low maintenance requirements with an easy-to-clean chamber. * **Calibration**:   + Annual calibration recommended for temperature accuracy. * **Technical Support**:   + Supported globally by Eppendorf with troubleshooting, repair, and calibration services. | M |  |
|  | | **Optional Features**   * **Shaking Capability** (Innova® 42/42R Models):   + Can be equipped with an orbital shaker, offering speeds between **25–400 RPM**, for shaking cultures during incubation. * **Remote Monitoring**:   + - Some models offer remote data logging and monitoring capabilities via computer or mobile devices. | M |  |

LOT 2, ITEM No: 6 Incubators (incl. double door)

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 2, Item No: 6 Incubators (incl. double door) | | 1. Capacity (L): 1250 litres 2. Door Type: Dual door design 3. Temperature range (ºC): ambient + 8 to 70ºC 4. Fluctuation: +/-0.25ºC @ 37ºC 5. Resolution: 0.1ºC  * On screen historical trending 48 hours * 8 Stage profile control 48 hours * Count down timer * 24/7 real time clock operation * Manual or automatic overheat reset * High accuracy Pt100B duplex sensors &lt;0.8ºC * Fan assisted circulation * Excellent stability &lt;+/-0.6ºC * Low chamber uniformity * Energy efficient with integral energy meter   New - Set point lock feature | M |  |

LOT 3, ITEM No 1. Quantitative PCR (qPCR) Machine

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3 Item No.1 Quantitative PCR (qPCR) Machine | | **Applied Biosystems QuantStudio 7 Flex Real-Time PCR System Specifications**   1. **General Information**    * **Brand**: Applied Biosystems (by Thermo Fisher Scientific)    * **Model**: Quant Studio 7 Flex    * **Application**: Designed for high-throughput, real-time PCR (qPCR) applications including gene expression analysis, genotyping, copy number variation (CNV), microRNA analysis, mutation detection, and protein quantification. | M |  |
| **System Capabilities**   * + **Detection Chemistry**:     - Compatible with **TaqMan® probes** and **SYBR® Green** dyes, allowing flexibility for different assay types.   + **Multiplexing**:     - Supports up to **6 targets per well** with a 6-color optical detection system, enabling high-throughput multiplexing.   + **Interchangeable Block Formats**:     - Available with **96-well, 384-well**, and **TaqMan Array cards**, as well as **Fast 96-well** blocks for various throughput needs. | M |  |
| **Optical System**   * + **Excitation Source**:     - High-intensity **LED excitation**.   + **Detection Method**:     - Photodiodes for detection across a wide range of fluorescence wavelengths.   + **Wavelength Range**:     - Excitation: 450–670 nm.     - Emission: 500–730 nm.   + **Dye Calibration**:   Pre-calibrated for a wide variety of dyes, including FAM™, VIC™, SYBR® Green, NED™, TAMRA™, and others | M |  |
| **Sensitivity and Dynamic Range**   * + **Sensitivity**:     - Capable of detecting as little as **1 copy** of target DNA.   + **Dynamic Range**:     - Linear dynamic range of **10 logarithmic units**, ensuring precise quantification across a wide concentration range. | M |  |
| **Throughput and Capacity**   * + **Sample Capacity**:     - Supports up to **384 samples** per run (depending on the block configuration).   + **Reaction Volume**:     - 96-well block: 10–30 µL.     - 384-well block: 5–20 µL.     - TaqMan Array card: 1–10 µL.   + **Fast Mode**:     - Fast 96-well block allows run times as short as **30 minutes**. | M |  |
| **Software and Data Analysis**   * + **Software**:     - **QuantStudio™ Design and Analysis Software** for intuitive assay design, data collection, and advanced data analysis.   + **Data Export**:     - Export options include .xls, .txt, and .csv files for easy integration with external analysis tools.   + **Advanced Features**:     - Includes high-resolution melt (HRM) analysis for detecting small sequence variations, as well as CNV and SNP genotyping analysis.   + **Automation Compatibility**:     - Can be integrated with automation systems for high-throughput workflows in large labs. |  |  |
| **Physical Specifications**   * + **Dimensions**:     - **28 x 53 x 53 cm** (11 x 21 x 21 inches).   + **Weight**:     - **45 kg** (99 lbs), compact design to fit in most lab setups.   + **Display**:   Built-in LCD touchscreen for intuitive control and monitoring | M |  |
| **Power and Electrical Requirements**   * + **Power Supply**:     - 100–240V AC, 50/60 Hz, universal power supply.   + **Power Consumption**:     - Typically, **750W** during operation.   **Environmental Specifications**   * + **Operating Temperature Range**:     - **15 to 30°C** (59 to 86°F).   + **Humidity**:     - **20 to 80% RH**, non-condensing. | M |  |
|  | | **Maintenance and Support**   * + **Warranty**:     - Typically comes with a **1-year warranty**, with options for extended service plans.   + **Calibration and Maintenance**:     - Minimal maintenance required, with annual calibration recommended for optimal performance. | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software training and 5 days application Training by a qualified and experienced application personnel. After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3, ITEM 2: Digital Droplet PCR (ddPCR) System

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| **Lot 3 No.2 Digital Droplet PCR (ddPCR) System** | | 1. Ultra-high sensitivity, precise quantification, no standard curve necessary, 20,000 droplets per sample 2. Digital PCR allowing you to sequentially run Chip Plates of 48 samples each. 3. **Sample throughput**  * Supports a high-throughput capacity of 384 samples processed per 8-hour workday.  1. Configurations  * Remote access * Simplest dPCR workflow, 5 min hands-on time / 2h30 min time-to-results * Highest multiplexing capabilities, 7-colors detection * Seamless assay transfer from across the ™ Digital PCR range  1. Thermocyclers  * Multiple plates loading, * Random access * 1 to 8 plates / run * Up to 384 samples / run   24 PCR programs / run | M |  |
| **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3, ITEM 3: Thermo cycler-Electrophoresis Machine

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3, item No.3 Thermo cycler-Electrophoresis Machine r | | **Integrated system, fast ramp rates, multiple sample capacity, automation for PCR setup to gel documentation Max Temperature (° C)100:**  · Min Temperature: (° C)10  · Temperature Accuracy: 50⁰C: ±0.25⁰C  · Max Gradient: (° C)29  · Min Gradient: (° C)1  · Max Heating Rate: 3.4⁰C per second  · Heated Lid Temperature: 35 to 115⁰C, or off  · Heated Lid Pressure: Adjustable  · Number of Blocks: 2  · Block Uniformity Block at 55⁰C: ±0.3⁰C  · Block Description Two: 384-well plates  · Memory:1000 programs max  · Output USB: port  · Auto Restart On Power Failure Yes  · Height: (in)21 1/16  · Width: (in)18 1/2  · Depth: (in)13  · Height (cm):53.5  · Width (cm):47  · Depth (cm):33  · Power (VAC):100 to 240  · Power (Hz):50/60  · Description Thermal Cycler, Dual 384-Well Capacity: 100-230 VAC   * Warranty:3 Years | M |  |
|  | | **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training. Offer must include 3 working Days On-Site Software/Application Training by a qualified and experienced application personnel. * After sale support * Must show proof of trained and certified technical service personnel who are based locally.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3 ITEM 4: ELISA Reader

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3 Item No.4 ELISA Reader | | **Technical specifications**   1. Software: Gen 5 2. Wavelength: 400 to 750 nm (UV optional) 3. Measurement range: 0 to 4.0 OD (normal and rapid read modes); 0 to 3.0 OD (sweep read mode) 4. Filter wheel capacity: 5 positions 5. Filter arrangements: 405, 450, 490 and 630 nm (UV option) 6. Microplate types: 6- 96 well 7. Throughput: from 18 to 73 seconds for a 96 well plate (depending on reading mode and number of wavelengths) 8. Light source: Tungsten 9. Power supply: external 24V, compatible with 100-240 V, 50 to 60 Hz 10. Connectivity: 1 USB port for computer control, 1 USB port for printer and 1 USB port for data storage 11. Working temperature: 18 to 40°C 12. Working humidity range: 10 to 85% non-condensing | M |  |
| **Dimensions**   1. Dimensions: 419 mm x 381 mm x 178 mm 2. Weight: not less than 10 kg | M |  |
| **Supplies**   1. Power cord 2. Power supply 3. Operator's manual 4. USB cable 5. Blank USB flash drive 6. Dust cover 7. Software | M |  |
| **Instruction for use**   1. It must have an instruction manual for use 2. Protect from dust | M |  |
| **Storage conditions**   1. Storage temperature: -25 to 50°C  * Storage relative humidity: 10 to 80% non-condensing | M |  |

LOT 3, ITEM No: 5: Magnifying Floor Lamp

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3, Item No. 5 Magnifying Floor Lamp | | **Specifications**   1. Three-in-one magnifying lamp: floor magnifier table magnifier and task lamp. 2. Height: Adjustable to either 125cm or 50cm. 3. Magnetically attached lens cover. 4. Large semi-rimless magnifying lens. 5. Three brightness levels so you can adjust the brightness to the task at hand. 6. Flexible arm directs the magnifier head exactly where you need it. 7. Product colour: White/grey. 8. Base: 24cm] diameter. 9. Maximum reach: 60cm. 10. Cable length: 1.8m. 11. Weight: 3.4kg. 12. Bulb lifespan: Up to 50 000 hours. | M |  |
| **Magnifier specification**   1. 1.75× (3.0 dioptre) magnification. 2. 13cm diameter lens. | M |  |
| **Light output**   1. Light source: LED. 2. Brightness levels: Three. 3. Lumens: Up to 600. 4. Lux: Adjustable – 5 500 3 500 or 1 500 lux at 15cm. 5. CRI: 95+. 6. Color temperature: 6 000k (daylight white light). 7. Power consumption: 7W.   **Daylight specification**   1. Comfort: With a full spectrum, fresh at the end of the day! Reducing eye strain avoids headaches and red eyes. 2. Vision: reading lamps must have a colour temperature that maximizes contrast and clarity with minimal glare; these features are vital for people with low vision. 3. Low heat: Even if you touch the shade or bulb of this lamp by accident you will be safe. The product must use low-heat technology for ultimate comfort and safety. 4. Energy saving: lamps use 80 percent less energy and have a light source that will last at least 10 times longer than bulbs in standard lamps. 5. Ease of use | M |  |
| **Warranty**   1. Two-year manufacturer’s warranty.   **note:** sighted assistance may be required to assemble the lamp and adjust its height | M |  |

LOT 3, ITEM No 6: Advanced Confocal Microscope

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3 Item No 6 Advanced Confocal Microscope | | 1. **Application**: High-resolution confocal imaging for biological and material sciences applications, including live cell imaging, fluorescence microscopy, and 3D imaging. | M |  |
| 1. **Optical Specifications**    * **Objective Lenses**:      + Plan-Apochromat objectives ranging from 5x to 100x.      + Oil, water, and dry immersion options.    * **Magnification Range**: 1.25x to 100x depending on the objective lens.    * **Numerical Aperture (NA)**: Up to 1.4 with 100x oil objective.    * **Z-Resolution**: Submicron (down to 0.5 μm).    * **Working Distance**: Varies based on objective (from 0.13 mm to 2.2 mm). | M |  |
| 1. **Laser and Fluorescence Capabilities**    * **Laser Lines**:      + UV lasers (405 nm).      + Visible lasers (488 nm, 514 nm, 561 nm, 594 nm, 633 nm).      + Optional tunable white light laser (470 nm to 670 nm).    * **Fluorescence Detection**: Up to 5 simultaneous channels.    * **Photodetectors**:      + Hybrid (HyD) detectors for high sensitivity.      + PMT (Photomultiplier tube) detectors for standard fluorescence imaging.      + Up to 8 spectral detectors available.    * **Emission Range**: 400 nm to 800 nm.    * **Spectral Resolution**: 1 nm steps, fully tunable. | M |  |
| 1. **Imaging and Scanning System**    * **Scanner**:      + Bidirectional, resonant scanner for fast image acquisition (up to 16,000 lines/second).      + Conventional galvanometric scanner for high-resolution imaging.    * **Scanning Modes**:      + XY, XYZ, XYT (time-lapse), XYλ (spectral imaging), XYZλ (3D spectral imaging).      + FRAP, FRET, FLIM, and photoactivation capabilities.    * **Field of View**: 22 mm diagonal field of view.    * **Image Resolution**:      + XY resolution: Up to 8192 x 8192 pixels.      + Z resolution: Adjustable depending on optical section thickness. | M |  |
| 1. **Live Cell Imaging Capabilities**    * **Environmental Control**:      + Integrated incubator for temperature, CO₂, and humidity control for live cell imaging.      + Compatible with motorized stages for time-lapse and multi-position imaging.    * **Image Stabilization**: Drift compensation system for long-term live-cell imaging.    * **Fast Acquisition**: Fast imaging mode with up to 30 frames per second for live sample observation. | M |  |
| 1. **Software and Analysis**    * **Software**:      + Leica Application Suite X (LAS X) for image acquisition, 3D reconstruction, deconvolution, and analysis.      + Automated workflows for multicolor imaging, Z-stacks, and time-lapse.    * **Data Export**: TIFF, JPEG, and proprietary formats, compatible with third-party image analysis tools.    * **Quantitative Analysis**: Colocalization, intensity quantification, volume rendering, and distance measurements. | M |  |
| 1. **Stage and Movement**    * **Motorized Stage**:      + Fully motorized XYZ stage for precise control.      + Travel Range: XY (100 mm x 100 mm), Z (20 mm).    * **Z-Drive Resolution**: Nanometer precision for optical sectioning. | M |  |
| 1. **Dimensions and Weight**    * **Microscope Dimensions**: Approximately 800 mm (W) x 600 mm (D) x 1500 mm (H) (varies with configuration).    * **Weight**: Approximately 80–150 kg depending on configuration and accessories. | M |  |
|  | | 1. **Power and Environmental Requirements**    * **Power Supply**: 100-240V AC, 50/60Hz.    * **Power Consumption**: 500W to 1500W depending on configuration.    * **Operating Temperature**: 20°C to 25°C.    * **Operating Humidity**: 20% to 80% non-condensing. | M |  |
|  | | 1. **Safety and Compliance**    * **Certifications**: CE, UL, ISO certified.    * **Laser Safety**: Complies with Class 1 laser product regulations, ensuring user safety.    * **Environmental Compliance**: RoHS and WEEE certified. 2. **Maintenance and Support**    * **Warranty**: 1-year warranty with options for extended service contracts.    * **Maintenance**: Routine alignment and cleaning of optics required.    * **Service and Support**: Includes remote diagnostic support, on-site service options.    * **Training**: Manufacturer-provided training for system operation, software usage, and advanced imaging techniques. | M |  |
|  | | 1. **Accessories**     * **Automated Stage**: For high-content imaging and multi-well plate imaging.    * **Additional Detectors**: Additional PMTs or HyD detectors for increased channel capacity.    * **Incubation Chamber**: Environmental control for live-cell imaging.    * **Deconvolution Software**: For image enhancement and resolution improvement. |  |  |
|  | | **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3, ITEM No: 7 Automated Plate Leader

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3, Item No 7 Automated Plate Leader | | 1. **Application**: Multi-mode microplate reader used for absorbance, fluorescence, luminescence, time-resolved fluorescence, and Alpha Screen/ assays in drug discovery, genomics, proteomics, and cell biology research. | M |  |
| 1. **Measurement Modes**    * Absorbance: 200 nm to 1000 nm.    * Fluorescence Intensity: Excitation and emission range from 200 nm to 1000 nm.    * Time-Resolved Fluorescence (TRF): For applications like TR-FRET.    * Luminescence: Glow and flash luminescence assays.    * Alpha Screen/Alpha LISA: Compatible for high-sensitivity Alpha assays. |  |  |
| 1. **Optical and Detection System**    * Detection:      + Quad monochromator system for optimal excitation and emission selection (no need for filters).      + Photomultiplier tubes (PMTs) for fluorescence and luminescence detection.    * Wavelength Selection:      + Monochromator-based for precise wavelength adjustment.      + Wavelength accuracy: ±1.0 nm.    * Reading Modes: Endpoint, kinetic, spectral scanning, and well area scanning.    * Sensitivity:      + Fluorescence Intensity: ≤0.2 fmol fluorescein/well.      + Luminescence: ≤3 amol ATP/well. | M |  |
| 1. Microplate Compatibility    * Plate Formats:      + Supports 6 to 1536-well plates.      + Flat, round, and half-area well plates.    * Reading Speed: Up to 1536 wells in less than 1 minute for luminescence and fluorescence.    * Shaking Options: Linear, orbital, and double orbital shaking for optimal mixing.    * Incubation: Temperature control up to 65°C with uniform temperature regulation across the plate. | M |  |
| 1. **Measurement Range**    * Absorbance:      + Dynamic range: 0 to 4.0 OD.      + Accuracy: ±1% (0–2 OD).    * Fluorescence Intensity: Wide dynamic range with flexible gain adjustment.    * Time-Resolved Fluorescence (TRF): High sensitivity for TRF assays.    * Luminescence: Dynamic range over 9 orders of magnitude. |  |  |
| 1. **Software and Data Analysis**    * Software: SkanIt Software included for experiment design, data acquisition, and analysis.      + Compatible with Windows operating systems.      + User-friendly interface with pre-set protocols for common assays.    * Data Export: Compatible with Excel, CSV, and PDF formats.    * Programmable Assays:      + Pre-configured protocols for ELISA, enzyme kinetics, DNA/RNA quantification, cell proliferation, and reporter gene assays.      + Customizable measurement protocols. | M |  |
| 1. **Automation and Throughput**    * Automated Plate Handling:      + Compatible with robotic systems for high-throughput screening.      + Automated plate loading and unloading with barcode scanning options.    * Multidrop Compatibility: Can integrate with Thermo Fisher’s Multidrop Combi dispenser for liquid handling and reagent addition.    * Stacker Compatibility: Optional plate stacker for batch processing of multiple plates. | M |  |
| 1. **Environmental Control and Features**    * Temperature Control: Programmable incubation from ambient to 65°C.    * Gas Control: Optional CO₂ and O₂ control for live-cell assays.    * Light Protection: Automated lid or plate cover to minimize ambient light interference. | M |  |
|  | | 1. **Dimensions and Weight**    * Dimensions: 46 cm (W) x 51 cm (D) x 39 cm (H).    * Weight: Approximately 28 kg. | M |  |
|  | | 1. **Power and Electrical Requirements**    * Power Supply: 100-240V AC, 50/60 Hz.    * Power Consumption: Approximately 300W during operation. | M |  |
|  | | 1. **Safety and Compliance**    * Certifications: CE and ISO certified.    * Safety Features: Complies with laser and electrical safety standards (Class 1 laser product).    * RoHS Compliance: Environmentally safe, RoHS-certified for hazardous substances. | M |  |
|  | | 1. **Maintenance and Support**    * Warranty: Standard 1-year warranty with optional extended service contracts.    * Maintenance: Periodic calibration and cleaning required.    * Support: Global technical support, remote diagnostics available.    * Training: Comprehensive training provided on software usage and assay design. | M |  |
|  | | 1. **Accessories**     * Plate Stacker: For automated handling of up to 50 plates.    * CO₂/O₂ Incubation Module: For cell-based assays requiring environmental control.    * Multidrop Dispenser: For automated reagent addition during high-throughput screening.    * Barcode Reader: For automated plate identification. | M |  |

LOT 3, ITEM No: 8 GEL ELECTROPHORESIS

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3, Item No 6 GEL ELECTROPHORESIS | | **GEL ELECTROPHORESIS UNIT**   1. **Mini Horizontal Gel Box**: The system should offer extended run length and an improved resolving area for complex analysis in a mini gel format, ideal for the rapid separation of haemoglobin molecules or agarose gels, making it suitable for sickle cell analysis. | M |  |
| 1. **System Dimensions**: The system should have dimensions of 15 cm (W) x 22 cm (L) x 9.5 cm (H). | M |  |
| 1. **UV Transmissible Gel Tray:** The gel tray should feature fluorescent graduations on its base and should measure 9 cm (W) x 11 cm (L). The tray should have grooves (8.7 cm L x 1.2 cm H) for better grip and include two comb slots in the same tray area. | M |  |
| 1. **Stable Gel Tray Design**: The gel tray should be equipped with stable silicone gaskets, eliminating the need for a separate casting tray. | M |  |
| 1. **Combs:** The system should provide two combs—one with 10 teeth and the other with 14 teeth. | M |  |
| 1. **Buffer Capacity**: The buffer tanks should have a capacity of 600 ml, with an optimal gel run feature and a fill line indicator for buffer levels along the unit side. | M |  |
| 1. **Electrode Separation**: The maximum electrode separation should be 19 cm with a maximum voltage of 150 V, providing 5 volts per cm of electrode separation (5 V x 19 cm = 95 V). | M |  |
| 1. **Electrode Durability:** The buffer chamber should have color-coded, sealed platinum electrodes, which are sturdier and more durable than standard silver electrodes. | M |  |
| **ELECTROPHORESIS POWER SUPPLY**   1. Design: The power supply should be ergonomically designed, lightweight, and compact, with approximate dimensions of 300 mm (L) x 200 mm (W) x 100 mm (H), and a weight of around 3.0 kg for easy portability. 2. Safety Features: For enhanced safety, none of the outlets should be directly wired to the Earth. All terminals should be floating with deeply recessed contacts. 3. Durability: The system must be robust and designed to provide uninterrupted service for years. 4. Output Control: The power supply should offer control for both voltage and current. It should allow voltage adjustment from 10-400 V (with a minimum requirement of 250 V for electrophoresis) and current adjustment from 4-400 mA. 5. Digital Display: The power supply should feature integrated digital displays to ensure precise output settings, with a 3-digit display for accuracy. 6. Timer: A built-in timer should be available, programmable from 1 minute to 999 minutes, allowing for unattended runs and eliminating the risk of sample overruns. 7. Multiple Gel Capability: The system should include four output terminals, allowing multiple gels to be run simultaneously. It should have a power capacity of 75 W. | M |  |
| **REAGENTS AND CHEMICALS**   1. Agarose: Pre-weighed vials of molecular biology-grade agarose, low EEO, DNase, and RNase free. 2. Buffers: Protein electrophoresis buffer. 3. Staining Solutions: Protein gel staining solution and de-staining solution. 4. Gel Loading Dye: Suitable for loading samples into the gel. | M |  |
| **PLASTICWARE**   1. Microfuge Tubes: 2 ml autoclavable tubes. 2. Micropipettes:    * 1000 µl    * 200 µl    * 0-10 µl 3. Pipette Tips:    * 1000 µl    * 200 µl    * 0-10 µl | M |  |
| **ELECTROPHORESIS SYSTEM (SUMMARY)**   * **Mini Horizontal Gel Box**: 9 x 11 cm gel, rapid cast tray with two comb slots (10- and 14-tooth combs, 1.5 mm thick), 600 ml buffer capacity, color-coded platinum electrodes. * **Electrophoresis Power Supply**: 0-300 V, constant voltage, constant current, programmable timer (1 to 999 minutes), and adjustable voltage range (10-300 V). | M |  |
| **CONDITIONS**   1. Certifications: The manufacturing company should be WHO-GMP approved, ISO certified, and the product must conform to BIS standards. 2. Vendor Requirements: The vendor must supply the electrophoresis gel system, power supply, molecular biology reagents, and plasticware on a regular basis. 3. Training: The vendor should provide training on-site or regionally at no additional costWarranty: The manufacturer should provide a 2-year warranty post-installation. 4. Maintenance: The vendor must offer an annual maintenance contract for at least 5 years after the expiration of the warranty period. | M |  |
|  | | **IMAGING SYSTEM REQUIREMENT**  The entire electrophoresis system should be supplied with the following gel imaging equipment:  Imaging System   * Detection Modes: Capable of both fluorescence and chemiluminescence detection, making it suitable for a wide variety of applications including protein and nucleic acid analysis. * Imaging Resolution: High-resolution imaging with a 9.1 MP camera for clear, detailed images. * Touchscreen Display: Features a large 12.1-inch touchscreen for easy interaction and navigation through the system’s functions. * Pre-set Protocols: Equipped with pre-set protocols and automated image capture settings for common applications, reducing setup time. * Multi-channel Detection: The system offers multi-channel fluorescence detection, supporting up to 5 fluorescent channels for multiplex analysis. * Imaging Area: Supports a large imaging area of 22.5 x 18.0 cm, suitable for various gel sizes. * Data Transfer: Equipped with USB and Ethernet connectivity for easy data transfer and remote operation. * User-Friendly Software: Includes intuitive software for image analysis, quantification, and report generation. * Compact Design: The system is compact and easy to fit into laboratory spaces, with efficient cooling mechanisms to maintain long-term performance. | M |  |
| **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT3, ITEM No: 9 Compound Microscope

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3 Item No 9: Compound Microscope | | 1. Application: Ideal for routine light microscopy applications in educational, clinical, and research settings, including biology and medical research. | M |  |
| 1. Optical System    * Objective Lenses:      + Types: Achromatic objectives with various magnifications (e.g., 4x, 10x, 40x, 100x oil immersion).      + Numerical Aperture (NA): Ranges depending on objective lens; up to 1.25 for oil immersion objectives.    * Eyepieces:      + Types: Widefield eyepieces with 10x magnification.      + Field of View: Wide field of view (e.g., 22 mm).    * Illumination:      + Type: LED illumination with adjustable intensity.      + Color Temperature: Provides bright and clear illumination suitable for various specimens. | M |  |
| 1. Mechanical Features    * Stage:      + Type: Rectangular stage with mechanical control.      + Size: 175 x 140 mm.      + Travel Range: X and Y mechanical stage with a range of 75 x 50 mm.    * Focus Mechanism:      + Type: Coaxial coarse and fine focusing knobs.      + Focusing Range: Smooth and precise focusing with minimal backlash.    * Condenser:      + Type: Abbe condenser with adjustable iris diaphragm.      + NA: Typically, 1.25, adjustable for different objective lenses. | M |  |
| 1. Optical Quality    * Resolution:      + High Resolution: Capable of resolving fine details in specimens.    * Contrast:      + Contrast Methods: Brightfield microscopy, with optional contrast techniques available. | M |  |
| 1. Accessories and Options    * Camera Integration:      + Compatible with digital cameras for image capture and documentation.    * Microscope Slides:      + Type: Standard slide and cover slip dimensions.    * Additional Filters:      + Color and polarizing filters available as accessories. | M |  |
| 1. Physical Specifications    * Dimensions:      + Base: Compact and robust base suitable for laboratory benches.    * Weight:      + Approximate: 10-15 kg, depending on configuration and accessories. | M |  |
| 1. Power and Electrical Requirements    * Power Supply:      + Voltage: 100-240V AC, 50/60Hz.      + Power Consumption: Low power consumption with LED illumination. | M |  |
| 1. Maintenance and Support    * Warranty:      + Standard Warranty: 2 years, with options for extended service plans.    * Maintenance:      + Cleaning: Regular cleaning of optics and mechanical parts recommended. | M |  |
|  | | **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3, ITEM No: 10 Digital Imaging System

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3 Item No 10 : Digital Imaging System | | High resolution, fast processing, wide range of imaging options | M |  |
| Documentation System; 230V; 60Hz 4 0MP imaging 16bit camera with 73% QE @425nm with motor driven zoom f1 2 lens 12 5 - 75mm with Feedback 7 Position motor driven filter wheel with UV chemi filter top darkroom cover | M |  |
| Max image size 30 5 x 22 7cm Includes epi LED white lights With GeneSys software & unlimited copies of GeneTools | M |  |
| Max viewing area 30 5 x 23cm No transilluminator or white light converter supplied please select from list below PC required | M |  |
| LS-PC: Desktop Personal Computer Package for Equipment DELL OPTIPLEX 7010 Tower i5; 16GB RAM; 256GB SSD NvME; 8x DVD drive; 21.5" Screen; WINDOWS 11 Pro; Keyboard and Mouse. | M |  |
| GX-2020LM-E: Transilluminator (20x20cm; 302/365nm) 230V; 50Hz + runners Dual wavelength slide-out trans | M |  |
| CONVERTBLUE-2530: UV to Blue light converter; Size 25x30cm Blue Light Size 25x30cm suitable for DNA safe dyesilluminators | M |  |
| GX-CONVERT5: Viisible light converter; Size 30.5x33cm White Light |  |  |
|  | | GX-NFS-EPILED-SET: Neutral field screen & neutral density filter. Corrects for any uneven Illumination by acquiring a neutral-field reference image with the same intensity illumination as the experiment. For use with EPI-LED lighting | M |  |

LOT 3, ITEM No 11 DNA Sequencer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 3, Item No 11 DNA Sequencer | | **1. Basic Parameters**  1.1 **Dimensions**: 1086 mm × 756 mm × 710 mm 1.2 **Net Weight**: 200 kg 1.3 **Power**: 100-240 V, 1200 VA 1.4 **Operating Environment Requirements**:   * Temperature: 19℃-25℃ * Relative Humidity: 20% RH - 80% RH * Atmospheric Pressure: 70 kPa - 106 kPa * Altitude: < 3000 m 1.5 **Screen**: 19.5 inches touch screen, resolution 1920 × 1080 | M |  |
| **2. Control Computer Configuration**  2.1 **CPU**: Intel Xeon E5 2.2 **Internal Storage**: 256 GB RAM 2.3 **HDD**: 16 TB 2.4 **SSD**: 480 GB 2.5 **Sequencer Control Software**: Switchable between Chinese and English control systems | M |  |
| 3. **Applications**  3.1 Scientific Research Applications:   * Whole Genome Sequencing (WGS) * Whole Exome Sequencing (WES) * Epigenome sequencing * Transcriptome sequencing * Metagenomic sequencing * Single-cell sequencing   3.2 Applicable Applications: 3.2.1 Mainstream Scientific Research Applications:   * WGS, WES, targeted gene sequencing * Whole transcriptome sequencing * Gene expression profiling * Whole-genome bisulfite sequencing (WGBS) * Single-cell sequencing   3.2.2 Mainstream Clinical Applications:   * Prenatal and pre-pregnancy testing * Neonatal testing * Pathogen detection * Tumor diagnosis, treatment, and prevention   3.2.3 Other Applications:   * Forensic applications * CDC applications * Agricultural applications   3.2.4 Reagent Products: Can be used for:   * Individual identification * Racial classification * Phenotypic classification * ABO blood group identification * Paternity testing   3.2.5 Simultaneous Detection: 265 sites can be detected at once, covering SNP sites for individual identification and characterization. | M |  |
| **4. Functions**  4.1 Function Range:   * Complete DNB loading on the Flow Cell * Collect sample sequence information * Identify and preliminarily analyze sequence data   4.2 Input and Output:   * Input: Sequencing reagent, Flow Cell, and user-prepared DNB library (produced by MGI) * Output: FASTQ file and sequencing quality report   4.3 Core Principle: MGI's DNBSEQ™ technology:   * DNA single-strand cyclization & DNB preparation * Patterned Array Flow Cell * DNB loading * cPAS (combinatorial Probe Anchor Synthesis) * Pair-End sequencing technology * Matched fluid, optical detection, and base calling algorithms   4.4 User Experience: Features:   * Power-on self-test * Status monitoring * Automatic alarms * Log management * User authorization management * Multi-language operation interface * Consumable identification * Process guidance * Sequencing customization * Data security and cleaning * Cloud data transmission * Parameters calibration * Common communication interfaces | M |  |
| **5. Performances**  5.1 Optical System: Recognizable pitch ≤715 nm with 4-color detection  5.2 Sequencing Flow Cells:   * Stored and transported at low temperature (-25℃ to -15℃) * Flow cells can be used at room temperature, no liquid medium needed   5.3 Flow Cell Types:   * FCS: Single flow cell effective reads are 550M, with 2 lanes * FCL: Single flow cell effective reads are 1500M-1800M, with 4 lanes   5.4 Flow Cell Modes: Supports single and dual flow cell modes  5.5 Loading System: Supports built-in and optional external sample loading system  5.6 Patterned Array Flow Cell: High-density with minimal signal cross-impact  5.7 Sequencing Application: 8+ sequencing applications performed independently at the same time  5.8 Sequencing Method: Supports Single-End (SE) and Pair-End (PE) sequencing  5.9 Sequencing Modes:   * SE50, SE100, SE400 * PE100, PE150, PE200   5.10 Barcode Sequence: Sample barcode sequence ≥9 bp 5.11 Base Read Capability: Capable of reading more than 12 consecutive identical bases (e.g., AAAAAAAAA) 5.12 Throughput:   * 2 FCS: Generates up to 330G data in PE150 mode per run * 2 FCL: Generates up to 1440G data in PE200 mode per run   5.13 Run Time:   * FCL PE150 sequencing at full capacity: 66 hours * FCS PE150 sequencing at full capacity: 37 hours * Time includes post-loading prime to sequencing completion, including barcode demultiplexing and FASTQ file output   5.14 Data Quality:   * For read lengths ≤200 bp (SE50, SE100, PE100), Q30 > 85%   5.15 Preliminary Data Analysis: Performed during sequencing, produces base sequence with quality scores 5.16 Bioinformatics Analysis:   * Packaged with MegaBOLT for automated analysis via ZLIMS * Solutions include Germline/Somatic WGS/WES, Pathogen Fast Identification (PFI), Multiplex COVID-19 analysis   5.17 Bioinformatics Efficiency:   * Germline WGS 30X: 2 hours * WES 400X: 0.4 hours * Somatic WGS 40X Tumor + 40X Normal: 5 hours * Somatic WES 400X Tumor + 400X Normal: 0.7 hours   6. Installation and Maintenance  6.1 Installability: Easy to install and debug on site, one person can complete installation 6.2 Maintainability:   * Short daily maintenance time * Easy maintenance process   6.3 Remote Diagnostics: Supports remote fault diagnosis and easy part replacement 6.4 MegaBOLT Server: External server, independent from the sequencer for easier maintenance | M |  |
| **The equipment to include**  - Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel  - After sales support  - Must show proof of trained and certified technical service personnel.  Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 3, ITEM No:12 Fluorescent microscope

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Item No 34 Fluorescent microscope | | 1. Observation mode: Brightfield, LED fluorescence.  2. Epi-illumination and filter: High-power blue LED with brightness control position filter holder; blue included.  3. Head: Trinocular (fixed 50/50), 30° inclined, 360° rotating.  4. Interpupillary distance: Adjustable between 48 and 75 mm.  5. Dioptric adjustment: On the left eyepiece tube.  6. Eyepieces: WF10x/20 mm, high eye-point and secured by screw.  7. Nosepiece: Quintuple revolving nosepiece, rotation on ball bearings.  8. Objectives: 4x/0.10, W.D. 16.8 mm 10x/0.25, W.D. 5.8 mm 20x/0.40, W.D. 5.1 mm 40x/0.65, W.D. 0.43 mm 100x/1.25 (Oil/Water), W.D. 0.13 mm All with anti-fungus treatment.  9. Specimen stage: Double layer rackless mechanical stage, 233x147 mm, 78x54 mm X-Y range.  10. Focusing: Coaxial coarse (adjustable tension) and fine focusing mechanism with limit stop to prevent the contact between objective and specimen.  11. Condenser: Abbe N.A. 1.25, with objective-coded iris diaphragm, focusable and centerable.  12. Transmitted illumination (Fixed Koehler type): X-LED3 with white W LED (6,300K) with brightness control. Multi-plug 100-240Vac/6Vdc external power supply. | M |  |

**LOT 4, ITEM No.1*****Nuclear Magnetic Resonance (NMR)***

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| ***Item No*** | ***Name of Goods or Related Service*** | ***Technical Specifications and Standards*** | ***Mandatory*** | ***Technical Specifications and Standards offered by supplier*** |
| 1.**Nuclear Magnetic Resonance (NMR)** | | **Resolution** |  |  |
| 1. Proton Frequency 80 MHz (1.9 Tesla)- Nuclei included on the system 1H, 19F and 13C | M |  |
| 2. Spectral Resolution @ 50/0.55/0.11% signal height < 0.4/15/30 Hz | M |  |
| 3. The procedure to measure the resolution is a sample of 20% Chloroform dissolved in deuterated acetone. The resolution must be measured without sample spinning and determined without mathematical post-processing. | M |  |
| 4. Sensitivity (SNR) > 200:1 for 1% Ethylbenzene | M |  |
| 5. The procedure to measure the sensitivity is a standard sample of 1% Ethyl benzene in deuterated Chloroform. The spectrum used for the SNR calculation must be acquired in a single scan and processed by applying a 1 Hz Lorentzian apodization. For SNR calculation, the amplitude of the highest peak of the methylene quartet must be used. | M |  |
| 6. Dimensions 58 x 43 x 40 cm (23" x 17" x16") (D x W x H) | M |  |
| 7. Weight less than 74 kg | M |  |
| Operating Temperature Range: 18 - 28 °C M (65 - 82 °F) |  |  |
| 8. External lock - No deuterated solvents required | M |  |
| 9. 3D PFG for gradient-selected (gs) sequences | M |  |
| 10. Uses 5 mm tube | M |  |
| 11. Stray Field < 2 Gauss Outside the system | M |  |
| 12. Permanent Spinsolve Software license, including the protocols | M |  |
| 13. 1D Proton (1H) with F- and C-Decoupling | M |  |
|  | | 14. T1 and T2 Relaxation | M |  |
| 15. 2D gs-COSY, gs-TOCSY, gs-JRes, gs-ROESY | M |  |
| 16. 1D Fluorine with H-Decoupling | M |  |
| 17. 2D gs-F-COSY, gs-F-JRes, gs-HF-COSY | M |  |
| 18. 1D Carbon NOE with H- and F-Decoupling | M |  |
| 19. DEPT with H-Decoupling | M |  |
| 20. APT with H-Decoupling | M |  |
| 21. 2D gs-HSQC, gs-HSQC-ME, gs-HMQC, gs-HMBC, and gs-HETCOR | M |  |
| 22. Reaction Monitoring | M |  |
| 23. Advanced Autoshim | M |  |
| 24. Queue Manager | M |  |
| **The equipment to include**   * Uninterrupted power supply (UPS) * Commissioning and training, including application training * After sale support * Must show proof of trained and certified technical service personnel. * Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | **M** |  |

LOT4 ITEM No: 2 Weighing Balance (200g capacity)

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 Item No.2 Weighing Balance (200g capacity) | | **Technical specifications**   1. Specifications: 110g/0.001g, 210g/0.001g 2. Sensor’s Technology method: Strain gauge 3. Stainless steel pan size: ø90mm 4. Minimum weighing value: 0.003g 5. Resolution: 0.001g 6. Linearity: ±0.003g 7. Stabilization time: ≤ 2S 8. Sensitivity drift: ±0.003g 9. Weighing Units: g, oz, ct, mg 10. Operating Temperature: 17 C – 25 degree 11. Display Refresh time: 0.3 secs 12. External calibration weight free with scale: 100g, 200g 13. Counting feature: Yes 14. Display: LCD 15. Wind proof (shield) 16. Operation Key: ON/OFF, COUNT, ENTER, CAL, UNIT 17. Power: AC 220V 50Hz 18. Main parts: Cast Aluminum, wind proof, Calibration weight 19. Optional part: RS232, Printer 20. Inner packing: 415\*285\*430mm 21. Outer packing:475\*315\*485mm 22. N.W.: 4kg 23. G.W.: 7kg | M |  |
| **Supplies**   1. Power cord 2. Operator's manual 3. Dust cover | M |  |
| **Instruction for use**   1. It must have an instruction manual for use | M |  |
| **Dimensions**   1. Window proof shield 170\*190\*170mm 2. Outlook size: 270\*195\*285mm | M |  |

LOT4 ITEM No 3: Weighing Balance (2kg capacity)

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 Item No.3 Weighing Balance (2kg capacity) | | Technical specifications   1. Specifications: 110g/0.001g, 210g/0.001g 2. Sensor’s Technology method: Strain gauge 3. Stainless steel pan size: ø90mm 4. Minimum weighing value: 0.003g 5. Resolution: 0.001g 6. Linearity: ±0.003g 7. Stabilization time: ≤ 2S 8. Sensitivity drift: ±0.003g 9. Weighing Units: g/oz/lb/kg/ct/pcs 10. Operating Temperature: 17 C – 25 degree 11. Display Refresh time: 0.3 secs 12. External calibration weight free with scale: 100g, 200g 13. Counting feature: Yes 14. Display: LCD with backlight 15. Wind proof (shield) 16. Operation Key: ON/OFF, COUNT, ENTER, CAL, UNIT 17. Main parts: Cast Aluminum, wind proof, Calibration weight 18. Optional part: RS232, Printer 19. Inner packing: 415\*285\*430mm 20. Outer packing:475\*315\*485mm 21. Capacity 4kg | M |  |
| Supplies   * + - 1. Power cord/adapter       2. Operator's manual  1. Dust cover | M |  |
| Instruction for use   * It must have an instruction manual for use | M |  |
| Dimension   * Window proof shield 170\*190\*170mm * Outlook size: 270\*195\*285mm   Platform size: 145 mmx 145 mm | M |  |

LOT 4, ITEM 4: Upright Fridge

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 item No.4 Upright Fridge | | 1. The unit should comply with relevant IEC safety standards 2. Minimum Gross storage Capacity: 310 to 330 ltrs 3. Model Type: Double door 4. Voltage Range: at 40 degree centigrade 5. Capable of working on 220 volts + 12 % A.C 50 Hz 6. Power Source: AC, 220 Volts to, 50 Hz 7. Method of Defrosting Frost: Free 8. Insulation Puff / Maxi 2 / Polyurethane 9. Refrigerant: Gas CFC free 10. Compressor Power saver: compressor 11. Accessories Required: Adjustable shelves, chiller Tray, Temperature 12. controller, Auto lamp On/off feature, should be 13. supplied with all standard accessories as per 14. manufacturer catalog for the model supplied 15. Warranty: with 3-year Comprehensive Warranty 16. Stabilizer Should be supplied with 0.5 KVA capacities CVT 17. without any extra cost. The CVT should also carry a 3 years warranty.   Colors : Steel grey with metallic finish ( Metallic Color) | M |  |

Lot 4 Item 5 Automatic Colony Counter Scan

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 Item No 5  Automatic colony counter | | All stainless steel body   1. • CMOS color camera 2. • Lens M12 3. • Digital zoom x28 (enabling to read the letters on the disks) 4. • Resolution: 1 mega-pixels 5. • Counting time: 1000 colonies per second 6. • Minimum size of colony: 0.1 mm 7. • Lighting system: long-life white LEDs / Dark Field   • Lighting system: automatic 6 combinations, top and/or bottom light, white or black background | M |  |

LOT 4 ITEM No: 6 Data logger

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 Item No 6 Data logger | | 1. **Technical Specifications**    * **Number of Input Channels**: 2, 4, 6, 10, or 12 channels (expandable).    * **Input Types**: Thermocouple (B, E, J, K, N, R, S, T, W), RTD (Pt100, JPt100), DC voltage, DC current (with external shunt).    * **Sampling Rate**: 25 ms for all channels.    * **Input Range**:      + Voltage: -20 mV to 20V.      + Current: 4-20 mA (via shunt resistor).    * **Recording Capacity**:      + Up to 200 MB internal memory.      + External storage options: CompactFlash card, USB storage.    * **Display**: 5.5-inch TFT LCD color display (320 x 240 pixels).    * **Screen Display Modes**: Trend display, digital display, bar graph, overview display, etc. | M |  |
| 1. **Data Storage and Communication**    * **Internal Memory**: 200 MB non-volatile memory.    * **External Memory**: CompactFlash card (up to 2 GB), USB ports for external storage.    * **Communication Interfaces**:      + Ethernet (100Base-TX/10Base-T).      + RS-422/485 (Modbus RTU/ASCII).      + USB 2.0 port (for data export to USB devices).   **Protocols Supported**: Modbus TCP, FTP server/client, Web server, SNTP, DHCP, HTTP | M |  |
| 1. **Environmental Conditions**    * **Operating Temperature**: 0°C to 50°C.    * **Operating Humidity**: 20% to 80% RH (non-condensing).    * **Storage Temperature**: -20°C to 60°C. | M |  |
| 1. **Power and Electrical Requirements**    * **Power Supply**: 100-240V AC, 50/60 Hz.    * **Power Consumption**: Approximately 40W maximum.    * **Insulation Resistance**: 20 MΩ or more at 500 VDC. | M |  |
| 1. **Safety and Compliance**    * **Safety Standards**: CE, UL, CSA certified.    * **EMC Compliance**: EN61326 (for industrial environments).    * **IP Rating**: IP65 (front panel only), suitable for industrial environments. | M |  |
| 1. **Dimensions and Weight**    * **Dimensions**: 144 mm (W) x 144 mm (H) x 185 mm (D).    * **Weight**: Approximately 2.5 kg. | M |  |
| 1. **Display and User Interface**    * **Touch Screen**: Intuitive touchscreen interface for easy operation.    * **Trend Recording**: Real-time trend display for all channels.    * **Alarms**: Visual and audible alarms, 4 relays for external alarm triggering.    * **Math Functions**: Up to 60 math channels for calculations (e.g., averages, differences). | M |  |
| 1. **Software and Programmability**    * **Software Compatibility**: Comes with "DAQ Manager" software for data analysis and report generation.    * **Security Features**: Password protection, user authentication.    * **Data Backup**: Automatic data backup to external storage. | M |  |

LOT 4, ITEM No:7 Ultra Low Freezer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 4 Item No 7 Ultra Low Freezer | | 1. Volume (L): 100  2. Min. Temp (°C): -86  3. External Size (mm): W720xD1000xH793  4. Internal size (mm): W450xD450xH500  5. Power supply: 220V  6. Weight (Kg): 120  General Description:  - Capacity: 100 Liters.  - External size (mm): W1066\*D742\*H820.  - Internal size (mm): W450\*D439\*H514.  - Upright type.  - 7 days temperature recorder.  - 2 Stainless steel shelves.  - Inside temperature ranging from -40 to -86 Deg. C  - Two-times foaming technology. 120mm foaming insulation with VIP insulation board  - safety alarms : high/low temperature alarm, open door alarm, power failure alarm, low  - battery alarm, filter blocking alram and system failure alarm.  - Digital LCD display.  - mixture gas with R134a, R404a, R23, R24, N2, R600a and more, CFC free.  - certificates:ISO14001, ISO13485, ISO9001.  - Power supply: 220 Volt.  - Input power: 1000 Watt.  - Weight 120 Kg. | M |  |

LOT 5, ITEM No: 1 Moisture meter

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5 Item No.1 Moisture meter | | **Specifications**  **Application:**   * + Designed for non-invasive moisture detection in wood, building materials, drywall, concrete, and other surfaces. Commonly used in construction, restoration, and inspections.   + Measurement Capabilities   + Moisture Measurement Range:   + 0 to 99.9% relative moisture content.   + Measurement Type:   + using an electromagnetic sensor to detect moisture beneath the surface.   + Depth of Measurement:   + Measures moisture up to 0.75 inches (19 mm) below the surface without damaging the material.   + Accuracy:   + Relative readings, ±3% depending on material. | M |  |
| 1. **Sensor Technology**    * + Uses non-invasive technology to detect moisture without damaging or penetrating the material.    * **Measurement Modes**:      + Can be used on wood, drywall, concrete, and other building materials.    * **Material Modes**:      + Optimized for various types of wood and construction materials for accurate measurements. | M |  |
| 1. **Display and Readout**    * **LCD Display**:      + Large, easy-to-read display showing real-time moisture percentage.    * **Indicator**:      + High-moisture content warning with a visual indicator for potential material damage.    * **Measurement Hold**:      + Data hold function to freeze the reading on the display for easy recording. | M |  |
| 1. **Physical Specifications**    * **Dimensions**:      + **5.7 x 2.9 x 1.3 inches** (145 x 73 x 33 mm).    * **Weight**:      + **5.6 ounces** (160 grams), lightweight and portable for field use.    * **Sensor Type**:      + Pinless, with a flat scanning surface for quick, non-invasive readings. | M |  |
| 1. **Power and Electrical Requirements**    * **Power Supply**:      + Powered by a **9V battery** (included).    * **Battery Life**:      + Long-lasting with typical use; battery replacement indicated when low. | M |  |
| 1. **Environmental Specifications**    * **Operating Temperature Range**:      + **0 to 40°C** (32 to 104°F), suitable for use in various environments.    * **Operating Humidity Range**:      + **0 to 85% RH** (non-condensing). | M |  |
| 1. **Additional Features**    * **Auto Power Off**:      + Automatically shuts off after a period of inactivity to conserve battery life.    * **Calibration**:      + Factory calibrated for accuracy in measuring moisture in different materials.    * **Material Selection**:      + Preprogrammed settings for specific materials, such as wood, concrete, drywall, and more. | M |  |
| 1. **Safety and Certifications**    * **CE Certified**:      + Ensures compliance with European safety and quality standards. | M |  |

LOT 5, ITEM 2: Field Moisture meter

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5 Item No.2 Field Moisture meter | | **Specifications**   1. **General Information**    * **Application: Designed for measuring soil moisture in agriculture, turf, research, and environmental monitoring. Suitable for applications in irrigation management, soil analysis, and water conservation efforts** | M |  |
| 1. **Measurement Capabilities**    * **Soil Moisture Measurement**:      + **Range**: 0 to 100% volumetric water content (VWC).      + **Accuracy**: ±3.0% VWC with standard calibration (can be improved using custom calibration for specific soil types).      + **Resolution**: 0.1% VWC.    * **Measurement Depths**:      + Interchangeable probes for various depths, typically **1.5 inches (3.8 cm), 3 inches (7.5 cm), 4.8 inches (12 cm), and 8 inches (20 cm)**. | M |  |
| 1. **Measurement Technology**    * **Time-Domain Reflectometry (TDR)**:      + Uses TDR technology for quick and accurate measurement of soil moisture.      + Direct insertion of probes into the soil provides instant moisture readings.    * **Soil Types**:      + Preprogrammed with common soil calibrations, and custom calibration options available for specific soil types. | M |  |
| 1. **Data Logging and Handling**    * **Data Storage**:      + Internal memory capable of storing up to **3,250** measurements.    * **Data Transfer**:      + Compatible with **Bluetooth** or **USB** connection for data transfer to PCs or mobile devices.    * **Display**:      + LCD screen for real-time readings and data review.    * **GPS Integration**:      + Compatible with GPS for georeferenced data collection (optional GPS unit required).    * **Software Compatibility**:      + Compatible with FieldScout® software for data analysis and reporting. | M |  |
| 1. **Physical Specifications**    * **Probe Material**:      + Stainless steel probes for durability and accuracy.    * **Instrument Housing**:      + Made of high-impact plastic for rugged outdoor use.    * **Dimensions**:      + Approximately **35 inches (89 cm)** with the handle attached.    * **Weight**:      + **2.5 lbs (1.1 kg)** without probes. | M |  |
| 1. **Power and Electrical Requirements**    * **Power Supply**:      + Powered by **4 AA batteries** for portable field use.    * **Battery Life**:      + Approximately 12 months of typical use before battery replacement. | M |  |
| 1. **User Interface**    * **Controls**:      + Simple, intuitive interface with control buttons for data logging, navigation, and probe selection.    * **Readout Display**:      + Real-time display of soil moisture content and status indicators. | M |  |
| 1. **Environmental Specifications**    * **Operating Temperature Range**:      + **0 to 50°C** (32 to 122°F) for reliable operation in various climates.    * **Water Resistance**:      + Designed for outdoor use with weather-resistant housing. | M |  |
|  | | 1. **Maintenance and Support**    * **Warranty**:      + 1-year warranty covering defects and malfunctions.    * **Maintenance**:   Regular cleaning of the probes recommended for long-term accuracy | M |  |

LOT 5, ITEM 3 : Heater

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5, Item No 3 Heater | | 1. **Top Plate Specifications**    * **Material Options**:      + Ceramic: For chemical resistance and easy cleaning.      + Aluminum: For even heat distribution.    * **Size Options**:      + Available in various sizes, typically ranging from 4 x 4 inches to 10 x 10 inches to accommodate different vessel sizes. | M |  |
| 1. **Heating Performance**    * **Maximum Temperature**:      + Up to 540°C, depending on the model and top plate material.    * **Temperature Control**:      + Digital or analog temperature control options available for precise heating.    * **Safety Features**:      + Built-in safety systems including overheating protection and a hot top indicator to prevent accidental burns. | M |  |
| 1. **Stirring Performance**    * **Stirring Speed Range**:      + Typically, 60 to 1500 RPM, allowing for a wide range of stirring applications.    * **Stirring Capacity**:      + Can stir volumes up to 15 liters (depending on model).    * **Stirring Mechanism**:      + Powerful magnetic stirring with smooth acceleration and deceleration to ensure proper mixing.    * **Magnetic Coupling**:      + Strong magnetic coupling ensures smooth stirring without slippage, even at higher speeds. | M |  |
| 1. **Control Features**    * **Speed Control**:      + Analog or digital adjustment for setting precise stirring speeds.    * **Temperature Control**:      + Optional digital control for precise temperature adjustments.    * **Timer**:      + Some models include an integrated timer for controlled heating and stirring durations.    * **External Temperature Probe Compatibility**:      + Optional external temperature probe to monitor and control liquid temperature more precisely. | M |  |
| 1. **Safety Features**    * **Hot Top Indicator**:      + Visual indication when the plate surface remains hot, even when the unit is turned off.    * **Over-temperature Protection**:      + Automatic shutoff feature when the set temperature is exceeded.    * **Durable Housing**:      + Chemically resistant, ensuring safety in harsh environments.    * **Non-slip Feet**:      + To ensure stability during operation. | M |  |
| 1. **Physical Specifications**    * **Dimensions**:      + Vary by model and plate size (e.g., 7.3 x 10.4 x 4.3 inches for some models).    * **Weight**:      + Typically, 3-5 kg depending on the size of the plate and model. | M |  |
| 1. **Power and Electrical Requirements**    * **Power Supply**:      + 100-120V/220-240V AC, 50/60 Hz (dual voltage models available).    * **Power Consumption**:      + Varies by model, typically around 600 watts. | M |  |
| 1. **Maintenance and Support**    * **Warranty**:      + Typically comes with a 2-year warranty, with options for extended service.    * **Maintenance**:      + Regular cleaning of the top plate is recommended, with minimal maintenance needed for internal components. | M |  |

LOT 5, ITEM No 4: Plant Growth Chamber

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5, Item No 4 Plant Growth Chamber | | 1. **Application**: Precision environmental control system used for simulating climate conditions, typically in plant growth chambers, insect incubators, and environmental research settings. | M |  |
| 1. **Control Capabilities**    * **Temperature Control**:      + **Range**: -10°C to +60°C (depending on chamber configuration).      + **Accuracy**: ±0.5°C across the range.      + **Stability**: High stability with consistent temperature regulation throughout the chamber.    * **Humidity Control**:      + **Range**: 10% to 98% RH (Relative Humidity).      + **Accuracy**: ±3% RH.      + **Control Modes**: Programmable with independent day and night humidity settings.    * **Lighting Control**:      + **Light Sources**: Fluorescent, LED, or incandescent (depending on chamber specifications).      + **Photoperiod**: Programmable light/dark cycles.      + **Intensity**: Adjustable light intensity for simulating dawn, daylight, and dusk.    * **CO₂ Control** (Optional):      + **Range**: 0-5000 ppm or higher with optional CO₂ enrichment module.      + **Control**: Programmable concentration for plant growth or other applications. | M |  |
| 1. **User Interface and Software**    * Control System: Intellus Ultra provides precise control over environmental variables with a user-friendly interface.    * Display: Touchscreen interface for monitoring and programming.    * Data Logging: Records environmental parameters such as temperature, humidity, and light levels.    * Remote Monitoring: Intellus Ultra Connect allows for web-based monitoring and control via PC or smartphone.    * Pre-Programmed Settings: Built-in programs for common research applications like plant growth, insect breeding, and temperature cycling. | M |  |
| 1. **Environmental Simulation**    * Diurnal Settings: Capability to simulate day/night conditions with independent control of temperature, humidity, and light.    * Ramp and Soak: Programmable ramping profiles to simulate gradual changes in temperature and other environmental factors.    * Alarms and Alerts: Audible and visual alarms for temperature or humidity excursions, with optional remote alerts via email or text. | M |  |
| 1. **Physical Specifications**    * Modular Design: Can be integrated with various types of Percival growth chambers, insect chambers, or incubators.    * Dimensions: Vary depending on the chamber size and configuration.    * Weight: Dependent on the model and configuration. | M |  |
| 1. **Power and Electrical Requirements**    * **Power Supply**: 120V/240V AC, 50/60Hz (depending on the specific chamber setup).    * **Power Consumption**: Varies based on environmental settings and chamber type. | M |  |
| 1. **Safety and Compliance**    * **Certifications**: CE, ISO certified for safety and environmental standards.    * **Fail-Safe Mechanisms**: Includes backup systems for critical environmental controls to prevent failure in case of power loss or system malfunction. | M |  |
| 1. **Maintenance and Support**    * Warranty: 2-year standard warranty with optional extended service plans. | M |  |
| 1. **Optional Accessories**    * **CO₂ Control Module**: For precise control of CO₂ concentrations.    * **Humidity Control Module**: Enhanced humidity control for specific research needs.    * **Data Logging and Connectivity**: Remote access options for data collection and control. | M |  |
| **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

LOT 5, ITEM No 5 Soil Analyzer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5,Item No 5: Soil Analyzer | | 1. Application: Advanced soil analysis for measuring soil properties such as moisture, nutrients, pH, and organic matter content in agricultural and environmental research. | M |  |
| 1. Measurement Capabilities    * Soil Moisture:      + Range: 0 to 100% volumetric water content.      + Accuracy: ±0.5% VWC.    * Soil pH:      + Range: 3.0 to 9.0 pH.      + Accuracy: ±0.1 pH units.    * Soil Nutrients:      + Nitrate (NO3): Quantification with detection limits typically in mg/kg.      + Phosphorus (P): Detection and quantification based on standardized methods.      + Potassium (K): Measurement of soil potassium levels.    * Organic Matter:      + Range: 0 to 100% organic content.      + Accuracy: ±0.5% organic matter. | M |  |
| 1. Measurement Technology    * Sensor Technology:      + Combination of optical and electrochemical sensors for accurate and reliable soil property measurements.      + Advanced calibration techniques for diverse soil types.    * Sample Handling:      + Compatible with various sample types including soil cores and extracts.      + Integrated sample preparation features for ease of use. | M |  |
| 1. Data Handling and Connectivity    * Data Output:      + Digital readout with high-resolution display.      + Options for data export in various formats (e.g., CSV, Excel).    * Connectivity:      + USB, Bluetooth, or Wi-Fi for data transfer and remote access.      + Compatible with Thermo Fisher Scientific data management software for comprehensive analysis. | M |  |
| 1. Physical Specifications    * Dimensions:      + Typically compact and designed for lab or field use (specific dimensions vary by configuration).    * Weight:      + Designed for portability and ease of use (weight varies based on configuration). | M |  |
| 1. Power and Electrical Requirements    * Power Supply:      + Battery-operated or AC adapter options.    * Power Consumption: Low power consumption suitable for extended use. | M |  |
| 1. Maintenance and Support    * Warranty:      + 1-year standard warranty with optional extended service plans.    * Maintenance:      + Regular calibration and cleaning required for optimal performance. | M |  |
| 1. Accessories    * Calibration Kits: For regular calibration and maintenance.    * Sample Preparation Tools: Accessories for efficient soil sample processing.    * Protective Case: For storage and transport of the analyzer. | M |  |

LOT 5, ITEM No: 6 Flow Cytometer

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5 Item No 6 Flow Cytometer | | **Excitation Optics**  **Excitation Optical Platform**  The BD FACSCelesta optics layout accommodates two or three  lasers in one of four configurations.  BV10: 4 Blue (488 nm)/ 6 Violet (405 nm)  BVR12: 4 Blue (488 nm)/ 3 Red (640 nm)/ 5 Violet (405 nm)  BYV12: 2 Blue (488 nm)/ 4 Yellow-Green (561 nm)/  6 Violet (405 nm)  BUV12: 4 Blue (488 nm)/ 2 UV (355 nm)/ 6 Violet (405 nm)  **Laser Power**  355 nm: 15 mW  405 nm: 50 mW  488 nm: 20 mW  561 nm: 50 mW  640 nm: 40 Mw  **Flow Cell Design**  Rectangular quartz cuvette:  Internal cross-section, 430 x 180 μm  External quartz cuvette surfaces are anti-reflective coated for  optimal transmission of laser light.  Fixed optical assembly with spatially separated laser beams  **Emission Optics**  **Forward Scatter Detection**  Photodiode detector with a 488/10 bandpass (BP) filter  **Side Scatter Detector**  Photomultiplier tube (PMT) with a 488/10 BP filter  **Emission Optical Design**  Emitted light from the gel-coupled cuvette is delivered by  fiber optics to the detector arrays. The BD FACSCelesta optical  pathways use signal reflection to maximize signal detection.  Please see the filter guide at **bdbiosciences.com** for information  on dye and filter options.  Fluidics  **Operating Modes**  Front button panel provides three modes: RUN, STANDBY,  and PRIME.  **Sample Flow Rates**  Continuously adjustable flow rate, plus three preset flow rates:  LO: 12 μL/min  MED: 35 μL/min  HI: 60 μL/min  **Standard Fluidic Reservoirs**  One 10-L sheath container and one 10-L waste container  provided  **Sample Carryover**  <0.3% when acquiring from 12 x 75-mm tubes and running a  wash tube between samples  Data Management  Software: BD FACSDiva v8.0.1.1  Workstation  HP EliteDesk 800 G1 Mini PC  **Operating System**  Microsoft® Windows® 7 Professional (32-bit) OS  **Processor**  Intel® Core™ i5-4590T 2.0G 6M HD 4600 CPU  **RAM**  4 GB RAM  **Hard Drives**  500 GB SATA 6G 2.5 8G SSHD  **Networking**  Intel 7260 802.11 a/b/g/n M.2 NIC  **Monitor**  One 19-in. LCD 1,280 x 1,024 maximum resolution  **Printer**  Vary by region; please check with your local Sales Representative  Performance  **Fluorescence Sensitivity**  FITC: 25 molecules of equivalent soluble fluorochrome (MESF)  PE: 15 MESF  FITC and PE measurements were performed using SPHERO™  Rainbow Calibration Particles (RCP-30-5A).  **Fluorescence Resolution**  Coefficient of variation: Area of <3%, full G0/G1 peak for  propidium iodide (PI)-stained chicken erythrocyte nuclei (CEN)  **Fluorescence Linearity**  Doublet/singlet ratio of 1.95–2.05 for CEN stained with PI and  excited with the 488-nm blue laser  **Forward and Side Scatter Sensitivity**  Enables separation of fixed platelets from noise  **Forward and Side Scatter Resolution**  Scatter performance is optimized for resolving lymphocytes,  monocytes, and granulocytes.  **Side Scatter Resolution**  Enables separation of 0.3-μm beads from noise  **Data Acquisition Rate**  25,000 events/s with beads\*  **Power**  Operation at 100–240 VAC and 50 or 60 Hz  Maximum power: 250 watts  **Air Supply**  None required  **Electrical Requirements**  One dedicated circuit for the cytometer and the computer  system (including the printer) with a dedicated AC source  not shared with any other equipment | M |  |

LOT 5, ITEM No 7 Laminar Flow Cabinet

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5, Item No 7 Laminar Flow Cabinet | | General Information  - Laminar Air Flow Cabinets are designed for a particle-free working environment by taking air through a filtration system and exhausting it across a work surface in a laminar or unidirectional air stream. They are equipped with a 0.3 µm HEPA filter providing a sterile working environment. Have an LCD display and with waterproof socket. They are widely used in medical research laboratories, hospitals, manufacturing facilities and other research and production environments.  - External Size (W x D x H): 1300 x 820 x 2040 mm  - Internal Size (W x D x H): 1200 x 500 x 570 mm  - Work Surface Height: 750 mm  - Display: LCD Display  - Airflow Velocity: Average of 0.3~0.5m/s  - Work table material: 304 stainless steel  - Main body material: Cold-rolled steel with anti-bacteria powder coating  - Front and side window orientation: 5mm toughened glass, anti-UV  - Pre-filter: Polyester fiber, Washable  - HEPA Filter: 99.999% efficiency at 0.3μm  - Noise ≤65dB  - Front Window: Motorized  - Max Opening: 430 mm  - LED Lamp: 12W x 1  - UV Lamp: 30W x 1  - UV lamp emission: 253.7 nanometers  - Consumption: 400 W  - Waterproof Socket: Two, total load ≤ 500 W | M |  |

LOT 5, ITEM No:8 Ultra-Cool Field Metrology Well

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| Item No | Name of Goods or Related Service | Technical Specifications and Standards | Mandatory | Technical Specifications and Standards offered by supplier |
| Lot 5, Item No 8 Ultra-Cool Field Metrology Well | | 1. Temperature range at 23°C –95°C to 140°C (–139°F to 284°F)  2. Display accuracy ±0.2°C full range  3. Accuracy with external reference3 ±0.05°C full range  4. Stability ±0.015°C full range  5. Axial uniformity at 40 mm (1.6 in) ±0.05°C full range  6. Radial gradient  - ±0.01°C full range.  7. Loading effect: (with a 6.35 mm reference probe and three 6.35 mm probes)  - ±0.006°C full range (versus display with one 6.35 mm probe)  - ±0.25°C at –95°C  - ±0.10°C at 140°C  8. Operating conditions:  - 0°C to 35°C, 0% to 90%  - RH (non-condensing) < 2000 m altitude  9. Environmental conditions for all specifications except temperature range 13°C to 33°C  10. Immersion (well) depth: 160 mm (6.3 in)  11. Well diameter: 30 mm (1.18 in)  12. Heating time1: –95°C to 140°C: 40 min  13. Cooling time1: 23°C to –90°C: 80 min  - 23°C to –95°C: 90 min  - 140°C to 23°C: 60 min  14. Stabilization time 2: 15 min  15. Resolution: 0.01°  16. Display: LCD, °C or °F user selectable  17. Size (H x W x D): 480 x 205 x 380 mm (18.8 x 8.0 x 14.9 in)  18. Weight: 16 kg (35 lb)  19. Power requirements: 100 V to 115 V (±10%) 50/60 Hz, 575 W, 200 V to 230 V (±10%) 50/60 Hz, 575 W  20. System fuse ratings: 115 V: 6.3 A T 250 V, 230 V: 3.15 A T 250 V,  21. 4–20 mA fuse (-P model only): 50 mA F 250 V  22. Computer interface : RS-232, and USB Serial included  23. Safety: IEC 61010-1, Installation Category II, Pollution degree 2  24. Electromagnetic environment: IEC 61326-1: Basic  25. Refrigerants: R32 (Difluoromethane) < 20 g, ASHRAE safety group A2L R704 (Helium) < 20 g, ASHRAE safety group A1  -P Specifications  1. Built-in reference thermometer readout accuracy (4-wire reference probe)  - ±0.010°C at –95°C  - ±0.013°C at –25°C  - ±0.015°C at 0°  - ±0.020°C at 50°C  - ±0.025°C at 140°C  2. Reference resistance range: 0 Ω to 400 Ω  3. Reference resistance accuracy4:  - 0 Ω to 42 Ω: ±0.0025 Ω  - 42 Ω to 400 Ω: ±60 ppm of reading  4. Reference characterizations: ITS-90, CVD, IEC-751, resistance  5. Reference measurement capability 4 wire  6. Reference probe connection 6-pin din with INFO-CON technology  7. Built-in RTD thermometer readout accuracy:  - NI-120: ±0.015°C at 0°C  - PT-100 (385): ±0.02°C at 0°C  - PT-100 (3926): ±0.02°C at 0°C  - PT-100 (JIS): ±0.02°C at 0°C  - RTD resistance range 0 Ω to 400 Ω  8. Resistance accuracy4:  - 0 Ω to 25 Ω: ±0.002 Ω  - 25 Ω to 400 Ω: ±80 ppm of reading  9. RTD characterizations: PT-100 (385), (JIS), (3926), NI-120, resistance  10. RTD measurement capability 2-wire, 3-wire, and 4-wire RTD with jumpers only  11. RTD connection 4-terminal input  12. Built-in TC thermometer readout accuracy5  - Type J: ±0.70°C at 140°C  - Type K: ±0.75°C at 140°C  - Type T: ±0.60°C at 140°C  - Type E: ±0.60°C at 140°C  - Type R: ±1.60°C at 140°C  - Type S: ±1.60°C at 140°C  - Type M: ±0.65°C at 140°C  - Type L: ±0.65°C at 140°C  - Type U: ±0.70°C at 140°C  - Type N: ±0.75°C at 140°C  - Type C: ±1.00°C at 140°C  - TC millivolt range –10 mV to 75 mV  13. Voltage accuracy 0.025% of reading +0.01 mV  14. Internal cold junction compensation accuracy ±0.35°C (ambient of 13°C to 33°C)  15. TC connection Miniature connectors (ASTM E1684)  16. Built-in mA readout accuracy 0.02% of reading + 0.002 mA  26. mA range: Cal 4-22 mA, Spec 4-24 mA  27. mA connection: 2 terminal input  28. Loop power function: 24 V DC loop power  29. Built-in electronics temperature coefficient: (0°C to 13°C, 33°C to 50°C) ±0.005% of range per °C | M |  |
|  | | **The equipment to include**   * Commissioning and training. Offer must include 3 working Days On-Site Software/application training by a qualified personnel * After sales support * Must show proof of trained and certified technical service personnel.   Must provide a preventive maintenance plan including salient spare parts and pricing that will be required to operate the equipment optimally for one year. | M |  |

4. Drawings

This bidding document includes no drawings.

5. Inspections and Tests

The following inspections and tests shall be performed:

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| DESCRIPTION OF ITEM | INSPECTION AND TESTING SOURCE |
| Nuclear Magnetic Resonance (NMR) | Manufacture/Supplier Source |
| LC- Triple Quadrupole Mass Spectrometer (LC-MSMS) | Manufacture/Supplier Source |
| High Performance Liquid Chromatography (HPLC) | Manufacture/Supplier Source |
| MALDI TOF Mass Analyzer | Manufacture/Supplier Source |
| Gas Chromatography Mass Spectrometry (GC/MS) | Manufacture/Supplier Source |
| DNA Sequencer | Manufacture/Supplier Source |

PART 3 - Contract

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| Section VIII - General Conditions of Contract |

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**Section VIII - General Conditions of Contract**

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| 1. Definitions | | 1.1 The following words and expressions shall have the meanings hereby assigned to them: **“Bank”** means the World Bank and refers to the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).**“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.**“Contract Documents”** means the documents listed in the Contract Agreement, including any amendments thereto.**“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.**“Day”** means calendar day.**“Completion”** means the fulfillment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.**“GCC”** means the General Conditions of Contract.**“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.**“Purchaser’s Country”** is the country specified in the **Special Conditions of Contract** **(SCC).****“Purchaser”** means the entity purchasing the Goods and Related Services, as **specified in the SCC.****“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.**“SCC”** means the Special Conditions of Contract.**“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.**“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.**“The Project Site,”** where applicable, means the place named in the **SCC.** | |
| 1. Contract Documents | | 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. | |
| 1. Fraud and Corruption | | * 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.   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. | |
| 1. Interpretation | | 1. If the context so requires it, singular means plural and vice versa. 2. Incoterms  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**.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.  1. 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.   1. 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.   1. Nonwaiver  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.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.  1. 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. | |
| 1. Language | | * 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.   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. | |
| 1. Joint Venture, Consortium or Association | | * 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. | |
| 1. Eligibility | | * 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.   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. | |
| 1. Notices | | * 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.   2. A notice shall be effective when delivered or on the notice’s effective date, whichever is later. | |
| 1. Governing Law | * 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.**   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   * 1. (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. |
| 1. Settlement of Disputes | * 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.   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.**   3. Notwithstanding any reference to arbitration herein,      1. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and      2. the Purchaser shall pay the Supplier any monies due the Supplier. |
| 1. Inspections and Audit by the Bank | 1. The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors 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. 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). |
| 1. Scope of Supply | 1. The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements. |
| 1. Delivery and Documents | 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.** |
| 1. Supplier’s Responsibilities | 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. 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. 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. 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. 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). 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. 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: 8. with exposure to physical, psychological or sexual abuse; 9. underground, underwater, working at heights or in confined spaces; 10. with dangerous machinery, equipment or tools, or involving handling or transport of heavy loads; 11. in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or 12. under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer. 13. 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. The Supplier shall comply with additional obligations as **specified in the SCC.** |
| 1. Contract Price | 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.** |
| 1. Terms of Payment | 1. The Contract Price, including any Advance Payments, if applicable, shall be paid as specified in the **SCC.** 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. 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. 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. 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. |
| 1. Taxes and Duties | 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. |
| 1. Performance Security | 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.** 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. 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. 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.** |
| 1. Copyright | 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. |
| 1. Confidential Information | 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. 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. 3. The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:  the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;now or hereafter enters the public domain through no fault of that party;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; orotherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.  1. 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. 2. The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract. |
| 1. Subcontracting | 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. 2. Subcontracts shall comply with the provisions of GCC Clauses 3 and 7. |
| 1. Specifications and Standards | 1. Technical Specifications and Drawings  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.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.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. |
| 1. Packing and Documents | 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. 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. |
| 1. Insurance | 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.** |
| 1. Transportation and Incidental Services | 1. Unless otherwise specified in the **SCC,** responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms. |
|  | 1. 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.   1. 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 |
| 1. Inspections and Tests | 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.** 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. 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. 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. 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. 6. The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection. 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. 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. |
| 1. Liquidated Damages | 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. |
| 1. Warranty | 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. 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. 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. 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. 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. 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. |
| 1. Patent Indemnity | 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:  the installation of the Goods by the Supplier or the use of the Goods in the country where the Site is located; andthe 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.  1. 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. 2. 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. 3. 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. 4. `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. |
| 1. Limitation of Liability | 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 |
| 1. Change in Laws and Regulations | 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. |
| 1. Force Majeure | 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. 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. 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. |
| 1. Change Orders and Contract Amendments | 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:  drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;the method of shipment or packing;the place of delivery; andthe Related Services to be provided by the Supplier.  1. 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. 2. 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. 3. **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; 4. the proposed change(s), and a description of the difference to the existing contract requirements; 5. 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 6. 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:   1. accelerates the delivery period; or 2. reduces the Contract Price or the life cycle costs to the Purchaser; or 3. improves the quality, efficiency or sustainability of the Goods; or 4. 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:   1. 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 2. 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. 3. 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. |
| 1. Extensions of Time | 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. 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. |
| 1. Termination | 1. Termination for Default  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: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;if the Supplier fails to perform any other obligation under the Contract; orif the Supplier, in the judgment of the Purchaser has engaged in Fraud and Corruption, as defined in paragrpah 2.2 a of the Appendix 1 to the GCC, in competing for or in executing the Contract.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.  1. Termination for Insolvency.  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  * 1. Termination for Convenience.  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.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:to have any portion completed and delivered at the Contract terms and prices; and/orto 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. |
| 1. Assignment | 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. |
| 1. Export Restriction | 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. |

**APPENDIX 1**

**Fraud and Corruption**

***(Text in this Appendix shall not be modified)***

1. **Purpose**
   1. The Bank’s Anti-Corruption Guidelines and this annex apply with respect to procurement under Bank Investment Project Financing operations.
2. **Requirements**
3. 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.
4. To this end, the Bank:
5. Defines, for the purposes of this provision, the terms set forth below as follows:
6. “corrupt practice” is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
7. “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;
8. “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;
9. “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;
10. “obstructive practice” is:
11. 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
12. acts intended to materially impede the exercise of the Bank’s inspection and audit rights provided for under paragraph 2.2 e. below.
13. 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;
14. 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;
15. 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;[[5]](#footnote-6) (ii) to be a nominated[[6]](#footnote-7) 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;
16. 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 inspect[[7]](#footnote-8) 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.

**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** |
| We:   (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.   (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.   (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. |
| **[*If (c) above is applicable*, *attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]*** |
|  |
| Period of disqualification: From: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ To: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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*.*  *[The Purchaser shall select insert the appropriate wording using the samples below or other acceptable wording, and delete the text in italics]* | |
| **GCC 1.1(i)** | The Purchaser’s Country is: Government of Malawi |
| **GCC 1.1(j)** | The Purchaser is: Ministry of Transport and Public Works |
| **GCC 1.1(o)** | The Project Site(s)/Final Destination(s) are: Malawi Bureau of Standards, Department of Agriculture Research and Department of Animal Health and Livestock Development |
| **GCC 1.1 (p)** | The term **SEA/SH** where used in the Contract has the following meaning:“**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 contractor’s personnel with other contractor’s, subcontractors’ or employer’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: Incoterms 2020 |
| **GCC 4.2 (b)** | The version edition of Incoterms shall be Incoterms 2020 |
| **GCC 5.1** | The language shall be: English |
| **GCC 8.1** | For **notices**, the Purchaser’s address shall be:  Attention: IPDC Chairperson  Ministry of Transport and Public Works  Southern Africa and Trade and Connectivity  Street Address: Capital hill, City Centre  Floor/ Room number: Ground Floor Room 31  City: Lilongwe  Country: Malawi  Telephone: +265985069633  Electronic mail address: [procurement@satcp.mw](mailto:procurement@satcp.mw) |
| **GCC 9.1** | The governing law shall be the law of*:* Republic of Malawi |
| **GCC 10.2** | The rules of procedure for arbitration proceedings pursuant to GCC Clause 10.2 shall be as follows:  ***(a)* Contract with foreign Supplier:**  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. |
| **GCC 13.1** | Details of Shipping and other Documents to be furnished by the Supplier are negotiable bill of lading, a non-negotiable sea way bill, consignment note, a road consignment note, insurance certificate, Manufacturer’s or Supplier’s warranty certificate, inspection certificate issued by nominated inspection agency, Supplier’s factory shipping details |
| **GCC 14.9** | GCC 14.9.1 The Supplier shall have a code of conduct, and provide appropriate sensitization, for the Supplier’s personnel carrying out installation and maintenancethat include, but not limited to, maintaining a safe working environment and not engaging in the following practices:   1. any form of sexual harassment including unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Supplier’s or Purchaser’s personnel; 2. any form of sexual exploitation, which means 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; 3. any form of sexual abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions; and 4. any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage.   GCC 14.9.2 The Purchaser may require the Supplier to remove (or cause to be removed), from the site or other places where the installation and maintenance is being executed, a Supplier’s personnel that undertakes behaviors that are not consistent with the code of conduct stated in GCC 14.9.1. Notwithstanding any requirement from the Purchaser to replace any such person, the Supplier shall immediately remove (or cause to be removed) any such person, from the site or other places where the installation and maintenance is being executed. In either case, the Supplier shall promptly appoint, as appropriate, a suitable replacement with equivalent skills and experience. |
| **GCC 15.1** | The prices charged for the Goods supplied and the related Services performed shall not, be adjustable. |
| **GCC 16.1** | GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:  **Payment for Goods supplied from abroad:**  Payment of foreign currency portion shall be made in *[insert currency of the Contract Price]* in the following manner:  (i) **Advance Payment:** Ten (10) percent of the 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:** Eighty (50) percent of the 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:** Ten (40) percent of the 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.  Payment of local currency portion shall be made in Malawi Kwachawithin 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.  **Payment for Goods and Services supplied from within the Purchaser’s Country:**  Payment for Goods and Services supplied from within the Purchaser’s Country shall be made in Malawi Kwacha, as follows:  (i) **Advance Payment:** Ten (10) percent of the 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:** Eighty (50) percent of the 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 ten (40) percent of the 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. |
| **GCC 16.5** | The payment-delay period after which the Purchaser shall pay interest to the supplier shall be 30days.  The interest rate that shall be applied is 5 *%* |
| **GCC 18.1** | A Performance Security s*hall be required*  *the amount of the Performance Security shall be:10%* |
| **GCC 18.3** | If required, the Performance Security shall be in the form of:  *a Performance Bond*  If required, the Performance security shall be denominated in a *freely convertible currency acceptable to the Purchaser* |
| **GCC 18.4** | Discharge of the Performance Security shall take place: 30 days after the contract completion |
| **GCC 23.2** | The packing, marking and documentation within and outside the packages shall be: as advised by the purchaser |
| **GCC 24.1** | The insurance coverage shall be as specified in the Incoterms*.* |
| **GCC 25.1** | Responsibility for transportation of the Goods shall be as specified in the Incoterms. |
| **GCC 25.2** | Incidental services to be provided are: N/A |
| **GCC 26.1** | The inspections and tests shall be:  Instrument qualification will be done through physical verification through visual inspection and testing of the following parameters;  Confirmation of a factory performance test (FAT)  Design qualification which will include verification of the equipment functional and operational performance against specified user requirement specification.  Verification of calibration against specified performance criteria |
| **GCC 26.2** | The Inspections and tests shall be conducted at: at the Manufacturers premises before delivery to the purchaser country for the below stated items   1. Nuclear Magnetic Resonance (NMR) 2. LC- Triple Quadrupole Mass Spectrometer (LC-MSMS) 3. High Performance Liquid Chromatography (HPLC) 4. MALDI TOF Mass Analyzer 5. Gas Chromatography Mass Spectrometry (GC/MS) |
| **GCC 27.1** | The liquidated damage shall be:0.5% of the contract price 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: 365 days  For purposes of the Warranty, the place(s) of final destination(s) shall be:  Malawi Bureau of Standards, Department of Agriculture Research and Department of Animal Health and Livestock Development  GCC 28.3—In partial modification of the provisions, the warranty period shall be 36 months from date of acceptance of the Goods. The Supplier shall, in addition, comply with the performance and/or consumption guarantees specified under the Contract. If, for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall, at its discretion, either:  (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with GCC 26.7,  **or**  (b) pay liquidated damages to the Purchaser with respect to the failure to meet the contractual guarantees. The rate of these liquidated damages shall be 0.50%. |
| **GCC 28.5, GCC 28.6** | The period for repair or replacement shall be: 30 days. |
| **GCC 33.4** | If the value engineering proposal is approved by the Purchaser the amount to be paid to the Supplier shall be 0.00%. |

**Attachment: Price Adjustment Formula**

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:

P1 = P0 [a + bL1 + cM1] - P0

L0 M0

a+b+c = 1

in which:

P1 = adjustment amount payable to the Supplier.

P0 = 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.

L0, L1 = \*labor indices applicable to the appropriate industry in the country of origin on the base date and date for adjustment, respectively.

M0, M1 = \*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 source of exchange rate (if applicable) and the base date indices in its Bid.

The coefficients a, b, and c as specified by the Purchaser are as follows:

a = *[insert value of coefficient]*

b = *[insert value of coefficient]*

c = *[insert value of coefficient]*

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

Date of adjustment = *[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:

* + 1. 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.
    2. If the currency in which the Contract Price P0 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: Z0 / Z1, where,

Z0 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P0 on the Base date, and

Z1 = the number of units of currency of the origin of the indices which equal to one unit of the currency of the Contract Price P0 on the Date of Adjustment.

* + 1. 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.*]**

**[*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:

1. request a debriefing in relation to the evaluation of your Bid, and/or
2. submit a Procurement-related Complaint in relation to the decision to award the contract.
3. **The successful Bidder**

|  |  |
| --- | --- |
| **Name:** | [*insert name* *of successful Bidder*] |
| **Address:** | [*insert address* *of the successful Bidder*] |
| **Contract price:** | [*insert contract price* *of the successful Bid*] |

1. **Other Bidders *[INSTRUCTIONS: insert names of all Bidders that submitted a Bid. If the Bid’s price was evaluated include the evaluated price as well as the Bid price as read out.]***

|  |  |  |
| --- | --- | --- |
| **Name of Bidder** | **Bid price** | **Evaluated Bid price**  **(if applicable)** |
| [*insert name*] | [*insert Bid price*] | [*insert evaluated price*] |
| [*insert name*] | [*insert Bid price*] | [*insert evaluated price*] |
| [*insert name*] | [*insert Bid price*] | [*insert evaluated price*] |
| [*insert name*] | [*insert Bid price*] | [*insert evaluated price*] |
| [*insert name*] | [*insert Bid price*] | [*insert evaluated price*] |

1. **Reason/s why your Bid was unsuccessful**

|  |
| --- |
| ***[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.]*** |

1. **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. |

1. **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](https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005) (Procurement Regulations)[https://policies.worldbank.org/sites/ppf3/PPFDocuments/Forms/DispPage.aspx?docid=4005] (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](http://www.worldbank.org/en/projects-operations/products-and-services/brief/procurement-new-framework#framework)” [http://www.worldbank.org/en/projects-operations/products-and-services/brief/procurement-new-framework#framework] 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). |

1. **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 Bidder. 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

*[use 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 Form*s* and (ii) the additional information on beneficial ownership in accordance with BDS ITB 45.1 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.

1. the Letter of Acceptance
2. the Letter of Bid
3. the Addenda Nos.\_\_\_\_\_ (if any)
4. Special Conditions of Contract
5. General Conditions of Contract
6. the Specification (including Schedule of Requirements and Technical Specifications)
7. the completed Schedules (including Price Schedules)
8. 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]*,[[8]](#footnote-9)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…[[9]](#footnote-10)2, and any demand for payment under it must be received by us at this 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, 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.***

**Option 2: Performance Bond**

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][[10]](#footnote-11)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:

* + 1. has used the advance payment for purposes other than toward delivery of Goods; or
    2. has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.

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.

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\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   
*[signature(s)]*

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

1. 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. [↑](#footnote-ref-2)
2. 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. [↑](#footnote-ref-3)
3. 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. [↑](#footnote-ref-4)
4. 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. [↑](#footnote-ref-5)
5. 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. [↑](#footnote-ref-6)
6. 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. [↑](#footnote-ref-7)
7. 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. [↑](#footnote-ref-8)
8. *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.* [↑](#footnote-ref-9)
9. *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 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.”* [↑](#footnote-ref-10)
10. 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.* [↑](#footnote-ref-11)