

PROCUREMENT DOCUMENT

Request for Bid **PROCUREMENT OF PORTAL HIGH ENERGY** **SCANNERS**

Country:	Pakistan		
Project Name:	Pakistan Raises Revenue Project		
Implementing Agency:	Federal Board of Revenue		
Credit No:	IDA-6435-PAK		
Project ID No:	P165982		
Activity No.:	PK-FBR-384526-GO-RFB		
RFB No:	1(14)DD(P&CM)/2023		
Procurement Method:	Open Competitive Bidding (OCB) – International		
Bidding Procedure:	Single Stage-Two Envelopes		
Bids' Submission Date & Time:	Date:	4 th April 2024	Time: 1100 hours PST



FEDERAL BOARD OF REVENUE

Revenue Division, Government of Pakistan

Procurement Document

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PART 1 – Bidding Procedures

Section I - Instructions to Bidders

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Section I - Instructions to Bidders

A. General

1. Scope of Bid

- 1.1 In connection with the Specific Procurement Notice, Request for Bids (RFB), specified **in the Bid Data Sheet (BDS)**, the Purchaser, as specified **in the BDS**, issues this bidding document for the supply of Goods and, if applicable, any Related Services incidental thereto, as specified in Section VII, Schedule of Requirements. The name, identification and number of lots (contracts) of this RFB are specified **in the BDS**.
- 1.2 Throughout this bidding document:
 - (a) the term “in writing” means communicated in written form (e.g. by mail, e-mail, fax, including, if **specified in the BDS**, distributed or received through the electronic-procurement system used by the Purchaser), with proof of receipt;
 - (b) if the context so requires, “singular” means “plural” and vice versa; and
 - (c) “Day” means calendar day, unless otherwise specified as “Business Day”. A Business Day is any day that is an official working day of the Borrower. It excludes the Borrower’s official public holidays.

2. Source of Funds

- 2.1 The Borrower or Recipient (hereinafter called “Borrower”) specified **in the BDS** has applied for or received financing (hereinafter called “funds”) from the International Bank for Reconstruction and Development or the International Development Association (hereinafter called “the Bank”) in an amount specified **in the BDS**, toward the project named **in the BDS**. The Borrower intends to apply a portion of the funds to eligible payments under the contract for which this bidding document is issued.
- 2.2 Payment by the Bank will be made only at the request of the Borrower and upon approval by the Bank in accordance with the terms and conditions of the Loan (or other financing) Agreement. The Loan (or other financing) Agreement prohibits a withdrawal from the loan account for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import is prohibited by a

decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations. No party other than the Borrower shall derive any rights from the Loan (or other financing) Agreement or have any claim to the proceeds of the Loan (or other financing).

3. Fraud and Corruption

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

4. Eligible Bidders

- 4.1 A Bidder may be a firm that is a private entity, a state-owned enterprise or institution (subject to ITB 4.6), or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the Bidding process and, in the event the JV is awarded the Contract, during contract execution. Unless specified **in the BDS**, there is no limit on the number of members in a JV.
- 4.2 A Bidder shall not have a conflict of interest. Any Bidder found to have a conflict of interest shall be disqualified. A Bidder may be considered to have a conflict of interest for the purpose of this Bidding process, if the Bidder:
 - (a) directly or indirectly controls, is controlled by or is under common control with another Bidder; or

- (b) receives or has received any direct or indirect subsidy from another Bidder; or
 - (c) has the same legal representative as another Bidder; or
 - (d) has a relationship with another Bidder, directly or through common third parties, that puts it in a position to influence the Bid of another Bidder, or influence the decisions of the Purchaser regarding this Bidding process; or
 - (e) or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the works that are the subject of the Bid; or
 - (f) or any of its affiliates has been hired (or is proposed to be hired) by the Purchaser or Borrower for the Contract implementation; or
 - (g) would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the project specified in the BDS reference ITB 2.1 (the name of the project), that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; or
 - (h) has a close business or family relationship with a professional staff of the Borrower (or of the project implementing agency, or of a recipient of a part of the loan) who: (i) are directly or indirectly involved in the preparation of the bidding document or specifications of the Contract, and/or the Bid evaluation process of such Contract; or (ii) would be involved in the implementation or supervision of such Contract unless the conflict stemming from such relationship has been resolved in a manner acceptable to the Bank throughout the Bidding process and execution of the Contract.
- 4.3 A firm that is a Bidder (either individually or as a JV member) shall not participate in more than one Bid, except for permitted alternative Bids. This includes participation as a subcontractor. Such participation shall result in the disqualification of all Bids in which

the firm is involved. A firm that is not a Bidder or a JV member, may participate as a subcontractor in more than one Bid.

- 4.4 A Bidder may have the nationality of any country, subject to the restrictions pursuant to ITB 4.8. A Bidder shall be deemed to have the nationality of a country if the Bidder is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed subcontractors or subconsultants for any part of the Contract including related Services.
- 4.5 A Bidder that has been sanctioned by the Bank, pursuant to the Bank's Anti-Corruption Guidelines, and in accordance with its prevailing sanctions policies and procedures as set forth in the WBG's Sanctions Framework as described in Section VI paragraph 2.2 d. shall be ineligible to be prequalified for, initially selected for, bid for, propose for, or be awarded a Bank-financed contract or benefit from a Bank-financed contract, financially or otherwise, during such period of time as the Bank shall have determined. The list of debarred firms and individuals is available at the electronic address specified in the BDS.
- 4.6 Bidders that are state-owned enterprises or institutions in the Purchaser's Country may be eligible to compete and be awarded a Contract(s) only if they can establish, in a manner acceptable to the Bank, that they (i) are legally and financially autonomous (ii) operate under commercial law, and (iii) are not under supervision of the Purchaser.
- 4.7 A Bidder shall not be under suspension from Bidding by the Purchaser as the result of the operation of a Bid-Securing Declaration or Proposal-Securing Declaration.
- 4.8 Firms and individuals may be ineligible if so indicated in Section V, Eligible Countries, and:
 - (a) as a matter of law or official regulations, the Borrower's country prohibits commercial relations with that country, provided that the Bank is satisfied that such exclusion does not preclude effective competition for the supply

of goods or the contracting of works or services required; or

- (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

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

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

- (a) relates to fraud or corruption; and

- (b) followed a judicial or administrative proceeding that afforded the firm adequate due process.

5. Eligible Goods and Related Services

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

5.2 For purposes of this ITB, the term "goods" includes commodities, raw material, machinery, equipment, and industrial plants; and "related services" includes services such as insurance, installation, training, and initial maintenance.

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

B. Contents of Request for Bids Document

6. Sections of Bidding Document

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

PART 1 Bidding Procedures

- Section I - Instructions to Bidders (ITB)

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

PART 2 Supply Requirements

- Section VII - Schedule of Requirements

PART 3 Contract

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

- 6.2 The Specific Procurement Notice - Request for Bids (RFB) issued by the Purchaser is not part of this bidding document.
- 6.3 Unless obtained directly from the Purchaser, the Purchaser is not responsible for the completeness of the document, responses to requests for clarification, the Minutes of the pre-Bid meeting (if any), or addenda to the bidding document in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Purchaser shall prevail.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding document and to furnish with its Bid all information or documentation as is required by the bidding document.

7. Clarification of the Bidding Document

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

response at the web page identified **in the BDS**. Should the clarification result in changes to the essential elements of the bidding document, the Purchaser shall amend the bidding document following the procedure under ITB 8 and ITB 22.2.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of Bids, the Purchaser may amend the bidding document by issuing addenda.
- 8.2 Any addendum issued shall be part of the bidding document and shall be communicated in writing to all who have obtained the bidding document from the Purchaser in accordance with ITB 6.3. The Purchaser shall also promptly publish the addendum on the Purchaser's web page in accordance with ITB 7.1.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Purchaser may, at its discretion, extend the deadline for the submission of Bids, pursuant to ITB 22.2.

C. Preparation of Bids

9. Cost of Bidding

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

10. Language of Bid

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

11. Documents comprising Bid

- 11.1 The Bid shall comprise two Parts, namely the Technical Part and the Financial Part. These two Parts shall be submitted simultaneously in two separate sealed envelopes (two-envelope Bidding process). One envelope shall contain only information relating to the Technical Part and the other, only information relating to the Financial Part. These two envelopes shall be

enclosed in a separate sealed outer envelope marked “ORIGINAL BID”.

11.2 The **Technical Part** shall contain the following:

- (a) **Letter of Bid - Technical Part:** prepared in accordance with ITB 12;
- (b) **Bid Security** or **Bid-Securing Declaration:** in accordance with ITB 19.1;
- (c) **Alternative Bid - Technical Part:** if permissible in accordance with ITB 13, the Technical Part of any Alternative Bid;
- (d) **Authorization:** written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 20.3;
- (e) **Bidder's Eligibility:** documentary evidence in accordance with ITB 17 establishing the Bidder's eligibility to Bid;
- (f) **Qualifications:** documentary evidence in accordance with ITB 17 establishing the Bidder's qualifications to perform the Contract if its Bid is accepted;
- (g) **Eligibility of Goods and Related Services:** documentary evidence in accordance with ITB 16, establishing the eligibility of the Goods and Related Services to be supplied by the Bidder;
- (h) **Conformity:** documentary evidence in accordance with ITB 16, that the Goods and Related Services conform to the bidding document;
- (i) any other document **required in the BDS.**

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

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

11.4 The Technical Part shall not include any financial information related to the Bid price. Where material

financial information related to the Bid price is contained in the Technical Part the Bid shall be declared non-responsive.

- 11.5 In addition to the requirements under ITB 11.2, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Bid shall be signed by all members and submitted with the Bid, together with a copy of the proposed Agreement.
- 11.6 The Bidder shall furnish in the Letter of Bid information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Bid.

12. Letters of Bid

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

13. Alternative Bids

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

14. Bid prices and Discounts

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

pursuant to ITB 31. However, if in accordance with the BDS, prices quoted by the Bidder shall be subject to adjustment during the performance of the Contract, a Bid submitted with a fixed price quotation shall not be rejected, but the price adjustment shall be treated as zero.

- 14.6 If so specified in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Unless otherwise specified **in the BDS**, prices quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of a lot. Bidders wishing to offer discounts for the award of more than one Contract shall specify in their Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package. **However, discounts that are conditional on the award of more than one lot will not be considered for bid evaluation purpose.**
- 14.7 The terms EXW, CIP, and other similar terms shall be governed by the rules prescribed in the current edition of Incoterms, published by the International Chamber of Commerce, as specified **in the BDS**.
- 14.8 Prices shall be quoted as specified in each Price Schedule included in Section IV, Bidding Forms. The disaggregation of price components is required solely for the purpose of facilitating the comparison of Bids by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Bidder shall be free to use transportation through carriers registered in any eligible country, in accordance with Section V, Eligible Countries. Similarly, the Bidder may obtain insurance services from any eligible country in accordance with Section V, Eligible Countries. Prices shall be entered in the following manner:
- (a) For Goods manufactured in the Purchaser's Country:
 - (i) the price of the Goods quoted EXW (ex-works, ex-factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and sales and other taxes

already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;

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

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

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

15. Currencies of Bid and Payment

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

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

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

Services, demonstrating substantial responsiveness of the Goods and Related Services to the technical specification, and if applicable, a statement of deviations and exceptions to the provisions of the Section VII, Schedule of Requirements.

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

17. Documents Establishing the Eligibility and Qualifications of the Bidder

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

able to carry out the Supplier's maintenance, repair and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Technical Specifications; and

- (c) that the Bidder meets each of the qualification criterion specified in Section III, Evaluation and Qualification Criteria.

18. Period of Validity of Bids

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

19. Bid Security

- 19.1. The Bidder shall furnish, as part of the Technical Part of its Bid, either a Bid-Securing Declaration or a Bid Security, as specified **in the BDS**, in original form and, in the case of a Bid security, in the amount and currency specified **in the BDS**.

- 19.2. A Bid Securing Declaration shall use the form included in Section IV, Bidding Forms.
- 19.3. If a Bid Security is specified pursuant to ITB 19.1, the Bid security shall be a demand guarantee in any of the following forms at the Bidder's option:
- (a) an unconditional guarantee issued by a bank or non-bank financial institution (such as an insurance, bonding or surety company);
 - (b) an irrevocable letter of credit;
 - (c) a cashier's or certified check; or
 - (d) another security **specified in the BDS**,
- from a reputable source from an eligible country. If an unconditional guarantee is issued by a non-bank financial institution located outside the Purchaser's Country the issuing non-bank financial institution shall have a correspondent financial institution located in the Purchaser's Country to make it enforceable unless the Purchaser has agreed in writing, prior to Bid submission, that a correspondent financial institution is not required. In the case of a bank guarantee, the Bid security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms, or in another substantially similar format approved by the Purchaser prior to Bid submission. The Bid security shall be valid for twenty-eight (28) days beyond the original date of expiry of the Bid validity, or beyond any extended date if requested under ITB 18.2.
- 19.4. If a Bid Security is specified pursuant to ITB 19.1, any Bid not accompanied by a substantially responsive Bid Security shall be rejected by the Purchaser as non-responsive.
- 19.5. If a Bid Security is specified pursuant to ITB 19.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing the contract and furnishing the Performance Security pursuant to ITB 49.
- 19.6. The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.
- 19.7. The Bid Security may be forfeited:

- (a) if a Bidder withdraws its Bid prior to the expiry date of Bid validity specified by the Bidder on the Letter of Bid or any extended date provided by the Bidder ; or
 - (b) if the successful Bidder fails to:
 - (i) sign the Contract in accordance with ITB 48; or
 - (ii) furnish a performance security in accordance with ITB 49.
- 19.8. The Bid Security or Bid-Securing Declaration of a JV must be in the name of the JV that submits the Bid. If the JV has not been legally constituted into a legally enforceable JV at the time of Bidding, the Bid security or Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.5.
- 19.9. If a Bid security is **not required in the BDS**, pursuant to ITB 19.1, and
- (a) if a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Letter of Bid, or any extended date provided by the Bidder, or
 - (b) if the successful Bidder fails to: sign the Contract in accordance with ITB 48; or furnish a performance security in accordance with ITB 49;

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

20. Format and Signing of Bid

- 20.1 The Bidder shall prepare the Bid, in accordance with ITB 11 and ITB 21.
- 20.2 Bidders shall mark as “CONFIDENTIAL” information in their Bids which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- 20.3 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation **as specified in the BDS** and shall be attached to the Bid. The name and position held by each person signing the

authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.

- 20.4 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 20.5 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

D. Submission of Bids

21. Sealing and Marking of Bids

- 21.1 The Bidder shall deliver the Bid in two separate, sealed **envelopes** (the Technical Part and the Financial Part). These two envelopes shall be enclosed in a sealed outer envelope marked "ORIGINAL BID".
- 21.2 In addition, the Bidder shall submit copies of the Bid in the number specified **in the BDS**. Copies of the Technical Part shall be placed in a separate sealed envelope marked "COPIES: TECHNICAL PART". Copies of the Financial Part shall be placed in a separate sealed envelope marked "COPIES: FINANCIAL PART". The Bidder shall place both of these envelopes in a separate, sealed outer envelope marked "BID COPIES". In the event of any discrepancy between the original and the copies, the original shall prevail. If alternative Bids are permitted in accordance with ITB 13, the alternative Bids shall be submitted as follows: the original of the alternative Bid Technical Part shall be placed in a sealed envelope marked "ALTERNATIVE BID – TECHNICAL PART" and the Financial Part shall be placed in a sealed envelope marked "ALTERNATIVE BID – FINANCIAL PART" and these two separate sealed envelopes then enclosed within a sealed outer envelope marked "ALTERNATIVE BID – ORIGINAL", the copies of the alternative Bid will be placed in separate sealed envelopes marked "ALTERNATIVE BID – COPIES OF TECHNICAL PART", and "ALTERNATIVE BID – COPIES OF FINANCIAL PART" and enclosed in a separate sealed outer envelope marked "ALTERNATIVE BID - COPIES".
- 21.3 The envelopes marked "ORIGINAL BID" and "BID COPIES" (and, if appropriate, a third envelope marked "ALTERNATIVE BID") shall be enclosed in a

separate sealed outer envelope for submission to the Purchaser.

21.4 All inner and outer envelopes, shall:

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

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

22. Deadline for Submission of Bids

22.1. Bids must be received by the Purchaser at the address and no later than the date and time specified **in the BDS**. When so specified **in the BDS**, Bidders shall have the option of submitting their Bids electronically. Bidders submitting Bids electronically shall follow the electronic Bid submission procedures specified **in the BDS**.

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

23. Late Bids

23.1. The Purchaser shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 23. Any Bid received by the Purchaser after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

24. Withdrawal, Substitution, and Modification of Bids

24.1. A Bidder may withdraw, substitute, or modify its Bid after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization (the power of attorney) in accordance with ITB 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

- (a) prepared and submitted in accordance with ITB 20 and ITB 21 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” or “MODIFICATION;” and
 - (b) received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB 22.
- 24.2. Bids requested to be withdrawn in accordance with ITB 24.1 shall be returned unopened to the Bidders.
- 24.3. No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Letter of Bid - Technical Part and repeated in the Letter of Bid - Financial Part, or any extension thereof.

E. Public Opening of Technical Parts of Bids

25. Public Opening of Technical Parts of Bids

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

- substituted Bid shall not be opened, but returned to the Bidder. No Bid substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Bid opening.
- 25.4. Next, envelopes marked “MODIFICATION” shall be opened and read out with the corresponding Bid. No Bid modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and is read out at Bid opening. Only Bids that are opened and read out at Bid opening shall be considered further.
- 25.5. Next, all other envelopes marked “TECHNICAL PART” shall be opened one at a time. All envelopes marked “FINANCIAL PART” shall remain sealed, and kept by the Purchaser in safe custody until they are opened, at a later public opening, following the evaluation of the Technical Part of the Bids. On opening the envelopes marked “TECHNICAL PART” the Purchaser shall read out: the name of the Bidder and whether there is a modification; and Alternative Bid the presence or absence of a Bid Security, if required and any other details as the Purchaser may consider appropriate.
- 25.6. Only Technical Parts of Bids and Alternative Bid - Technical Parts that are read out at Bid opening shall be considered further in the evaluation. The Letter of Bid – Technical Part and the separate sealed envelope marked “FINANCIAL PART” are to be initialed by representatives of the Purchaser attending Bid opening in the manner specified **in the BDS.**
- 25.7. At the Bid opening the Purchaser shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 23.1).
- 25.8. Following the opening of the Technical Parts of the Bid the Purchaser shall prepare a record that shall include, as a minimum:
- (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;
 - (b) the presence or absence of a duly sealed envelope marked “FINANCIAL PART”;

(c) the presence or absence of a Bid Security or Bid-Securing Declaration; and

(d) if applicable, any Alternative Bid - Technical Part;

25.9. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

F. Evaluation of Bids - General Provisions

26. Confidentiality

26.1 Information relating to the evaluation of the Technical Part shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the notification of evaluation of the Technical Part in accordance with ITB 33. Information relating to the evaluation of Financial Part, the evaluation of combined Technical Part and Financial Part, and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with the RFB process until the Notification of Intention to Award the Contract is transmitted to Bidders in accordance with ITB 43.

26.2 Any effort by a Bidder to influence the Purchaser in the evaluation or contract award decisions may result in the rejection of its Bid.

26.3 Notwithstanding ITB 26.2, from the time of Bid opening to the time of Contract Award, if any Bidder wishes to contact the Purchaser on any matter related to the Bidding process, it should do so in writing.

27. Clarification of Bids

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

the Purchaser in the Evaluation of the Bids, in accordance with ITB 35.

- 27.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Purchaser's request for clarification, its Bid may be rejected.

28. Deviations, Reservations, and Omissions

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

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

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

29. Nonconformities, Errors and Omissions

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

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

G. Evaluation of Technical Parts of Bids

30. Evaluation of Technical Parts

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

31. Determination of Responsiveness

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

material deviation, reservation, or omission is one that:

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

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

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

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

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

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

32.3 Prior to Contract award, the Purchaser will verify that the successful Bidder (including each member of a JV) is not disqualified by the Bank due to noncompliance with contractual SEA/SH

prevention and response obligations. The Purchaser will conduct the same verification for each subcontractor proposed by the successful Bidder. If any proposed subcontractor does not meet the requirement, the Purchaser will require the Bidder to propose a replacement subcontractor.

- 32.4 Only substantially responsive bids submitted by eligible and qualified bidders shall proceed to the detailed technical evaluation to assess adequacy of the Technical Part followed by evaluation applying technical factors/subfactors and corresponding scores as specified in the BDS.

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

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

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

- (b) their envelope marked “FINANCIAL PART” will be opened at the public opening of Financial Parts;
 - (c) notify them of the date, time and location of the public opening of the envelopes marked “FINANCIAL PART”.
- 33.3 The opening date shall be not less than ten (10) Business Days from the date of notification of the results of the technical evaluation, specified in ITB 33.1 and 33.2. However, if the Purchaser receives a complaint on the results of the technical evaluation within the ten (10) Business Days, the opening date shall be subject to ITB 48.1. The Financial Part of the Bid shall be opened publicly in the presence of Bidders’ designated representatives and anyone who chooses to attend.
- 33.4 At this public opening the Financial Parts will be opened by the Purchaser in the presence of Bidders, or their designated representatives and anyone else who chooses to attend. Bidders who met the Qualification Criteria and whose Bids were evaluated as substantially responsive will have their envelopes marked “FINANCIAL PART” opened at the second public opening. Each of these envelopes marked “FINANCIAL PART” shall be inspected to confirm that they have remained sealed and unopened. These envelopes shall then be opened by the Purchaser. The Purchaser shall read out the names of each Bidder, the technical score and the total Bid prices, per lot (contract) if applicable, including any discounts and Alternative Bid - Financial Part, and any other details as the Purchaser may consider appropriate.
- 33.5 Only envelopes of Financial Part of Bids, Financial Parts of Alternative Bids and discounts that are opened and read out at Bid opening shall be considered further for evaluation. The Letter of Bid - Financial Part and the Price Schedules are to be initialed by a representative of the Purchaser attending the Bid opening in the manner specified **in the BDS**.
- 33.6 The Purchaser shall neither discuss the merits of any Bid nor reject any envelopes marked “FINANCIAL PART”.

- 33.7 The Purchaser shall prepare a record of the Financial Part of the Bid opening that shall include, as a minimum:
- (a) the name of the Bidder whose Financial Part was opened;
 - (b) the Bid price, per lot (contract) if applicable, including any discounts,
 - (c) if applicable, any Alternative Bid - Financial Part.
- 33.8 The Bidders whose envelopes marked 'FINANCIAL PART' have been opened or their representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

I. Evaluation of Financial Parts of Bids

34. Evaluation of Financial Parts

- 34.1 Provided that a Bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component, by adding the average price of the item or component quoted by substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Purchaser shall use its best estimate.
- 34.2 To evaluate the Financial Part of each Bid, the Purchaser shall consider the following:
- (a) evaluation will be done for Items or Lots (contracts), as specified **in the BDS**; and the Bid Price as quoted in accordance with ITB 14;
 - (b) price adjustment for correction of arithmetic errors in accordance with ITB 35.1;
 - (c) price adjustment due to discounts offered in accordance with ITB 14.4;
 - (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 36;
 - (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 34.1; and

- (f) the additional evaluation factors specified in Section III, Evaluation and Qualification Criteria.
- 34.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 34.4 If this bidding document allows Bidders to quote separate prices for different lots (contracts), each lot will be evaluated separately to determine the Most Advantageous Bid using the methodology specified in Section III, Evaluation and Qualification Criteria. **Discounts that are conditional on the award of more than one lot or slice shall not be considered for Bid evaluation.**
- 34.5 The Purchaser's evaluation of a Bid will exclude and not take into account:
 - (a) in the case of Goods manufactured in the Purchaser's Country, sales and other similar taxes, which will be payable on the goods if a contract is awarded to the Bidder;
 - (b) in the case of Goods manufactured outside the Purchaser's Country, already imported or to be imported, customs duties and other import taxes levied on the imported Good, sales and other similar taxes, which will be payable on the Goods if the contract is awarded to the Bidder;
 - (c) any allowance for price adjustment during the period of execution of the contract, if provided in the Bid.
- 34.6 The Purchaser's evaluation of a Bid may require the consideration of other factors, in addition to the Bid price quoted in accordance with ITB 14. These factors may be related to the characteristics, performance, and terms and conditions of purchase of the Goods and Related Services. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of Bids, unless otherwise specified **in the BDS** from amongst those set out in Section III, Evaluation and Qualification Criteria. The criteria and methodologies to be used shall be as specified in ITB 34.2 (f).

35. Correction of Arithmetic Errors

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

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

35.2 Bidders shall be requested to accept correction of arithmetic errors. Failure to accept the correction in accordance with ITB 35.1, shall result in the rejection of the Bid.

36. Conversion to Single Currency

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

37. Margin of Preference

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

38. Comparison of Financial Parts

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

levied in connection with the sale or delivery of goods.

39. Abnormally Low Bids

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

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

40. Evaluation of combined Technical and Financial Parts

- 40.1 The Purchaser's evaluation of responsive Bids will take into account technical factors, in addition to cost factors in accordance with Section III Evaluation and Qualification Criteria. The weight to be assigned for the Technical factors and cost is specified **in the BDS**. The Purchaser will rank the Bids based on the evaluated Bid score (B).
- 40.2 The Purchaser will determine the Most Advantageous Bid. The Most Advantageous Bid is the Bid of the Bidder that meets the Qualification Criteria and whose Bid has been determined to be substantially responsive to the Bidding document and is the Bid with the highest combined technical and financial score.

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

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

42. Standstill Period

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

43. Notification of Intention to Award

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

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

K. Award of Contract**44. Award Criteria**

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

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

45.1 At the time the Contract is awarded, the Purchaser reserves the right to increase or decrease the quantity of Goods and Related Services originally specified in Section VII, Schedule of Requirements, provided this does not exceed the percentages **specified in the**

BDS, and without any change in the unit prices or other terms and conditions of the Bid and the bidding document.

46. Notification of Award

- 46.1 Prior to the date of expiry of the Bid validity and upon expiry of the Standstill Period, specified in ITB 42.1 or any extension thereof, and upon satisfactorily addressing any complaint that has been filed within the Standstill Period, the Purchaser shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification of award (hereinafter and in the Contract Forms called the “Letter of Acceptance”) shall specify the sum that the Purchaser will pay the Supplier in consideration of the execution of the Contract (hereinafter and in the Conditions of Contract and Contract Forms called “the Contract Price”).
- 46.2 Within ten (10) Business Days after the date of transmission of the Letter of Acceptance, the Purchaser shall publish the Contract Award Notice which shall contain, at a minimum, the following information:
- (a) name and address of the Purchaser;
 - (b) name and reference number of the contract being awarded, and the selection method used;
 - (c) names of all Bidders that submitted Bids, and their Bid prices as read out at Bid opening, and as evaluated;
 - (d) names of all Bidders whose Bids were rejected either as nonresponsive or as not meeting qualification criteria, or were not evaluated, with the reasons therefor;
 - (e) the name of the successful Bidder, the final total contract price, the contract duration and a summary of its scope; and
 - (f) successful Bidder’s Beneficial Ownership Disclosure Form.
- 46.3 The Contract Award Notice shall be published on the Purchaser’s website with free access if available, or in at least one newspaper of national circulation in the Purchaser’s Country, or in the official gazette. The Purchaser shall also publish the contract award notice in UNDB online.

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

47. Debriefing by the Purchaser

- 47.1 On receipt of the Purchaser's Notification of Intention to Award referred to in ITB 43.1, an unsuccessful Bidder has three (3) Business Days to make a written request to the Purchaser for a debriefing. The Purchaser shall provide a debriefing to all unsuccessful Bidders whose request is received within this deadline.
- 47.2 Where a request for debriefing is received within the deadline, the Purchaser shall provide a debriefing within five (5) Business Days, unless the Purchaser decides, for justifiable reasons, to provide the debriefing outside this timeframe. In that case, the standstill period shall automatically be extended until five (5) Business Days after such debriefing is provided. If more than one debriefing is so delayed, the standstill period shall not end earlier than five (5) Business Days after the last debriefing takes place. The Purchaser shall promptly inform, by the quickest means available, all Bidders of the extended standstill period.
- 47.3 Where a request for debriefing is received by the Purchaser later than the three (3) Business Day deadline, the Purchaser should provide the debriefing as soon as practicable, and normally no later than fifteen (15) Business Days from the date of publication of Public Notice of Award of contract. Requests for debriefing received outside the three (3) day deadline shall not lead to extension of the standstill period.
- 47.4 Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidders shall bear their own costs of attending such a debriefing meeting.

48. Signing of Contract

- 48.1 The Purchaser shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form shall be submitted within eight (8) Business Days of receiving this request.

- 48.2 The successful Bidder shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt.
- 48.3 Notwithstanding ITB 48.2 above, in case signing of the Contract Agreement is prevented by any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, where such export restrictions arise from trade regulations from a country supplying those products/goods, systems or services, the Bidder shall not be bound by its Bid, always provided however, that the Bidder can demonstrate to the satisfaction of the Purchaser and of the Bank that signing of the Contract Agreement has not been prevented by any lack of diligence on the part of the Bidder in completing any formalities, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract.

49. Performance Security

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

50. Procurement Related Complaint

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

Section II - Bid Data Sheet (BDS)

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

ITB Reference	A. General
ITB 1.1	<p>The reference number of the Request for Bids (RFB) is: <u>PK-FBR-384526-GO-RFB</u></p> <p>The Purchaser is: Federal Board of Revenue</p> <p>The name of the RFB is Procurement of Portal High Energy Scanners – Complete Solution</p> <p>The number and identification of Package comprising this RFB is: One Package of six (06) Scanners.</p>
ITB 1.2(a)	Electronic –Procurement System: Not Applicable
ITB 2.1	<p>The Borrower is: Islamic Republic of Pakistan who has extended the financing to the Federal Board of Revenue</p> <p>Loan Agreement amount: US\$ 400 Million</p> <p>The name of the Project is: Pakistan Raises Revenue Project</p>
ITB 4.1	Maximum number of members in the Joint Venture (JV) shall be: Two (02).
ITB 4.5	A list of debarred firms and individuals is available on the Bank's external website: http://www.worldbank.org/debarr .

B. Contents of Bidding Document									
ITB 7.1	<p>For Clarification of Bid purposes only, the Purchaser's address is:</p> <p style="text-align: center;">MUHAMMAD KHALID JAMIL DIRECTOR (PROGRAM OFFICE), PAKISTAN RAISES REVENUE PROJECT, Room No. 574, 5th Floor, Federal Board of Revenue, FBR House, Constitutional Avenue, Sector G - 5/2, Postal Code: 44000 Islamabad, Pakistan. (Off): +92 (51) 9219649 Fax No. +92 (51) 9202673 Email: director.prr@fbr.gov.pk</p> <p>Requests for clarification should be received by the Employer no later than fourteen (14) days before deadline of Bid Submission.</p> <p>Web page: https://fbr.gov.pk/tenders</p> <p>A hybrid Pre-Bid meeting “shall” take place at the following date, time and place which a bidder may attend physically or virtually:</p> <table><tr><td>Date:</td><td>20th February 2024</td><td>Time:</td><td>1030 hours (PST)</td></tr></table> <p style="text-align: center;">VENUE</p> <p style="text-align: center;">CONFERENCE ROOM Directorate of National Nuclear Detection Architecture (NNDA) Old Customs House, 2nd Floor, Eduljee Dinshaw Road, Karachi, Pakistan.</p> <p><u>Virtual Meeting Link:</u></p> <p style="text-align: center;">https://vlc.fbr.gov.pk/meeting/994994?secret=VAUDgqrDIGT6jU2oGi2Hqw</p> <p>Maximum two (02) representatives of a bidder shall be allowed in either way of participation, and mobile phone/recording of the proceedings will not be allowed.</p> <p>A bidder may choose to visit the sites that have been allocated for the installation of Scanners on following given dates during Official Working Hours [0900 to 1700 PST] and assure themselves about the sufficiency of requirements for submitting all-inclusive bids.</p> <table><tr><th>Pakistan Seaport</th><th>Dates for Site Visits</th></tr><tr><td>Karachi Ports,</td><td>21st February 2024</td></tr></table>	Date:	20 th February 2024	Time:	1030 hours (PST)	Pakistan Seaport	Dates for Site Visits	Karachi Ports,	21st February 2024
Date:	20 th February 2024	Time:	1030 hours (PST)						
Pakistan Seaport	Dates for Site Visits								
Karachi Ports,	21st February 2024								

	<p>If a bidder opts for sites' visit, the bidder will be required to share the details of the representative(s) carrying out sites' visit, at least two (02) working days and during the working hours, for managing the necessary permissions, with the following liaison officer:</p> <p style="text-align: center;">Dr. Rehmatullah Vistro Director Directorate of National Nuclear Detection Architecture (NNDA) Old Customs House, 2nd Floor, Eduljee Dinshaw Road, Karachi, Pakistan Off. Phone No. (Landline): +92(21) 99210361 and 99210360 Mobile No. +92(300) 9379382 Email: rhvistro@gmail.com</p>
	C. Preparation of Bids
ITB 10.1	<p>The language of the Bid is: English.</p> <p>All correspondence exchange shall be in English language.</p> <p>Language for translation of supporting documents and printed literature is English.</p>
ITB 11.2 (i) & 11.3 (d)	<p>The Bidder shall submit the following additional documents in his Bid:</p> <ul style="list-style-type: none"> (i) Cyber security accreditation such as ISO 27000 (ISO 27001) or equivalent, (ii) Training Plan alongwith copies of all training material (in hard and soft format), presentations and lessons.
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 entire package should correspond to 100 percent of the quantities of the package.
ITB 14.7	The Incoterms edition is: Incoterms 2020 .

ITB 14.8 (a)(iii), (b)(ii) and (c)(v)	<p>Final Destination Site:</p> <p>Following locations at Karachi Port, Napier Mole Road, Karachi City, Sindh Pakistan</p> <table><tr><th rowspan="2">Location</th><th colspan="2">Scanners</th></tr><tr><th>Number</th><th>Type</th></tr><tr><td>SAPT BERTH</td><td>01</td><td>Pass-Thru</td></tr><tr><td>SAPT PRE-GATE</td><td>01</td><td>Pass-Thru</td></tr><tr><td>DP WORLD</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE QICT</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE KGTL</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE KICT</td><td>01</td><td>Mobile</td></tr></table>	Location	Scanners		Number	Type	SAPT BERTH	01	Pass-Thru	SAPT PRE-GATE	01	Pass-Thru	DP WORLD	01	Pass-Thru	MOBILE QICT	01	Pass-Thru	MOBILE KGTL	01	Pass-Thru	MOBILE KICT	01	Mobile
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ITB 14.8 (b)(i)	<p>Places of Destination:</p> <p>Following locations at Karachi Ports, Napier Mole Road, Karachi City, Sindh Pakistan</p> <table><tr><th rowspan="2">Location</th><th colspan="2">Scanners</th></tr><tr><th>Number</th><th>Type</th></tr><tr><td>SAPT BERTH</td><td>01</td><td>Pass-Thru</td></tr><tr><td>SAPT PRE-GATE</td><td>01</td><td>Pass-Thru</td></tr><tr><td>DP WORLD</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE QICT</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE KGTL</td><td>01</td><td>Pass-Thru</td></tr><tr><td>MOBILE KICT</td><td>01</td><td>Mobile</td></tr></table>	Location	Scanners		Number	Type	SAPT BERTH	01	Pass-Thru	SAPT PRE-GATE	01	Pass-Thru	DP WORLD	01	Pass-Thru	MOBILE QICT	01	Pass-Thru	MOBILE KGTL	01	Pass-Thru	MOBILE KICT	01	Mobile
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MOBILE KGTL	01	Pass-Thru																						
MOBILE KICT	01	Mobile																						
ITB 15.1	The Bidder “is” required to quote in the currency of the Purchaser’s Country the portion of the Bid price that corresponds to expenditures to be incurred in that currency.																							
ITB 16.4	Period of time the Goods are expected to be functioning (for the purpose of spare parts): Three (03) years.																							
ITB 17.2 (a)	Manufacturer’s authorization is: Required and its submission is essential with the Technical Part of the Bid.																							
ITB 17.2 (b)	<p>After sales service is: Required</p> <p>The Bidder is required to include with his bid, evidence that he will be represented by an Agent in the Purchaser’s country. List of representatives/service agents throughout Pakistan and other countries in the region in respect of after sales services, must be furnished.</p>																							

ITB 18.1	The Bid shall be valid until 24th July 2024 .
ITB 18.3 (a)	The Bid price shall be adjusted by the following factor(s): <ul style="list-style-type: none"> • SOFR for Foreign Currency, and • KIBOR for Local Currency (Pak. Rs.)
ITB 19.1	<p>A <i>Bid Security</i> shall be required.</p> <p>The amount and currency of the bid security shall be US\$ 400,000/- which shall be in favour of Federal Board of Revenue, Islamabad.</p> <p>Bid-Security Declaration and Insurance Guarantees shall not be acceptable.</p>
ITB 19.3 (d)	Other types of acceptable securities: Not Applicable
ITB 20.3	<p>The written confirmation of Authorization to sign on behalf of the Bidder shall consist of:</p> <p>A Power of Attorney authorizing the signatory to sign the Bid on behalf of the Bidder from competent authority must be provided along with the bid. If the signatory of the Bid is duly authorized by the memorandum and article of association or the constitution of the Bidder, certified copy of the relevant section of the said constitution should be provided. In case, the Bidder is a sole proprietorship/partnership firm, necessary affidavit should be provided. Otherwise, the Bid may be rejected.</p> <p>If the Bidder is an intended or existing Joint Venture, such authorization be signed by all parties and specify the authority of the named representative to sign the Bid on behalf of, and legally bind, the intended or existing Joint Venture.</p> <p>If the Joint Venture has not yet been formed, also include written evidence from all proposed Joint Venture partners of their intent to enter into a Joint Venture in the event of a contract award in accordance with ITB 11.2.</p>
D. Submission of Bids	
ITB 21.2	<p>In addition to the original of the Bid, the number of copies is: One (1) original and Three (03) copies of original bid.</p> <p>A soft copy of the technical part should be provided with a flash disk in the envelope of Technical Part. No information about the financial part should be included in this disk. Similarly, a soft copy of the financial part should be provided with a flash disk in the envelope of Financial Part. In case of any discrepancy between the soft and hard copies, the hard copy shall prevail.</p>
ITB 22.1	<p>For <u>Bid submission purposes</u> only, the Purchaser's address is:</p> <p>MUHAMMAD KHALID JAMIL</p>

	<p align="center">DIRECTOR (PROGRAM OFFICE), PAKISTAN RAISES REVENUE PROJECT, Room No. 574, 5th Floor, Federal Board of Revenue, FBR House, Constitutional Avenue, Sector G - 5/2, Postal Code: 44000 Islamabad, Pakistan.</p>								
	The deadline for Bid submission is:								
	Date:	4th April 2024	Time: 1100 hours PST						
	Bidders “ shall not ” have the option of submitting their Bids electronically.								
	E. Public Opening of Technical Parts of Bids								
ITB 25.1	<p>The Bid opening shall take place at:</p> <p align="center">MUHAMMAD KHALID JAMIL DIRECTOR (PROGRAM OFFICE), PAKISTAN RAISES REVENUE PROJECT, Room No. 574, 5th Floor, Federal Board of Revenue, FBR House, Constitutional Avenue, Sector G - 5/2, Postal Code: 44000 Islamabad, Pakistan.</p>								
	Date:	4th April 2024	Time: 1130 hours PST						
	<p>Bidders “shall not” have the option of submitting their Bids electronically.</p> <p>Maximum two representatives of the bidder shall be allowed to attend. Use of mobile phones/camera/Recording equipment shall be strictly prohibited during the opening of Technical Part of the Bid.</p>								
ITB 25.6	The Letter of Bid - Technical Part and the sealed envelope marked “Second Envelope - Financial Part” shall be initialed by at least two (02) authorized representatives of the Purchaser conducting Bid opening.								
	G. Evaluation of Technical Parts of Bids								
ITB 32.4	<p>The technical factors and corresponding sub factors, to be applied for the evaluation of technical part of the bid of an eligible and qualified bidder pursuant to the Evaluation and Qualification Criteria given in Section III, shall be:</p> <table border="1"> <thead> <tr> <th>Sr. #</th><th>Factors</th><th>Scores</th></tr> </thead> <tbody> <tr> <td>1.</td><td>Value added features/specifications/designs for enhancing sustainability, performance, efficiency, reliability, functionality; easy to maintain & operate etc., considering the technical requirements mentioned in Section VII: Schedule of Requirements, Part 3, including Network</td><td>30</td></tr> </tbody> </table>			Sr. #	Factors	Scores	1.	Value added features/specifications/designs for enhancing sustainability, performance, efficiency, reliability, functionality; easy to maintain & operate etc., considering the technical requirements mentioned in Section VII: Schedule of Requirements, Part 3, including Network	30
Sr. #	Factors	Scores							
1.	Value added features/specifications/designs for enhancing sustainability, performance, efficiency, reliability, functionality; easy to maintain & operate etc., considering the technical requirements mentioned in Section VII: Schedule of Requirements, Part 3, including Network	30							

		provisioning & integration capability with Custom's Wing Scanning system.	
	2.	Quality control and assurance techniques & measures for efficient installation, commissioning, integrating & testing of scanners & allied services	10
	3.	Management strategies, prevention techniques and implementation plans related to environment & safety especially focusing Impact of Radiation for safeguarding the environment and personnels operating the equipment.	20
	4.	Quality of proposed service levels and capabilities ensuring product sustainability & warranty arrangements. The bidder should provide existing or proposed arrangements in detail for all type of maintenance and warranty support.	20
	5.	Approach and method statement for Logistics, Supply Chain Management, Stakeholder Communication, Management & Coordination, overcoming challenges for installing, commissioning, integrating & testing the required equipment without interrupting the daily functions of the Purchaser at high security points.	10
	6.	Plan for technical knowledge transfer to local staff enabling future maintenance and operation activities.	10
	Total =		100
The weight to be given for the Technical Part of the Bid is: 30% .			
H. Notification of Evaluation of Technical Parts and Public Opening of Financial Parts of Bids			
ITB 33.5	The Letter of Bid – Financial Part and the Price Schedules shall be initialed by at least two (02) authorized representatives of the Purchaser conducting Bid opening.		
I. Evaluation of Financial Part of Bids			
ITB 34.2(a)	<p>Bids will be evaluated on complete package basis confirming 100% of the required quantity.</p> <p>If a Price Schedule shows items listed but not priced, their prices shall be assumed to be included in the prices of other items.</p> <p>An item not listed in the Price Schedule shall be assumed to be not included in the Bid, and provided that the Bid is substantially responsive, the average price of the item quoted by substantially responsive Bidders will be added to the Bid price and the equivalent total cost of the Bid so determined will be used for price comparison.</p>		
ITB 34.6	The adjustments shall be determined using the following criteria, from amongst those set out in Section III, Evaluation and Qualification Criteria:		

	<p>(a) Deviation in Delivery schedule: No</p> <p>(b) Deviation in payment schedule: No</p> <p>(c) the cost of major replacement component, mandatory spare parts, and service: No</p> <p>(d) the availability in the Purchaser's Country of spare parts and after-sales services for the equipment offered in the Bid: No</p> <p>(e) Life cycle costs: the costs during the life of the goods or equipment: No</p> <p>(f) the performance and productivity of the equipment offered: No</p>
ITB 36.1	<p>The currency that shall be used for bid evaluation and comparison purposes to convert all bid prices expressed in various currencies into a single currency is: Pak. Rs.</p> <p>The source of exchange rate (Selling rate – Closing rate) shall be: The State Bank of Pakistan.</p> <p>The date for the exchange rate shall be twenty eight (28) days prior to the deadline of bid submission.</p>
ITB 37.1	Domestic preference shall not apply.
J. Evaluation of Combined Technical and Financial Parts and Most Advantageous Bid	
ITB 40.1	The weight to be given for cost is: 70%
J. Award of Contract	
ITB 45.1	<p>For Scanners:</p> <p>The maximum percentage by which quantities may be increased is: One scanner.</p> <p>The maximum percentage by which quantities may be decreased is: One scanner.</p> <p>For Software Licenses:</p> <p>The maximum percentage by which quantities may be increased is: Six (06) per scanner.</p> <p>The maximum percentage by which quantities may be decreased is: Six (06) per scanner.</p>
ITB 48.1	The successful Bidder shall submit the Beneficial Ownership Disclosure Form.
ITB 50.1	The procedures for making a Procurement-related Complaint are detailed in the " Procurement Regulations for IPF Borrowers (Annex III)." If a Bidder wishes to make a Procurement-related Complaint, the Bidder should submit

	<p>its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to:</p> <p style="text-align: center;">MEMBER (REFORMS & MODERNIZATION) CHAIRPERSON GRIEVANCE REDRESSAL COMMITTEE FEDERAL BOARD OF REVENUE Room No. 350, 3rd Floor, Federal Board of Revenue, FBR House, Constitutional Avenue, Sector G - 5/2, Postal Code: 44000 Islamabad, Pakistan Email: members@m@fbr.gov.pk</p> <p>In summary, a Procurement-related Complaint may challenge any of the following:</p> <ol style="list-style-type: none">1. the terms of the Bidding Documents;2. the Purchaser's decision to exclude a Bidder from the procurement process prior to the award of contract; and3. the Purchaser's decision to award the contract.
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Section III - Evaluation and Qualification Criteria

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

TECHNICAL PART

Qualification Criteria (ITB 32.1)

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

(a) Financial Capability:

- (i) The Bidder shall submit audited Financial Statements, if not required by the law of the Bidder's country, other financial statements acceptable to the Purchaser, of the last **five (05)** years (2018, 2019, 2020, 2021, 2022) demonstrating the financial capacity of the bidder sufficient to complete the contract satisfactorily. These financial statements must include balance sheets, profit and loss accounts, assets and liabilities, investments and availability of financial resources to manage the contract. **For a joint venture, this requirement shall be met by each member.**

(b) Specific Experience:

- (i) The Bidder shall have at least **ten (10)** years of prior experience of executing similar contracts, for supply, installation commissioning, and maintenance, prior to the bid submission deadline,
- (ii) The Bidder shall demonstrate of having experience related to supply, installation commissioning, supply of software for scanner along integration of scanners at various levels, and maintenance under at least **two (02)** similar projects equaling **US \$ 10,000,000/-** or above over last **five (05) years**, prior to the bid submission deadline. **For a joint venture, this requirement may be met by all members combined.**

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

- (i) The bidder shall furnish a third-party test and inspection report confirming the technical specifications of items,
- (ii) The bidder shall furnish documentary evidence testifying that all the spare parts and other accessories confirm their actual requirements and are of standard quality,
- (iii) The bidder shall furnish documentary evidence in support of its qualitative manufacturing processes and products confirming an acceptable international standard like ISO, CE, BIS, USFDA WHO, ICRP, ANSI etc., as required in Technical Specifications of Section VII viz., Schedule of Requirements,
- (iv) The offered brand and its model have been in operation for a minimum of **three (03)** years.

- (d) **Manufacturing experience and Technical Capacity:** For the items under the Contract that the bidder is a manufacturer, the Bidder shall furnish documentary evidence to demonstrate that:
- (i) It has manufactured goods of similar nature and complexity for at least **ten (10)** years, prior to the bid submission deadline, and
 - (ii) Its annual production capacity of goods of similar nature and complexity for in any one of the last **three (03)** calendar years prior to the bid submission deadline, is at least **two (02)** times the quantities specified under the contract,
 - (iii) The Bidder will present its authorized or planned and committed maintenance service organization in Pakistan that must guarantee an optimum maintenance service in conformity with the terms of reference, including the minimum services standards defined in Technical Specifications of Section VII viz., Schedule of Requirements, during the required warranty period.
- (e) The Bidder/OEM shall demonstrate that it has cyber security experience, practice and track record during last **five (05)** years, including having relevant Cyber security accreditation such as ISO 27000 (ISO 27001) or equivalent.
- (f) **Manufacturer's authorization:**
- (i) 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.

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.

1. Technical Evaluation (ITB 32.4)

Assessment of adequacy of Technical Part with the requirements, shall be made as follows, in accordance with BDS ITB 32.4:

Sr. #	Factors	Scores (Wj)
1.	Value added features/specifications/designs for enhancing sustainability, performance, efficiency, reliability, functionality; easy to maintain & operate etc., considering the technical requirements mentioned in Section VII: Schedule of Requirements, Part 3, including Network provisioning & integration capability with Custom's Wing Scanning system.	30
2.	Quality control and assurance techniques & measures for efficient installation, commissioning, integrating & testing of scanners & allied services	10
3.	Management strategies, prevention techniques and implementation plans related to environment & safety especially focusing Impact of Radiation for safeguarding the environment and personnels operating the equipment.	20

4.	Quality of proposed service levels and capabilities ensuring product sustainability & warranty arrangements. The bidder should provide existing or proposed arrangements in detail for all type of maintenance and warranty support.	20
5.	Approach and method statement for Logistics, Supply Chain Management, Stakeholder Communication, Management & Coordination, overcoming challenges for installing, commissioning, integrating & testing the required equipment without interrupting the daily functions of the Purchaser at high security points.	10
6.	Plan for technical knowledge transfer to local staff enabling future maintenance and operation activities.	10
Total =		100

The Scoring Methodology of the Technical Part, in respect of assessment of above mentioned technical factors, shall be as follows:

Score to be awarded to each Technical Factor (S _j)	Description	Remarks
0	Required feature is absent; no relevant information to demonstrate how the requirement is met.	
10%	Required feature present with deficiencies such as insufficient or information that lacks clarity	
50%	Sufficient information to demonstrate how the requirement will be met	
80%	Sufficient information to demonstrate that the requirement will be marginally exceeded	
100%	Sufficient information that significantly exceed the requirement/bid contributes to significant value addition	

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

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

where:

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

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

FINANCIAL PART

1. Margin of Preference (ITB 37)

Not Applicable

2. Evaluation Criteria (ITB 34.6)

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

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

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

Not Applicable

- (b) Deviation in payment schedule. *[insert one of the following]*

Not Applicable

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

Not Applicable

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

Not Applicable

- (e) Life Cycle Cost

Not Applicable

- (f) Performance and productivity of the equipment. *[insert one of the following]*

Not Applicable

Combined Evaluation

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

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

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

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

where

C = Evaluated Bid Price

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

T = the total Technical Score awarded to the Bid

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

X = weight for the Cost as specified in the BDS

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

Section IV - Bidding Forms

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Letter of Bid – Technical Part

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

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

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

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

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

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

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

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

To: *[insert complete name of Purchaser]*

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

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

In submitting our Bid we make the following declarations:

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

We, including any of our subcontractors:

- (i) *[have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]*
- (ii) *[are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations.]*
- (iii) *[had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.]*

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

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

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

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

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

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

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

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

Technical Part

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

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

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

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

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

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

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

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

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

Manufacturer's Authorization

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

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

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

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

To: *[insert complete name of Purchaser]*

WHEREAS

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

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

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

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

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

Title: *[insert title]*

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

Bidder Information Form

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

Date: *[insert date (as day, month and year) of Bid submission]*
 RFB No.: *[insert number of Bidding process]*
 Alternative No.: *[insert identification No if this is a Bid for an alternative]*

Page _____ of _____ pages

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

Bidder's JV Members Information Form

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

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

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

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

Page _____ of _____ pages

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

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

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

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

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

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

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

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

SEA and/or SH Declaration in accordance with Section III, Qualification Criteria, and Requirements
<p>We:</p> <ul style="list-style-type: none"> <input type="checkbox"/> (a) have not been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (b) are subject to disqualification by the Bank for non-compliance with SEA/ SH obligations <input type="checkbox"/> (c) had been subject to disqualification by the Bank for non-compliance with SEA/ SH obligations, and were removed from the disqualification list. An arbitral award on the disqualification case has been made in our favor.
<p><i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i></p>

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.

Letter of Bid - Financial Part

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

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

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

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

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

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

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

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

To: *[insert complete name of Purchaser]*

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

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

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

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

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

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

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

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

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

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

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

Name of Recipient	Address	Reason	Amount

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

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

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

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

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

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

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

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

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

Price Schedule Forms

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

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

(Group C Bids, goods to be imported) Currencies in accordance with ITB 15						Date: _____ RFB No: _____ Alternative No: _____ Page N° _____ of _____		
1	2	3	4	5	6	7	8	9
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price CIP <i>[insert place of destination]</i> in accordance with ITB 14.8(b)(i)	CIP Price per line item (Col. 5x6)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the Goods to their final destination specified in BDS	Total Price per Line item (Col. 7+8)
<i>[insert number of the item]</i>	<i>[insert name of good]</i>	<i>[insert country of origin of the Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price CIP per unit]</i>	<i>[insert total CIP price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[insert total price of the line item]</i>
First (1st) Shipment								
1.	Portal High Energy PASS-THRU Scanners			02 No.				
2.	Additional Software User Licenses for PASS-THRU Scanners			06 No.				
Second (2nd) Shipment								
3.	Portal High Energy PASS-THRU Scanners			03 No.				

4.	Additional Software User Licenses for PASS-THRU Scanners			09 No.				
Third (3rd) Shipment								
5.	Portal High Energy Mobile Scanners			01 No.				
6.	Additional Software User Licenses for Mobile Scanners			03 No.				
OPTIONAL								
7. *	Machine Learning (ML) Solutions			01 No.				
							Total Price	

(*) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

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

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

(Group C Bids, Goods already imported) Currencies in accordance with ITB 15									Date: _____ RFB No: _____ Alternative No: _____ Page N° _____ of _____		
1	2	3	4	5	6	7	8	9	10	11	12
Line Item N°	Description of Goods	Country of Origin	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price including Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i)	Custom Duties and Import Taxes paid per unit in accordance with ITB 14.8(c)(ii) , [to be supported by documents]	Unit Price net of custom duties and import taxes, in accordance with ITB 14.8 (c) (iii) (Col. 6 minus Col.7)	Price per line item net of Custom Duties and Import Taxes paid, in accordance with ITB 14.8(c)(i) (Col. 5×8)	Price per line item for inland transportation and other services required in the Purchaser's Country to convey the goods to their final destination, as specified in BDS in accordance with ITB 14.8 (c)(v)	Sales and other taxes paid or payable per item if Contract is awarded (in accordance with ITB 14.8(c)(iv)	Total Price per line item (Col. 9+10)
<i>[insert number of the item]</i>	<i>[insert name of Goods]</i>	<i>[insert country of origin of the Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per unit]</i>	<i>[insert custom duties and taxes paid per unit]</i>	<i>[insert unit price net of custom duties and import taxes]</i>	<i>[insert price per line item net of custom duties and import taxes]</i>	<i>[insert price per line item for inland transportation and other services required in the Purchaser's Country]</i>	<i>[insert sales and other taxes payable per item if Contract is awarded]</i>	<i>[insert total price per line item]</i>
First (1st) Shipment											
1.	Portal High Energy PASS-THRU Scanners			02 No.							
2.	Additional Software User Licenses for PASS-THRU Scanners			06 No.							

Second (2 nd) Shipment											
3.	Portal High Energy PASS-THRU Scanners			03 No.							
4.	Additional Software User Licenses for PASS-THRU Scanners			09 No.							
Third (3 rd) Shipment											
5.	Portal High Energy Mobile Scanners			01 No.							
6.	Additional Software User Licenses for Mobile Scanners			03 No.							
OPTIONAL											
7. **	Machine Learning (ML) Solutions			01 No.							
										Total Bid Price	

(**) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

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 within origin in the Purchaser's Country % of Col. 5	Sales and other taxes payable per line item if Contract is awarded (in accordance with ITB 14.8(a)(ii))	Total Price per line item (Col. 6+7)
<i>[insert number of the item]</i>	<i>[insert name of Good]</i>	<i>[insert quoted Delivery Date]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert EXW unit price]</i>	<i>[insert total EXW price per line item]</i>	<i>[insert the corresponding price per line item]</i>	<i>[Insert cost of local labor, raw material and components from within the Purchase's country as a % of the EXW price per line item]</i>	<i>[insert sales and other taxes payable per line item if Contract is awarded]</i>	<i>[insert total price per item]</i>
First (1st) Shipment									
1.	Portal High Energy PASS-THRU Scanners		02 No.						
2.	Additional Software User Licenses for PASS-THRU Scanners		06 No.						
Second (2nd) Shipment									
3.	Portal High Energy PASS-THRU Scanners		03 No.						

4.	Additional Software User Licenses for PASS-THRU Scanners		09 No.						
Third (3rd) Shipment									
5.	Portal High Energy Mobile Scanners		01 No.						
6.	Additional Software User Licenses for Mobile Scanners		03 No.						
OPTIONAL									
7. *	Machine Learning (ML) Solutions		01 No.						
								Total Price	

(*) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

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

Price and Completion Schedule - Related Services

Currencies in accordance with ITB 15						Date: _____
						RFB No: _____
						Alternative No: _____
						Page N° _____ of _____
1	2	3	4	5	6	7
Service N°	Description of Services (excludes inland transportation and other services required in the Purchaser's Country to convey the goods to their final destination)	Country of Origin	Delivery Date at place of Final destination	Quantity and physical unit	Unit price	Total Price per Service (Col. 5*6 or estimate)
<i>[insert number of the Service]</i>	<i>[insert name of Services]</i>	<i>[insert country of origin of the Services]</i>	<i>[insert delivery date at place of final destination per Service]</i>	<i>[insert number of units to be supplied and name of the physical unit]</i>	<i>[insert unit price per item]</i>	<i>[insert total price per item]</i>
First (1st) Shipment						
01	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of PASS-THRU Scanners, at Karachi Ports			02 Numbers		
02	Installation, Integration, Testing & Training of Software for PASS-THRU Scanners, at Karachi Ports			06 Numbers		
Second (2nd) Shipment						

03	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of PASS-THRU Scanners, at Karachi Ports			03 Numbers		
04	Installation, Integration, Testing & Training of Software for PASS-THRU Scanners, at Karachi Ports			09 Numbers		
Third (3rd) Shipment						
05	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of Mobile Scanners, at Karachi Ports			01 Numbers		
06	Installation, Integration, Testing & Training of Software for Mobile Scanners, at Karachi Ports			03 Numbers		
OPTIONAL						
07 (*)	Installation, Integration, Testing & Training of Machine Learning (ML) Solutions			01 Number		
Total Bid Price						

(*) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

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: **None**.

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

Section VI - Fraud and Corruption

(Section VI shall not be modified)

1. Purpose

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

2. Requirements

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

2.2 To this end, the Bank:

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

- i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
- ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
- iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
- iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- v. "obstructive practice" is:

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

(b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.

b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or

indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

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

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

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

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

PART 2 – Supply Requirements

Section VII - Schedule of Requirements

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1. List of Goods and Delivery Schedule

Line Item N°	Description of Goods	Quantity	Physical unit	Final (Project Site) Destination as specified in BDS	Delivery (as per Incoterms) Date	
					Required Delivery Date	Bidder's offered Delivery date [to be provided by the Bidder]
First (1 st) Shipment						
1.	Portal High Energy Pass-Thru Scanner – Complete Solution	02	No.	SAPT BERTH & SAPT PRE-GATE Terminals, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	100 days following the date of signing of the Contract	[insert the number of days following the date of effectiveness of the Contract]
2.	Additional Software licenses for Pass-Thru Scanner	06	No.			
Second (2 nd) Shipment						
3.	Portal High Energy Pass-Thru Scanner – Complete Solution	03	No.	DP WORLD, QICT & KGTL Terminals, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	150 days following the date of signing of the Contract	[insert the number of days following the date of effectiveness of the Contract]
4.	Additional Software licenses for Pass-Thru Scanner	09	No.			
Third (3 rd) Shipment						
5.	Portal High Energy Mobile Scanners – Complete Solution	01	No.	KICT Terminal, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	180 days following the date of signing of the Contract	[insert the number of days following the date of effectiveness of the Contract]
6.	Additional Software licenses for each Mobile Scanner	03	No.			

OPTIONAL						
7 (*)	Installation, Integration, Testing & Training of Machine Learning (ML) Solutions	01	No.	Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	180 days following the date of signing of the Contract	[insert the number of days following the date of effectiveness of the Contract]

(*) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

2. List of Related Services and Completion Schedule

Service	Description of Service	Quantity	Physical Unit	Place where Services shall be performed	Final Completion Date(s) of Services
First (1 st) Shipment					
1.	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of PASS-THRU Scanners, at Karachi Ports	02	No.	SAPT BERTH & SAPT PRE-GATE Terminals, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	60 days after delivery of 1 st shipment.
2.	Installation, Integration, Testing & Training of Software	06	No.		
Second (2 nd) Shipment					
3.	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of PASS-THRU Scanners, at Karachi Ports	03	No.	DP WORLD, QICT & KGTL Terminals, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	60 days after delivery of 2 nd shipment.
4.	Installation, Integration, Testing & Training of Software	09	No.		
Third (3 rd) Shipment					
5.	Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training and three (03) years' comprehensive warranty of Mobile Scanners, at Karachi Ports	01	No.	KICT Terminal, Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	60 days after delivery of 3 rd shipment.
6.	Installation, Integration, Testing & Training of Software	03	No.		
OPTIONAL					
7 (*)	Installation, Integration, Testing & Training of Machine Learning (ML) Solutions	01	No.	Karachi Port, Napier Mole Road, Karachi, Karachi City, Sindh Pakistan	60 days after delivery of 3 rd shipment.

(*) This shall be an optional item, and the Purchaser shall be at liberty to either procure it or not.

3. Technical Specifications & Requirements

SECTION A

General Requirement

- (i) Bidder can provide/propose the equivalent or better equipment as requested in the technical specifications. For any proprietary technology / terminology, Bidder may propose equivalent or better technology / terminology / functionality as per their proposed equipment / technology as requested in technical specifications.
- (ii) In case local authorized partner/representative (bidder) of a manufacturer/OEM fails to deliver the required services during and after installation/deployment, including but not limited to warranty and/or after sales services related to Operations & Maintenance, the manufacturer/OEM shall be invariably responsible to address the related issue/O&M through its certified and owned technical resources without any extra/additional cost and up to the satisfaction of the purchaser. Written confirmation from the Manufacturer/OEM is required to be submitted in the bid(s) on letter head.
- (iii) All features requested in technical specifications should be available from day 1 and should be verified at the time of deployment.
- (iv) The Supplier will provide permanent technical assistance on site to Purchaser's operators during the first 10 weeks of operation of the system.
- (v) Training for complete solution deployed and operations training to be provided before the delivery of the equipment.
- (vi) The offered equipment/brand & model should not have end of sale date for 5 years from the date of contract and should not be end of life/support within 10 years from the date of operational acceptance.
- (vii) Successful Bidder shall be responsible for providing all sorts of functional test as specified in the proposed system or subsystem as per manufacturer's guideline, Purchaser's requirement and documentation.
- (viii) End User Certificate (EUC) if required and any other relevant documentation should be signed / approved by the Purchaser before the delivery of equipment.
- (ix) The Successful bidder shall be responsible from the commencement to handover of the complete project.
- (x) The Successful bidder UAT (User Acceptance Testing) Scripts for complete scope prior to testing. The Successful bidder must acquire UAT for new systems from the Purchaser.
- (xi) All Equipment with warranty coverage should have periodic Preventive Maintenance as per the manufacturer / OEM guidelines during warranty/Support coverage timeline.

Service Requirement

1 Product Upgrades:

- (i) At any point during performance of the Contract, should technological advances be introduced by the Bidder for the offered Products and Services originally offered by the Bidder in his bid and still to be delivered, the Bidder shall be obligated to offer to the Purchaser the latest versions of the available information technologies having equal or better performance or functionality at the same or lesser unit prices.
- (ii) At any point during performance of the Contract, for offered Products and Services still to be delivered, the Bidder will also pass on to the Purchaser any cost reductions and additional and/or improved support and facilities that it offers to other clients of the OEM in the Purchaser's country.
- (iii) During performance of the Contract, the Bidder shall offer to the Purchaser all new versions, releases, and updates of standard system & its software, as well as related documentation and technical support services within 30 days of their availability from the OEM to other clients of the OEM in the Purchaser's country, and no later than 12 months after they are released in the country of origin, regarding:
 - Overall system maintainability /Serviceability
 - Radiological performances
 - System protection
 - Others
- (iv) During the warranty period, the Bidder will provide at no additional cost to the Purchaser all new versions, releases, and updates for all standard system & its software that are used in with the offered Products and Services within 30 days of their availability from the OEM to other clients of the OEM in the Purchaser's country, and no later than 12 months after they are released in the country of origin, regarding:
 - Overall system maintainability /Serviceability
 - Radiological performances
 - System protection
 - Others
- (v) The Bidder shall introduce all new versions, releases or updates of the operating software of the solution within 18 months of receipt of a production-ready copy of the new version, release, or update, provided that the new version, release, or update does not adversely affect system operation or performance or require extensive reworking of the system. In cases where the new version, release, or update adversely affects system operation or performance, or requires extensive reworking of the system, the Bidder shall continue to support and maintain the version or release previously in operation for as long as necessary to allow introduction of the new version, release, or update. In no case shall the Bidder stop supporting or maintaining a version or release of the software less than 24 months after the Purchaser receives a production-ready copy of a subsequent version, release, or update. The Purchaser shall use all reasonable endeavors to implement any new version, release, or update as soon as practicable, subject to the 24-month-long stop date.

2 Operation & Maintenance Requirements

The Bidder shall be responsible for the O&M including but not limited to:

- (i) Provide a planned/recurring and reactive maintenance and repair service for the system installed.
- (ii) Perform/provide product/software/firmware upgrades, security patches, licenses renewals as per the OEM's recommendations.
- (iii) Hold the necessary Purchaser and Public Liability insurances.
- (iv) The system must offer a minimum availability of 95% of total operation time (24 hours/day – 7 days / week – 365 days/year). This excludes preventive maintenance periods. The meantime between failures (MTBF) should be at least 1000 hrs.
- (v) The equipment must have all the necessary protection to allow all maintenance service operations, whatever the weather conditions.
- (vi) Maintenance should not require the return of the system to the factory.
- (vii) The system must be equipped with a remote service tool that can be used by field service engineers to diagnose the scanner status, identify system breakdown origins and repair/update system software issues.
- ~~(viii)~~ The remote service tool is to be connectable via an appropriate Wi-Fi dongle (or others) to be provided by the Bidder.
- (ix) The Bidder will present its authorized or planned and committed maintenance service organization in Pakistan that must guarantee an optimum maintenance service in conformity with the present terms of reference and will include the following minimum services during the warranty period:
 - 24/7 Call Centre
 - At least 4 maintenance engineers, certified by the manufacturer for comprehensive aftersales services.
 - 24/7 on-line support from the manufacturer's service department
 - Spare part stock in Pakistan
- (x) The Bidder will specify in its offer the maximum unavailability time forecast for the preventative maintenance actions.
- (xi) For the corrective actions, the following minimum commitments will apply during the warranty period:
 - 24h/7 days support via phone and electronic communication
 - Time to intervene on site (if not previously solved via electronic communication): 2 hours from Purchaser's notification time
 - Time to diagnose: 6 hours from notification time

- Time to repair: 10 hours from notification time for any defective part (excluding accelerator) subject to the nature of fault.
- (xii) Identify and comply with all relevant legislation and Health and Safety regulations relating to the services that are to be the subject of this contract.
- (xiii) Maintain records of actual performance results against the Purchaser's key delivery expectations with regard to the Services. The Key Performance Indicators (KPIs) may be established during the course of the Contract by agreement between both Parties.
- (xiv) Take prompt action to satisfactorily resolve complaints from the point of being made aware of the existence of such complaints and shall address any Service-related problems that may be identified by the client during the course of this Contract.
- (xv) In relation to performance measurement, include activity reporting summarizing the performance results against the KPIs. It may include provision of a general summary regarding the nature of the work undertaken. This will highlight any relevant key points or issues that may be of interest to the Purchaser.
- (xvi) Liaise with the operators on site in order to identify and comply with any general regulations and requirements at premises where the Purchaser's systems are installed and in particular will be responsible for obtaining, prior to starting any work; any necessary security passes and permits to work.
- (xvii) The contractor shall be responsible for the provision of the required materials, tools & plant at the site.

3 Documentation Requirements

- 3.1 The Bidder shall provide detailed installation and configuration manual for the equipment, along with data / electrical cabling layout including minor civil works and/or necessary spaces.
- 3.2 The Bidder shall provide the following documentation in the English language:
 - (i) User manual
 - (ii) All workstations' manuals
 - (iii) Safety and radiation protection manual
 - (iv) Advanced Service/Maintenance manuals (in English)
- 3.3 The service manual shall enable the qualified Engineer/Technician to perform both preventive and corrective maintenance, therefore it shall contain the following as a minimum.
 - (i) Detailed schematic diagrams of each subsystem of the scanner machine, illustrating all the necessary parameters at a respective stage.
 - (ii) Data flow chart with data at different points during operations & troubleshooting
 - (iii) Good component layout to ease component location

- (iv) Clear instructions on both preventive and corrective maintenance.
 - (v) Technical documentation on all scanner subsystems (Generator, PLC, Detection, IT, etc.) and all peripheral equipment
- 3.4 The Site Acceptance shall not be considered complete, nor shall the warranty period commence until all such documentation has been fully received.
- 3.5 The Bidder will maintain a logbook for each of the Purchaser's equipment. OEM/Bidder In-charge will be expected to update this record on every maintenance visit with details of work done to the equipment, including the results of services performed.
- 3.6 On completion of any work to the equipment, whether in the course of a planned or reactive maintenance visit, the OEM/Bidder In-charge will be expected (before leaving the premises) to complete a service or work report, showing, as a minimum:
- (i) The time of the technician's arrival on, and departure from the site.
 - (ii) Confirmation that the equipment has been tested and is operating correctly.
 - (iii) Details of any work carried out and/or which in consultation with the Purchaser's local representative is agreed or proposed to be undertaken at a later date.
 - (iv) A copy of the service or work report is to be left on site with the Purchaser's local officer.

4 Training Requirements

- 4.1 Awareness Programs: The Bidder shall initiate the first step to familiarize the on-ground team via various Awareness Programs. The awareness sessions would contain the following Core competencies:
- (i) Updates Policies
 - (ii) Cultural and Functional Changes
 - (iii) User and Management Requirements
 - (iv) Incident Handling
 - (v) Equipment's Security Awareness
 - (vi) Threat Sensitivity
 - (vii) Alerts and Advisories
- 4.2 The Bidder will include the training of the following personnel on each port site, and should include training program and related details & costs in the Technical & Financial Parts of the Bid:

Trainee Details	
(i)	System operators – 20 trainees
(ii)	Traffic marshals – 20 trainees
(iii)	Image operators (Analyst) – 40 trainees
(iv)	Advanced image analysis – 10 trainees
(v)	Maintenance Operators (Advanced) – 5 trainees
(vi)	Scanner Operation Management for 5 trainees

(vii) Scanner maintenance Management for **5 trainees**

4.3 The Bidder will provide the details of the training sessions in their Technical & Financial Parts of the Bid:

- (i) Number and duration of sessions
- (ii) Detailed content of the lessons
- (iii) Training tools and software
- (iv) Documentation
- (v) Location

4.4 In all above-mentioned training sessions, the following subjects will be part of the courses:

- (i) Radiation protection
- (ii) Health & safety
- (iii) X-ray technology principles

4.5 Specific attention is to be given to the quality and scope of the image inspection training. The bidder will propose an advanced training course of a minimum of 5 days, providing comprehensive knowledge and techniques to fully use image interpretation functions to optimize detection rate. The Bidder will present in its offer the training tools and software, including an image data bank that will be used to provide advanced and efficient training to PCS officers.

4.6 The bidder shall provide the maintenance training above immediately after signing the contract. There should be an On-Site Training course for all the operators to optimize the performance and productivity. Each training module the teaching outline shall include the following:

- (i) System design and operational philosophy.
- (ii) Review of documentation.
- (iii) Operations.
- (iv) Adjustments

4.7 **The Bidder shall provide copies of all training material (in hard and soft format), presentations and lessons plans, in their Technical Part of the Bid.**

4.8 **The Bidder will adapt the training plan implementation to Purchaser HR capacity deployment, likely to be implemented during the contract period starting from the contract signature.**

5 Testing & Commissioning

5.1 GENERAL REQUIREMENTS

- (i) The Bidder shall carry out all necessary inspection, testing and commissioning during installation period to ensure that all components and systems are in a satisfactory and safe condition and to demonstrate

that the equipment installation can meet the functional, performance as well as statutory requirements. The testing and commissioning shall be carried out in accordance with the requirements of the Purchaser and the manufacturers' recommendations and specifications. When such inspection, testing and commissioning are required to be witnessed by the Purchaser, the Bidder shall give due advance notice of such intention and provide details of the event to be performed.

- (ii) The Bidder shall provide supervision and support to the statutory inspection in the inspection, testing and examination of the equipment as required. The Bidder shall be responsible for providing the latest equipment offered. The Bidder shall ensure manufacturer compliance to the offered configurations/equipment selection. The equipment offered shall have manufacturer support for spares and services for at least 5 years after the successful commissioning and handover.
- (iii) The Bidder shall have the responsibility to ensure that the inspection, testing and commissioning of the equipment installations are carried out in a safe manner in order to protect the safety and health of other persons in the site.
- (iv) Throughout the execution of the installation, the Bidder shall be responsible for ensuring compliance with the relevant Ordinances and Regulations and shall notify the Purchaser or its representatives of any infringement which directly or indirectly detracts from the safe and satisfactory operation of the installations. All sub-standard works or defects found during inspection, testing and commissioning shall be rectified or replaced to the satisfaction of the Purchaser.
- (v) Prior to any testing and commissioning works, Bidder shall check the completion of the works, the associated builder's works, the associated building services installations and all other prerequisites to ensure that testing and commissioning can be proceeded in a safe and satisfactory manner without obstruction.

5.2 LABOUR, MATERIALS AND TECHNICAL SUPPORT

All labor, materials, tools and instrument necessary for carrying out the work shall be provided by the Bidder. The Purchaser will provide electricity supply.

5.3 MATERIALS AND EQUIPMENT DELIVERED TO SITE

The Bidder shall provide details of materials and equipment delivered to site including material and equipment list, delivery order, record of delivery, and all other relevant documents to the Purchaser for identification and verification of the materials and equipment delivered to site are in compliance with the approved submissions. The Bidder shall give due advance notice of the delivery of materials and equipment to the Purchaser for conducting the checking.

5.4 INSPECTION AND TESTING

- (a) **Factory Inspection and testing:** The equipment subsystems shall be inspected and tested at the factory and be certified by a competent company selected by the purchaser and four (4) FBR representatives before shipment. In the event that the FBR representatives should not be able to travel for any reason (including issuance of visas, COVID-19 restrictions, force majeure etc.); the factory inspection shall be witnessed by such qualified representatives as FBR shall appoint/nominate. FBR will bear the costs of the participation of its own 4 representatives.
- (b) **Site Acceptance Test:**
- (i) The Bidder shall demonstrate performance of the scanner in conformity with the relevant standards, using the appropriate testing tools (ANSI 42.46-2008 compliant).
 - (ii) Visual inspection and checking of 'work in progress' will be made by the Purchaser or its representatives from time to time during the installation period.
 - (iii) The Bidder shall be responsible for arranging adequate provisions to facilitate site inspections of the work in progress to be carried out by the Purchaser or its representatives from time to time. The Bidder shall keep such inspection records for checking from time to time. The Bidder shall give due advance notice to the Purchaser or its representatives prior to the inspection.
 - (iv) Works to be permanently covered up shall be subject to inspection before covering up. During the inspection if the Purchaser or its representatives discovers any work that has been covered up before inspection, this work shall be uncovered for inspection to the satisfaction of the Purchaser or its representatives. Any cost incurred to uncover the work, inspect and re-conceal the work together with any consequential economic losses shall be borne by the Bidder.
 - (v) Any defective works or sub-standard works found during visual inspection shall be rectified or replaced before proceeding with further tests.
 - (vi) There shall be an acceptance test performed after installation of the equipment to demonstrate equipment conformity to all technical requirements listed in this document (all items of this technical specifications).
 - (vii) After installation and during commission, the Supplier shall demonstrate that the scanner meets all the technical Specifications.
 - (viii) The Supplier shall demonstrate performance of the scanner in conformity with relevant standard, using appropriate testing tools.
 - (ix) The Supplier shall demonstrate to FBR all features requested in the technical specifications (all items of these specifications).

- (x) A test protocol draft is to be submitted to FBR for approval, latest 2 months from the signature of the procurement contract. FBR may ask for protocol draft amendment in order to fulfill above-mentioned requirements.

5.5 TESTING AND COMMISSIONING

- (i) The Bidder shall arrange to enable the Purchaser or its representatives to witness the complete testing and commissioning. Unless otherwise approved by the Purchaser, testing and commissioning carried out by the Bidder without the witness of the Purchaser or its representatives shall not be allowed.
- (ii) The Bidder shall give due advance notice of at least 72 hours, in writing, when any part or parts of the installation to be tested or commissioned. The Bidder shall satisfy himself that the installation is tested and/or commissioned to his satisfaction before inviting the Purchaser or its representatives for witness.
- (iii) Prior to carrying out any test and commissioning the installation, the Bidder shall submit detailed procedures and a programme for testing and commissioning the installation. The programme shall specify, but not be limited to, various stages of testing and commissioning works; breakdown of the tests during installation; allowable float time; milestone dates, if applicable, with the association of fire services statutory inspections; and handover dates of various works etc. to the Purchaser for approval.
- (iv) The Bidder shall plan the testing and commissioning programme to minimize the overlapping of different tests to be arranged simultaneously in different locations.

5.6 GENERAL TESTING AND COMMISSIONING REQUIREMENTS

- (i) The Bidder shall commission the installation and carry out complete performance tests for all components and equipment installed by him, making all necessary adjustments and checking the operation of all equipment and devices in accordance with the international standards, and the manufacturers' instructions and up to the satisfaction of the Purchaser.
- (ii) The inspections, tests and examinations of the installation shall be undertaken by the experienced Engineers who are employed by the Bidder. The work of inspection, test and examination shall comply with the requirements stipulated in standards and manufacturer recommendations.
- (iii) Any defect of installation, configuration, workmanship, materials and performance which become apparent during testing and commissioning shall be rectified by the Bidder at no additional cost to the Purchaser. This particular part of testing and commissioning procedures shall be repeated at the Bidder's expenses.

5.7 HANDOVER INSPECTION

The Bidder shall carry out detailed inspections for all components and equipment installed by him and make all necessary checking including operational settings for all equipment and systems in accordance with the instructions and recommendations from the manufacturer and to the satisfaction of the Purchaser before the handover of the complete installation.

5.8 COMPLETION

- (i) As soon as the supply of products and installation services have, in the opinion of the Supplier, been delivered, pre-commissioned, and made ready for Commissioning and Operational Acceptance Testing in accordance with the Schedule of Requirements, and the Agreed and Finalized Project Plan, the Supplier shall so notify the Purchaser in writing.
- (ii) The Purchaser's authorized representative(s) shall, within 14 days after receipt of the Bidder's notice, either issue an Installation Certificate, stating that the installation of the supplied products has been achieved by the date of the Bidder's notice, or notify the Bidder in writing of any defects and/or deficiencies, including, but not limited to, defects or deficiencies in the interoperability or integration of the various components making up the offered products and installation services. The Bidder shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies that have been notified to the Bidder by the Purchaser's authorized representative(s). The Bidder shall then promptly carry out retesting of the offered products and installation services and, when in the Bidder's opinion they are ready for Commissioning and Operational Acceptance Testing, notify the Purchaser in writing. The procedure shall be repeated, as necessary, until the Installation Certificate is issued.
- (iii) All equipment and materials needed for the tests shall be provided by the Bidder at its own cost.

5.9 AS-BUILT DRAWINGS/MAINTENANCE MANUAL CHECKLIST

Following shall constitute as a minimum:

- (i) As -Built Drawings
- (ii) List of drawings
- (iii) Electrical power & data cabling Layouts
- (iv) Manufacturer's As-built Drawings
- (v) Circuit Labeling Sheets
- (vi) Data Cables Labelling Sheets
- (vii) Cable Schedule
- (viii) Equipment name plate data
- (ix) Equipment Installation Test

- (x) Equipment (Factory & Field Commissioning)
- (xi) Cable (Factory & Field)
- (xii) Technical Literature of Installed Equipment Including
User/Maintenance Manuals

6. TECHNICAL & FUNCTIONAL REQUIREMENTS – SECTION B

PORTAL HIGH ENERGY SCANNER TECHNICAL & FUNCTIONAL REQUIREMENTS (IMPORTS & Exports)

The portal scanner is an inspection system that allows a radiosopic image analyst to distinguish the type of goods and perform the following as a minimum:

- Verification of goods for revenue collection
- Detection of restricted and smuggled goods
- Detection of prohibited goods such as explosives (all powder and liquid), drugs, chemicals, and radioactive materials
- Detection of firearms and ammunition

The Portal scanners (Mobile and Pass-Through types) **minimum 6 MeV – Dual Energy** are to be installed and commissioned at the following designated locations in Karachi and Port Qasim:

Sr. #	Scanner Type	Section	Placement	Quantity	
				Scanner	Additional Software Licenses
1	PASS-THRU	IMPORTS	SAPT BERTH	01	03
2	PASS-THRU	EXPORTS	SAPT PRE-GATE	01	03
3	PASS-THRU	IMPORT / EXPORT	DP WORLD	01	03
4	PASS-THRU	IMPORTS	MOBILE QICT	01	03
5	PASS-THRU	IMPORTS	MOBILE KGTL	01	03
6	MOBILE	IMPORTS	MOBILE KICT	01	03
Total =				06	18

The functional requirements, as given hereunder, shall also be a constituent of the technical specifications for an X-ray inspection system. Any omission in the specifications should not relieve the Bidder of its obligation to deliver a complete and fully operational X-ray inspection system compliant with international regulations and with the requested technical specifications.

The bids from the bidders shall include the following elements:

- Preparation of the sites to accommodate the scanners according to the requirements of Scanner Installation.
- All necessary civil work to connect the scanner and related equipment to mains (electricity, data transfer network, etc.),

- Installation of all necessary and regulatory safety measures for the operators and public,
- Labour and materials for the manufacturing of the scanner and related equipment,
- Delivery of the scanners and related equipment on the designated sites,
- Safety measures for the operators and public,
- Assembly, installation and testing of the systems at the pre-determined sites,
- Training of the system operation, maintenance and image analysis,
- Training on scanner operation management,
- Factory and On-Site acceptance tests,
- Commissioning and assistance to end user,
- Equipment insurance up to the conclusion of the on-site equipment acceptance procedures by the Customer,
- Preventive maintenance during the warranty period,
- Corrective maintenance during the warranty period (including any necessary parts replacement)

A. GENERAL SPECIFICATIONS AND FUNCTIONALITIES	
A.1. Scanning method	<p>A.1.1 The container / vehicle shall be driven through the portal and the x-ray inspection system shall automatically capture the container ID, Reg. Plate No and scanning will proceed automatically. The scanning of the vehicle starts after driver's cabin. No conveying system shall be required.</p> <p>A.1.2 The x-ray inspection system shall enable</p> <ul style="list-style-type: none"> (a) The possibility of adding additional customs information to form part of the radiosopic image after scanning, where necessary. (b) Immediate and postponed image analysis. If the image analysis was postponed, the system shall be able to add additional customs information to the complete image analysis as required. (c) The container / vehicle shall be driven through the scanning tunnel. Scanning will be automatically activated. No conveying system shall be required.
A.2. Direction of scanning	The x-ray inspection system shall provide lateral scanning.
A.3. Types of vehicles to be scanned	The X-ray inspection system shall be capable of screening loads such as: marine containers, covered truck, refrigerated truck, trailers towed by trucks, from Bumper to Bumper. All passenger type vehicles must be scanned at the low X-Ray dosage as per the ANSI standards – safe for humans.
A.4. Dimensions of vehicles to be scanned	<p>The Bidder shall specify the maximum dimensions of the vehicles that may safely pass through the tunnel of the system and be scanned. The equipment shall at least accept vehicle with the following dimensions:</p> <ul style="list-style-type: none"> • Width: up to 3.5 m (truck mirror level) • Minimum scanning height at lowest point: approx. 15cm • Height: up to. 4.7 m

	<ul style="list-style-type: none"> • Standard length: 18m
A.5. Inspection field of view without corner cut off	<p>The Bidder shall specify the inspection field of view without corner cut off, it should be at least:</p> <ul style="list-style-type: none"> a) Height: from 0.15m (at lowest point) to 4.7m or higher (On side of x-ray emission) b) Width: 2.6 meters
A.6. Scanning speed	<p>The system shall be capable of scanning vehicles (of the sizes defined in A4) moving at speeds between 5 and 15 km/h, while providing a comprehensive quality image (as specified in B3 and B4) for the operators. The Bidder shall specify the optimum speed of its equipment in this range (Standard Scanning Speed).</p> <p>IMPORTANT: All scanner performances are to be demonstrated at this Standard Scanning Speed.</p>
A.7. Throughput	<p>The system must be capable of scanning at least 100 trucks of 18m length-length per hour and comply with radiosopic performances as specified in B3 and B4. This throughput must be accomplished at the Standard Scanning Speed</p>
A.8. System safety	<ul style="list-style-type: none"> a) A system of emergency shutdown switches shall be provided at convenient locations such that when one switch is activated x-rays cannot be produced. The Bidder shall specify the number and location of these switches. A monitoring system to display the status of the various safety interlock switches must be provided at the operator's workstation. b) There shall be a device (radiometer) in the operator's room to monitor both the dose rate and absorbed dose during scanning. This device shall be wired into the safety loop of the scanner such that when the dose rate exceeds a certain value, x-ray emission stops. c) There shall be a minimum of 4 radiometers installed at four different points of the perimeter of the exclusion area to continuously measure the dose received at these points.
A.9. Electrical system	<p>The x-ray scanner shall be capable of being powered by the national electricity network and shall not exceed a consumption of 45 kVA. The system must be equipped with its own safety and power backup (UPS and Generator) equipment for safe shutdown.</p> <p>The Bidder may offer any power conditioning equipment that may be necessary after analyzing the characteristics of the on-site power provision.</p>
A.10. Operation	<p>The system shall be operated by the Purchaser's staff or a designated service provider, without the need for a constant presence on site of the Supplier's technical or operational staff.</p>
A.11. Working conditions	<p>The X-Ray inspection system shall be capable of operating 24 hours a day, 7 days a week in the open air, in the following conditions:</p> <ul style="list-style-type: none"> a) Temperature 0° C to + 50° C (-20 0° C to +40° C) b) Relative humidity up to 99%.

	c) The system must be resistant to the wind (constant 70km/hour and gusts up to 100 km/hour)
A.12. System warm-up time	The system shall be capable of performing all its operations within 30 minutes of switching it off from cold.
A.13. Discrimination features organic /inorganic stripping	<p>The x-ray inspection system shall be equipped with a true 4-class material discrimination feature and displayed on the radioscopic image. The 4-class shall be distinguished on the image with 4 colors indicating Organic and Inorganic materials.</p> <p>Each scanning sequence shall be performed with the discrimination feature activated and in a single pass at a standard speed between 5 to 7 km/h.</p>
A.14. Discrimination performances	The discrimination performance rate shall be measured by scoring images and the Bidder shall state in the submission how the test will be performed and demonstrate the performance on different materials (Glass, Steel, Sugar, Water, Aluminum, Lead, Copper, Carbon, Liquid and Salt) or through standard OEM test pieces.
B. REQUIREMENTS FOR THE X-RAY EMISSION UNIT AND RADIOSCOPIC PERFORMANCES	
B.1. X-ray source(s) type	The ionizing radiation shall be provided by electrical X-ray generators of suitable energy (6 MeV for cargo minimum) but not exceed 7Mev and human safe dosage for occupied areas minimum) to provide the penetration defined in B.2 and the performance in B.3. Radioactive sources or neutron generators will not be accepted.
B.2. Penetration	The energy and intensity of the electron beam at the best location should be sufficient to penetrate at least 320 mm of steel according to IEC 62523 norm at Standard Scanning Speed as per ANSI 42.46.2008.
B.3. Imaging and Image Quality Indicators	<p>At the Standard Scanning Speed, the x-ray inspection system shall be capable of achieving at least the following image quality performances as per ANSI 42.46.2008:</p> <ul style="list-style-type: none"> a) Contrast @50%: 2% (as a maximum) b) Wire detectability in open air: 2mm (as a maximum) c) Spatial resolution (vertical): 5mm (as a maximum) <p>The x-ray inspection system shall be capable of achieving contrast sensitivity of at least:</p> <ul style="list-style-type: none"> • 1mm behind 100 mm of steel at a scanning speed of 7km/h according to IEC 62523 norm <p>The x-ray inspection system shall be capable to detect steel wire diameter of at least:</p> <ul style="list-style-type: none"> • Ø 5 mm behind 100 mm of steel at a scanning speed of 7km/h according to IEC 62523 norm
C. RADIOACTIVE MATERIAL DETECTION	

C.1. Radioactive material detection	<p>The system shall be equipped with an integrated radioactive material (gamma) detection device. It shall have the following specifications:</p> <ul style="list-style-type: none"> • X-ray imaging and detection of radioactivity must be completed in a single pass. • Detection probability > 97% and false alarm level of 0.1% or less. • Minimum activity detection for a non-shielded source in open air at 7km/h: <ul style="list-style-type: none"> Cs 137 » 350 kBq Co 60 » 150 kBq Am 241 » 3500 kBq • Radioactivity detection must be integrated in the image analysis software. • In case of positive detection, it must be displayed on the image and an alert message must appear on the screen. <p>The radioactive material detection system must conform with ANSI 42.35-2016. The conformity with ANSI standard must be demonstrated by a certificate issued by an authorized laboratory and produced at the Factory Acceptance tests.</p> <p>The display of the radioactive alarm should be indicated on the same image analysis workstation and at the same time than the radiographic image in order to give information about the position of the source on the X-ray image. The gamma level shall be displayed using a coloured form.</p>
D. OPTICAL CHARACTER RECOGNITION	
D.1. Optical Character Recognition (OCR) for license plate and container ID	<ul style="list-style-type: none"> a) Container ID: OCR must be able to recognize the container identification number for an ISO container. b) The Scanner's OCR must be able to recognize the front and the rear license plate numbers of the truck. c) Recognition of license plates ID and container ID must be completely autonomous, and the information must be added automatically to the scanner database, all the datasets must contain the OCR information that will be saved and displayed with x-ray image and available when using the search image function. d) OCR accuracy is to be demonstrated to be greater than 95%. For the remaining 5% or less that the OCR is not determined, OCR should prompt the operator to confirm the ID before saving it in the database to be subsequently displayed with the images. <p>The OCR and License plate information shall be displayed as part of the dataset of that radioscopic image and shall be searchable.</p>
E. REQUIREMENTS FOR HEALTH AND SAFETY	

E.1. Radiation safety zone & dose	<ul style="list-style-type: none"> a) The scanner radiation protection system will conform with ICRP 103 and WHO and relevant ANSI standards. b) The safety zone shall be as reduced as possible in order to enable the installation of the scanner, its control, technical rooms, all auxiliary equipment, access and roads as well as parking areas in an area not larger than 55mx20m (L x W) It is to be achieved by sufficient shielding material (concrete walls, gabions, etc.) to meet the required radiosopic parameters. Any such shielding is to be presented in the offer and included in the bid price. c) The radiation dose to System Operators and personnel outside the boundary of the Radiation Control Area shall not exceed 0.5µSv/hour. d) A radiometer shall be installed in the Control room of the scanner to constantly measure the radiation. It should preferably be interlocked as an integral part of the Radiation Safety System. X-ray emission must automatically cease if dose is above 0.5µSv/hour.
E.2. Absorbed dose in driver cabin	<p>During operation of the X-ray inspection system standard scanning speed the typical dose absorbed in the driver cabin shall not be more than 0.1 ~ 0.2 µSv per scan. Or less than 500nSv</p>
E.3. Absorbed dose in the cargo	<p>The accumulated x-ray dose in the cargo during a scan at standard scanning speed shall be less than 10 µSv per scan.</p>
E.4. Film safety	<p>The X-ray inspection process shall guarantee no degradation of photographic film up to 800 ASA.</p>
E.5. Safety to magnetic data carriers	<p>The X-ray inspection process shall not be harmful to computer memory media, e.g., cassettes, disks, or semi-conductor memories.</p>
E.6. Safety to food and drugs / medicine	<p>The X-ray inspection process shall not be harmful to foodstuffs, medicines, or medical appliances.</p>
E.7. Means of communication at the scanner site	<ul style="list-style-type: none"> a) A two-way radio system for communication by the operators shall be provided. b) A public-address system to deliver messages to any people in the site and an intercom to allow easy communication between operators.

E.8. Means of video control	<p>a) A closed-circuit colour CCTV system shall be supplied in order to allow the system operator to view all the areas within the safety perimeter. The video is displayed in the scanner control room of the scanner site.</p> <p>b) Provision should be made for connection to the remote CCTV control system both in the scanner control room as well as in the RIAC where CCTV images are to be displayed in real time.</p> <p>c) CCTV Systems Shall be compliant with the relevant ONVIF profile.</p> <p>d) A minimum number of four (4) colour day and night cameras shall be mandatory to present the view of the following areas of the scanner site:</p> <ul style="list-style-type: none"> • Entrance of the exclusion area. • Exit of the exclusion area. • Scanning area. • Operator cabin <p>e) A local Network Video Recorder (NVR) with storage capacity of at least 8 TB shall be provided to allow to provide visual proof to stakeholders in case of disagreement regarding which containers have been scanned.</p>
E.9. Means of warning	<p>a) A warning siren shall automatically sound prior to, and during the emission of ionizing radiation.</p> <p>b) The 'prior' and the 'emitting' sound shall be different</p> <p>c) The sound level emitted must be at least 65 dB at any point on the safety perimeter.</p> <p>d) Warning light indicating the status of the accelerator (beam: OFF, READY, EMITTING) and the status to access the safety area shall be mandatory.</p> <p>e) The suitably positioned warning lights shall flash prior to, and during the emission of ionizing radiation.</p> <p>f) Appropriate traffic lights and barrier (optional)</p>
E.10. Emergency stop	<p>A system of easily accessible emergency shutdown switches shall be provided. The Bidder shall specify their number and location.</p>
E.11. Interrupting scanning	<p>X-ray emission must automatically cease if a truck stops or moves at less than 5 km/h during passage through the scanning portal</p>
E.12. Speed radar	<p>A speed radar shall measure the speed of vehicles to be inspected. The measurement is to be displayed at the scanner tunnel entrance for driver information as well as in the scanner control room.</p>

F. REQUIREMENTS FOR SUPERVISION AND CONTROL

F.1. Main functionalities	<p>Main functionalities are:</p> <ul style="list-style-type: none"> a) Switch on/off the complete system, b) Display and monitor the live x-ray image during scanning and subsequently confirm that the image is captured correctly or not, c) Manual data check-in, d) Store all acquired images and their related documents, e) Ensure the scanning of related documents that will be associated with the image to be part of the dataset of the radioscopic image, f) Monitor radiation protection safety compliance.
F.2. Notification & supervision/ control system	<ul style="list-style-type: none"> a) All alarms, warning messages & system faults will be automatically sent to the system operator through one supervision/control equipment that provides full monitoring of the system status. b) Every alarm, warning message & system fault shall be archived and should be made available whenever the need arises. c) The supervision/control equipment must be located in the scanner control room enabling the operators to have a constant view of the X-ray equipment status. d) The status, alarms, warnings, and fault messages on the System must also be routed to the remote Central Scanner System. e) Must provide a user-friendly way of handling alarms, individually or as a group.
F.3. Diagnostic and Testing tools	<p>Bidder should propose any necessary diagnostic testing tools to be integrated into the scanner control room that will be used for troubleshooting technical problems in the scanner.</p>

G. REQUIREMENTS FOR SCANNER CONTROL ROOM AT EACH SITE

G.1. Control room	<p>A local control room (bungalow) shall be provided and equipped with all necessary components for stand-alone operation, control, and monitoring of the scanners. The components should provide the following, among others:</p> <ul style="list-style-type: none"> a) Means to see and monitor the live x-ray image during scanning and subsequently confirm that the image is captured correctly or not. b) A strong and one-way transparent glass window for the operator to see the truck as it passes just before scanning.
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	<p>c) Means to store all acquired images and their related documents.</p> <p>d) Function to allow the scanning of related documents that will be associated with the image to be part of the dataset of the radioscopic image.</p> <p>e) There shall be at least Two (2) Image analyst workstations to display the radioscopic images and associated data. The Image Analysis Module (IAW) shall have the following minimum specifications:</p> <ul style="list-style-type: none"> • 2x 27inch minimum diagonal, high-resolution flat panel LCD monitor, one for image, one for associated data • Windows Operating System with latest stable version • Latest version of Microsoft Edge browser • Micro Form Factor PC with OEM Mounting Kits • 1 TB SSD Hard Drive • 16GB RAM • Intel i-7 or above processor or equivalent • 1x Gigabit Network port • Graphics card with at least 4GB memory (unless the Graphics processing/GPU is present on the server) • UK Keyboard and Mouse or its equivalent <p>NOTE: The above equipment specifications are a minimum requirement. Bidders are free to offer more highly performing equipment.</p> <p>Sufficient space shall be provided to allow the operators to work and move around comfortably. Space for future placement of at least one more workstation must be allocated.</p>
G.2. Operating System	<p>All computers in the Scanner Control Room should be running the latest stable Microsoft Windows or Red Hat Linux 7 or above operating system version.</p>

G.3. Storage	<p>The Storage component of the X-ray inspection system must have the capacity to locally store at least 200,000 datasets (Image plus all related documents) and by adding external drive up to 200,000 datasets (Image plus all related documents).</p> <p>Notes:</p> <ul style="list-style-type: none"> • The system must immediately and automatically transfer to the Central Image Repository (CIR - Islamabad) all correctly captured datasets. Radioscopic images are to compliant with UFF standard. A copy of these datasets should be stored locally in the scanner database. Data must be optimally compressed to ensure fast (less than 30 seconds) data transfer to CIR. The Bidder will indicate the size of the datasets and the bandwidth requirement to achieve such objective. • The system should be able to overwrite datasets older than three months or when the storage unit is becoming full. And should provide notification before overwriting and audit of all data overwrites. No data should be overwritten before it has been successfully transferred to the CIR. • Storage disks should be hot swappable and configured in RAID (RAID 1 for OS, RAID 6 for storage) and shall provide fast data access and retrieval and full data redundancy and protection against loss or corruption of data. • A warning will be issued to the operator when a defined percentage of the storage capacity has been reached. This percentage shall be configurable.
G.4. Database	<p>The computer system shall include an Enterprise database (MS SQL or Oracle) with compression capability for easy handling of datasets (Image plus related documents).</p>
G.5. Monitors	<p>The monitors should have a minimum diagonal length of 32 inches and should be able to display high-resolution images with a minimum resolution of 1,920 by 1,080 pixels.</p>
G.6. SMART UPS & Generator	<ol style="list-style-type: none"> a) The computer system of the X-ray inspection system shall be powered through an Online Double Conversion Uninterruptible Power Supply (UPS). b) The UPS will have a capacity sufficient to prevent any possibility of loss of data in case of power failure. c) The computer system shall have an automatic switch-off procedure to guarantee a normal switch-off of the computers in case the power failure is longer than the UPS autonomy. d) UPS should be capable of powering the scanner computers for not less than 15 minutes. e) Diesel Generator set (Soundproof and weather resistant canopy) should be provided with each scanner system to power up the scanner in the event

	of main power failure. The generator must be equipped with ATS/AMF and all other required safeties in the panel.
G.7. Switch ON/OFF	The complete computer system should be powered ON and powered OFF by pressing one protected button. The system should also be capable of being switched off from the operator's control screen by way of a 'Soft' button and operator confirmation.
G.8. Connectivity/ Interfacing/ Integration with Remote systems	<p>The scanner system shall have a Web Services interface that will enable the scanner to exchange information with the Remote Image Analysis Centre (RIAC) and the Central Image Repository (CIR) or other remote systems. This interface shall be compliant with the World Customs Organization UFF standards.</p> <ul style="list-style-type: none"> a) The scanner system should be able to receive advance information from the RIAC, WeBOC or other information systems and automatically associate it with related scanning file thanks to the container number of the goods being scanned. b) The scanner system should be able to immediately and automatically send all correctly captured x-ray images (UFF standard) together with their associated data/documents to the CIR or other remote external systems. <p>The Bidders must quote software user licenses cost in respect of each scanner whose quantities shall be subject to increase with the purpose of integration of scanners with Remote Image Analysis Centre whose strengthening is in process.</p>
H. REQUIREMENTS IMAGE EVALUATION FUNCTIONS	
H.1. Image Presentation and Evaluation Functions	<p>The X-ray image shall be displayed on the main screen of the image analysis workstation. An additional screen will be provided to display cargo related data and documentation.</p> <p>The Bidder's analysis application shall provide the following functionalities:</p> <ul style="list-style-type: none"> a) Brightness and the contrast adjustment. b) Pre-defined brightness and contrast settings adapted to high absorption areas, medium absorption areas and low absorption areas. c) Pre-defined image sharpness settings (un-sharpen, normal sharpness, sharpness enhancement). d) Data saving on external peripherals (as JPEG, BMP or TIFF). e) Adjustable High-density absorption alarm. f) Colour look up tables (LUT – pseudo colour). g) Automatic LUT cycling feature. h) Reverse video mode. i) Emboss feature j) Undo all X-images processing filters in one action. k) Redo all X-images processing filters in one action. l) Undo last X-ray image treatment (can be used to undo all last X-ray images processing filters one by one). m) Redo last X-ray image processing filter (can be used to redo all last X-ray images processing filters one by one).

	<ul style="list-style-type: none"> n) Zoom levels up to x16 and automatic zooming that adapt the image to the size of the screen). o) Adjustable zoom level with the wheel of the mouse. p) Independent zoom in the ROI (Region Of Interest) q) Ability to set marks on suspect areas of the image, a comment can be filled-in for each mark and stored with the images data set. r) Region of Interest (ROI) on the X-ray image can be freely selected and framed with the mouse. s) For each ROI, possibility to apply an image filter independent and different from main image filters. t) If treatments are applied on an ROI identified as a marker, it will be archived and presented in review mode. u) Regions of interest can be moved and applied treatments must remain active during the action. v) Two different vehicle counters: a daily counter and a session counter w) Histogram scale adjustment tools. These tools have an effect either on the complete image or on a portion of the image (this takes place in a pre-defined, re-sizeable and movable window) x) Measuring tool to determine the size of objects on the screen y) Histogram equalization functions of the complete image, based on selectable local selection of reference pixels. z) Image printing function (image, operator comments and cargo data are printed on separated sheets) aa) Automatic Radioactive Detection alarm (if automatic radiation detection option is installed/chosen by the client) bb) Display in form of bar graph the gamma level in a coloured form (if automatic radiation detection option is installed/chosen by the client) cc) Automatic image scanning function (roaming) with selected image-processing functions. The operator can adjust the speed of the scanning and start it from any part of the image by setting the window to the desired location. dd) It shall be possible to retrieve historical images by reference to certain fields such as: container/vehicle identification number, description of goods, date, trader name etc. ee) Comparison function (recall of stored image simultaneously displayed with active image) ff) Search engine in order to find a previous scanned picture stored in the database. gg) In case the manifest workstation is not connected, it is possible to key-in the data in the data form (i.e. truck or container ID, etc...) hh) "Pause" mode that enables to suspend the reception of images on the image analysis workstations. ii) Displaying of the X-ray image in "full screen" on a single screen for analysis and treatment. jj) Windowing on a single screen, for viewing the whole data related of vehicle under analysis. kk) In review mode, simultaneous display of a minimum of 4 X-ray images on one screen. ll) In comparison mode, simultaneous display of a minimum of 4 X-ray images on one screen.
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	<p>mm) List of customizable shortcuts for treatments the most often used by the operator.</p> <p>nn) Simple access to all GUI functionalities with two mouse click.</p> <p>oo) Quick access to images treatment predefined by the operator via a shortcut</p> <p>pp) GUI with a Customizable work environment (several display configurations).</p>
<p>H.2. Automated evaluation functions (Preferred)</p>	<p>The Bidder shall propose automated evaluation functions that can be used in the normal data flow and provide background validation of the following functions:</p> <ul style="list-style-type: none"> a) Automated detection of cigarettes in the goods. b) Automated classification of homogenous and non-homogenous goods. c) Detect shielded areas in the goods. d) Automatic classification of empty/nonempty containers. e) Automatic separation of containers when more than one container is loaded in one truck f) Detection of narcotics g) Detection of currency h) Automatic detection of electronic goods i) Automatic detection of firearms, explosives (powder, plastic, and liquid) and ammunition. j) Automatic Radioactive Material Detection (Gamma & Neutron) <p>The Bidder shall state clearly and elaborate how the functions above shall be achieved by the proposed system.</p> <p>For each proposed solution the Bidder shall provide a fully detailed specification that shall include:</p> <ul style="list-style-type: none"> a) Rate of false positives b) Rate of false negatives c) Image quality assumptions d) Accuracy in the case of quantity or classification <p>The Bidder may propose any other functions that will enhance Image analyst detection capacity.</p>
<p>H.3. Threat Image Projection (TIP)</p>	<p>These images shall be injected into the workflow to test Operators' reactions. The Bidder shall describe the management and injection process. The following functionality is required:</p> <ul style="list-style-type: none"> a. The ability for the user to create Threat Images based on selected images from the scanners. b. Editing tools should be provided that allow the user to insert image items from a library, such as firearms, drugs, alcohol, explosives etc. c. Threat Images are to be routed to Image Analysts on a random basis for the purpose of testing the Analysts alertness and ability to determine threats and anomalies.

	<p>d. The parameters for this functionality shall be editable to allow the system administrator to determine how often Threat Images are inserted into the workflow. Threat Images may also be routed immediately to a particular workstation by a system administrator. A software interface shall be provided for this purpose.</p> <p>The system shall keep records of all Threat Image transactions including the image identifier, date/time, Image Analyst ID, inspection result and response time.</p>
H.4. Image Comparison	The Bidder proposes to provide a method or software application to automatically compare live/scan images to images in the reference database and compare and present the differential results.
H.5. Image retrieval	<p>The Bidder shall provide tools that allow archived images to be retrieved based on a number of criteria that may include:</p> <ul style="list-style-type: none"> • Container Identification Number. • HS Code. • goods description • Customs declaration number • Terminal operator • ICD operator Etc.
J. INFRASTRUCTURE OF THE SCANNER	
J.1. Scanner set-up	<p>At minimum, the scanner set-up shall be composed of the following items:</p> <ul style="list-style-type: none"> • Scanner portal with all related equipment • Shielding walls, • Technical room (s) of sufficient size, • Scanner control room • Canopy to protect the scanner device, • Fence and appropriate safety signage of the scanning and safety area, • Truck guides to protect the scanner from accidents with trucks. • Height gauge system to ensure oversized trucks are not allowed to enter the scanning area. <p>The Bidder will provide in their offer a preliminary drawing that presents the offered installation. It will include an overall scanner site layout adapted to the designated site of installation at the seaport terminal. The Bidder will also, provide a quantitative list and qualitative description of the scanner site infrastructure and equipment they are proposing to comply with this requirement.</p>
J.2. Scanner control Room	<p>The scanner control room will accommodate the system operator workstations and Image operator workstations.</p> <ul style="list-style-type: none"> a) It shall be an Air-Conditioned OEM fabricated bungalow, adapted to the climate conditions. b) It must be equipped with appropriate lighting, furniture, toilets, sink and a refrigerator.

	<p>c) It will be large enough to accommodate all control equipment and at least 3 operators (1 System Operator and 2 Image Analysts)</p> <p>d) The room should have a one-way glass window for the operator to see the physical trucks to be scanned,</p> <p>e) Space for the future placement of at least one more workstation shall be provided.</p> <p>The Bidder will provide a quantitative list and qualitative description of the equipment they are proposing to comply with these requirements.</p>
J.3 Scanner site preparation	<p>The Bidder shall be responsible for the preparation of the scanner site at the seaport terminal.</p> <p>The scope of supply of the Supplier includes the following:</p> <ul style="list-style-type: none"> • Surface preparation for the installation of the scanner, the control room and any other peripheral systems related to the scanner, • Surface preparation for the transit of the trucks (up to 100 tons) from scanning site entrance until site exit, including parking areas, • Scanning site perimeter fencing (2,5 m high), anti-climb fencing panel type, topped with stainless steel razor-wire • Access control to the scanning site entrance and to control room, • Lighting for the whole scanner site, • Connection to mains services (electricity, water, sewage, etc.) • Connection to data transfer network. <p>The Bidder will present a lay-out of the scanner site adapted to the designated site at the seaport and a detailed description of the offered site preparation supply.</p> <p>The Bidder will conform to all relevant civil works and construction regulations at SAPT, PICT, KICT and QICT terminals.</p>
J.4. Scanner Protection	<p>a) A canopy covering the whole scanner inspection area will be installed to protect the scanner and associated auxiliary systems (OCR, CCTV, etc.) against rain, dust, wind, humidity, and sun.</p> <p>b) Appropriate physical protections will be installed to prevent trucks from damaging the scanner system and other subsystems while they are moving through the scanner site. It includes all necessary vertical and horizontal protections.</p> <p>c) An appropriate lightning strike (lightening arrestor with earth pits) and fire protection system shall be provided.</p>
J.5. Lighting	<p>The Bidder will provide in their offer an appropriate lighting system of the scanner site that allows efficient and safe operation 24h per day, minimum of 50lux in the operational area.</p>

K. STANDARDS AND QUALITY	
K.1. Standards	<p>The standards used shall be:</p> <ul style="list-style-type: none"> • General Measurement: Metric • Radiation safety: ICRP 103 (updated ICRP 60) or equivalent • Electrical: Pakistan Electricity standards • Electrical and mechanical: EC or US standard or equivalent • Electromagnetic compatibility: EC or US standard or equivalent • All external mechanical parts to be protected to at least IP65 or equivalent. • The Bidder shall prove the conformity of the goods with all applicable EU or US standards, guidelines and directives or its equivalent. • The x-ray inspection system shall be in strict compliance with the most stringent international regulations such as ICRP-103, WHO, US and EC regulations or equivalent • Radioscopic performances: ANSI 42.26-2008. • National Health & Safety requirements [Pakistan Occupational Health and Safety Act 2018]
K.2. ISO	The Bidder must have, and shall present, ISO 9001 quality assurance certificate in manufacturing and providing X-Ray inspection systems.
L. MOBILE SCANNER (Trailer Mounted)	
L.1. GENERAL REQUIREMENT	<p>All above in addition to the below specification:</p> <ul style="list-style-type: none"> • General Measurement: Metric • Mobile Scanner with Tow Hitch Bar along with Locally provided Tow-Truck / Prime Mover (Isuzu or Equivalent), able to efficiently tow / manage the scanner and its operations. • Weight: Not more than 30 Tons (Excluding Prime Mover/Tow-Truck) • Scanning Height: From 0.25m to 4.75m • Inspection Throughput: Up to 20 trucks per hour in mobile mode and up to 120 in pass through mode. • Max. Dimensions: 4.75m x 3.50m x 28m • Cabin Options: Air-Conditioning, Fridge, Radio Communications, Cabin and External Lights, Storage Racks. Cabin can accommodate at least 4 operators. • Image Workstations: Minimum 2 x 22-inch flat LCD screen Micro-Form Factor PC workstations with Intel Core-i7 processor, 16 GB RAM, 1 TB SSD, Microsoft Windows O/s, Data Communication and Storage System, CCTV Monitoring and Recording System with 1 x PTZ Camera, DVD Burner, Color Printer, Database Workstation with min. 250,000 images storage capacity. • Safety Lights with Sirens • Infrared Safety Parameter zone.

L.2. Purpose	<p>To verify that the contents, whether imported, in transit or exported, of a cargo container or any type of truck, correspond to the bill of lading / declaration and / or do not conceal prohibited or contraband items. The inspection should allow the image operator to distinguish the type of goods.</p> <p>The Mobile Scanner should base on a trailer chassis, allows the customer to scan vehicles with a powerful equipment that can be easily moved from one control location to another.</p>
L.3. Scanning Modes	<ul style="list-style-type: none"> • Standard Mobile Mode (without the need of a tractor) • Passthrough Mode
L.4. Scanning Method	<p>a) Mobile mode: the container / vehicle is driven to the scanning location. The driver exits its truck before the start of scanning operation. In that mode, the driver's cabin is safely scanned.</p> <p>b) Pass thru mode: The container / vehicle shall be driven through the scanning tunnel. Scanning process will be automatically activated and no direct beam will be applied to the driver's cab. No conveying system shall be required.</p> <p>c) Performances must be given in normal conditions of use following the same process as operators will follow during operations. If this is not the case all values must mention in which condition, they can be achieved. Other than specified, values will be given considering the screening of a 18m long truck, made in mobile mode at a speed of 24m/min and a throughput of 20 trucks/hour.</p> <p>The offered equipment shall have the capability to scan driver cabin.</p>
L.5. Direction of scanning	<p>The x-ray inspection system shall provide lateral scanning. The system must be able to handle cargos coming from both directions (front and rear). The direction is defined while the system is setup (no change between two scans).</p>
L.6. Type of Vehicle to be scanned	<p>The X-ray inspection system shall be capable of screening loads such as: marine containers, covered truck, refrigerated truck, trailers towed by trucks, busses, LTV and cars etc. from Bumper to Bumper. All passenger type vehicles must be scanned at the low X-Ray dosage as per the ANSI standards – safe for humans.</p>
L.7. Dimensions of vehicles to be scanned	<p>The Bidder shall specify the maximum dimensions of the vehicles that may safely pass through the tunnel of the system and be scanned. The equipment shall at least accept vehicle with the following dimensions:</p> <ul style="list-style-type: none"> • Width: up to 3.5 m • Minimum scanning height at lowest point: approx. 0.25meter to 5.2 meter • Standard length: 18m • Weight: up to 30 Ton <p>The system must have at least two scanning heights to allow the scan of light vehicles.</p> <p>The system must have at least two scanning angles to allow the scan of cargos at</p>

	different angles.
L.8. Scanning Speed	<p>The range of scanning speed should be:</p> <ul style="list-style-type: none"> • Mobile mode: 12 and 24 m/min – 36m/min could be a plus • Passthru mode: comprised between 5 and 15 km/h with a comprehensive image for the operators.
L.9. Throughput	In Mobile Mode Scanning Throughput should be at least up to 20 Trucks per hour and in Passthrough mode up to 100 Trucks per hour.
L.10. System Safety	<p>a) A system of emergency shutdown switches shall be provided at convenient locations such that when one switch is activated x-rays cannot be produced. The Bidder shall specify the number and location of these switches. A monitoring system to display the status of the various safety interlock switches must be provided at the operator's workstation.</p> <p>b) The offered equipment shall have set of sensors for demarcation of safety exclusion zone so that the scanning operation is stopped whenever the system is interrupted.</p> <p>c) A radiation meter must be available in the operator cabin to monitor the safe dose limit.</p>
L.11. Electrical System	<p>The x-ray scanner shall be capable of being powered by the national electricity network and shall not exceed a consumption of up to 45kVA. The system must be equipped with its own safety and power backup (UPS and Generator) equipment for safe shutdown.</p> <p>The Bidder may offer any power conditioning equipment that may be necessary after analyzing the characteristics of the on-site power provision.</p> <p>The autonomy of the on-board power supply must be at least 80 hours.</p>
L.12. Operation	The system shall be operated by the Purchaser's staff or a designated service provider, without the need for a constant presence on site of the Supplier's technical or operational staff.
L.13. Working Condition	<p>The X-Ray inspection system shall be capable of operating 24 hours a day, 7 days a week in the open air, in the following conditions:</p> <p>a) Temperature -15° C to + 50° C</p> <p>b) Relative humidity up to 95%.</p>
L.14. Discrimination features organic/inorganic stripping	The x-ray inspection system shall be equipped with a true 4-class material discrimination feature and displayed on the radioscopic image. The 4-class shall be distinguished on the image with 4 colors indicating Organic and Inorganic materials.

	Each scanning sequence shall be performed with the discrimination feature activated and in a single pass at a standard at a standard speed between 3 to 5 km/h in Passthrough mode.
L.16. Discrimination performances	The discrimination performance rate shall be measured by scoring images and the Bidder shall state in the submission how the test will be performed and demonstrate the performance on different materials (Glass, Steel, Sugar, Water, Aluminum, Lead, Copper, Carbon, Liquid and Salt) or through standard OEM test pieces.

M. REQUIREMENTS FOR THE X-RAY EMISSION UNIT AND RADIOSCOPIC PERFORMANCES

M.1. X-ray source(s) type	The ionizing radiation shall be provided by electrical X-ray generators of suitable energy (6 MeV for cargo minimum) to provide the penetration defined in B.2 and the performance in B.3. Radioactive sources or neutron generators will not be accepted. The accelerator must be a linear one.
M.2. Penetration	The energy and intensity of the electron beam at the best location should be sufficient to penetrate at least 340 mm of steel at Standard Scanning Speed as per ANSI 42.46.2008.
M.3. Imaging and Image Quality Indicators	At the Standard Scanning Speed, the x-ray inspection system shall be capable of achieving at least the following image quality performances as per ANSI 42.46.2008: a) Contrast % behind 100mm of steel: 0.7 to 1% (as a maximum) b) Wire detectability in open air: 2mm (as a minimum)

N. RADIOACTIVE MATERIAL DETECTION

N.1. Radioactive material detection	<p>The system shall be equipped with an integrated radioactive material (gamma) detection device. It shall have the following specifications:</p> <ul style="list-style-type: none"> • X-ray imaging and detection of radioactivity must be completed in a single pass. • Detection probability > 97% and false alarm level of 0.1% or less. • Minimum activity detection: <ul style="list-style-type: none"> 137Cs » 350 kBq 60 Co » 150 kBq Am 241 » 3500 kBq • Radioactivity detection must be integrated in the image analysis software. • In case of positive detection, it must be displayed on the image and an alert message must appear on the screen. <p>The display of the radioactive alarm should be indicated on the same image analysis workstation and on the same time than the radiographic image in order to give information about the position of the source on the X-ray image.</p>
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O. OPTICAL CHARACTER RECOGNITION	
O.1. Optical Character Recognition (OCR) for license plate and container ID	<ul style="list-style-type: none"> a) Container ID: OCR must be able to recognize the container identification number, for an ISO container. b) The Scanner OCR must be able to recognize the front and the rear license plate numbers of the truck. c) Recognition of license plates ID and container ID must be completely autonomous, and the information must be added automatically to the scanner database, all the datasets must contain the OCR information that will be saved and displayed with x-ray image and available when using the search image function. d) OCR accuracy is to be demonstrated to be greater than 95%. For the remaining 5% or less that the OCR is not determined, OCR should prompt the operator to confirm the ID before saving it in the database to be subsequently displayed with the images. <p>The OCR and License plate information shall be displayed as part of the dataset of that radioscopic image and shall be searchable.</p>
P. REQUIREMENTS FOR HEALTH AND SAFETY	
E.1. Radiation Safety zone & dose	<ul style="list-style-type: none"> a) The scanner radiation protection system should conform with ICRP 103 and WHO and relevant ANSI standards. b) The safety zone shall be as reduced as possible in order to enable the installation of the scanner, its control, technical rooms, all auxiliary equipment, access and roads as well as parking areas in an area not larger than 40mx40m (L x W) It is to be achieved by sufficient shielding material (concrete walls, gabions, etc.) to meet the required radioscopic parameters. Any such shielding is to be presented in the offer and included in the bid price. c) The radiation dose to System Operators and personnel outside the boundary of the Radiation Control Area shall not exceed 0.5µSv/hour. d) A radiometer shall be installed in the Control room of the scanner to constantly measure the radiation. It should preferably be interlocked as an integral part of the Radiation Safety System. X-ray emission must automatically cease if dose is above 0.5µSv/hour.

P.2. Absorbed dose in driver cabin	During operation of the X-ray inspection system standard scanning speed the typical dose absorbed in the driver cabin shall not be more than 0.1 ~ 0.2 μSv per scan . Or less than 500nSv
P.3. Absorbed dose in the cargo	The accumulated x-ray dose in the cargo during a scan at standard scanning speed shall be less than 10μSv per scan .
P.5. Safety to magnetic data carriers	The X-ray inspection process shall not be harmful to computer memory media, e.g., cassettes, disks, or semi-conductor memories.
P.6. Safety to food and drugs / medicine	The X-ray inspection process shall not be harmful to foodstuffs, medicines, or medical appliances.
P.7. Means of communication at the scanner site	A two-way radio system for communication by the operators shall be provided. A public-address system to deliver messages to any people in the site and an intercom to allow easy communication between operators.
P.8. Means of video control	<p>f) A closed-circuit color CCTV system shall be supplied in order to allow the system operator to view all the areas within the safety perimeter. The video is displayed in the scanner control room of the scanner site.</p> <p>g) Provision should be made for connection to the remote CCTV control system both in the scanner control room as well as in the RIAC where CCTV images are to be displayed in real time.</p> <p>h) CCTV Systems Shall be compliant with the relevant ONVIF profile.</p> <p>i) A minimum number of four (4) color day and night cameras shall be mandatory to present the view of the following areas of the scanner site:</p> <ul style="list-style-type: none"> • Entrance of the exclusion area. • Exit of the exclusion area. • Scanning area. • Operator cabin <p>j) A local Network Video Recorder (NVR) with storage capacity of at least 8 TB shall be provided to allow to provide visual proof to stakeholders in case of disagreement regarding which containers have been scanned.</p>
P.9. Means of warning	<p>c) A warning siren shall automatically sound prior to, and during the emission of ionizing radiation.</p> <p>d) The 'prior' and the 'emitting' sound shall be different.</p>

	<ul style="list-style-type: none"> e) The sound level emitted must be at least 65 dB at any point on the safety perimeter. f) Warning light indicating the status of the accelerator (beam: OFF, READY, EMITTING) and the status to access the safety area shall be mandatory. g) The suitably positioned warning lights shall flash prior to, and during the emission of ionizing radiation.
P.10. Emergency stop	<ul style="list-style-type: none"> h) A system of easily accessible emergency shutdown switches shall be provided. The Bidder shall specify their number and location.
Q. REQUIREMENTS FOR SUPERVISION AND CONTROL	
Q.1. Main functionalities	<p>Main functionalities are:</p> <ul style="list-style-type: none"> a) Switch on/off the complete system, b) Display and monitor the live x-ray image during scanning and subsequently confirm that the image is captured correctly or not, c) Manual data check-in, d) Store all acquired images and their related documents, e) Ensure the scanning of related documents that will be associated with the image to be part of the dataset of the radioscopic image, f) Monitor radiation protection safety compliance.
Q.2. Notification & supervision /control system	<ul style="list-style-type: none"> a) All alarms, warning messages & system faults will be automatically sent to the system operator through one supervision/control equipment that provides full monitoring of the system status. b) Every alarm, warning message & system fault shall be archived and should be made available whenever the need arises. c) The supervision/control equipment must be located in the scanner control room enabling the operators to have a constant view of the X-ray equipment status. d) The status, alarms, warnings, and fault messages on the System must also be routed to the remote Central Scanner System. e) Must provide a user-friendly way of handling alarms, individually or as a group.
Q.3. Diagnostic and Testing tools	<p>Bidder should propose any necessary diagnostic testing tools to be integrated into the scanner control room that will be used for troubleshooting technical problems in the scanner.</p>

Q.2. Operating System	All computers in the Scanner Control Room should be running the latest stable Microsoft Windows or Red Hat Linux 7 or above operating system version.
Q.3. Storage	The Storage component of the X-ray inspection system must have the capacity to locally store at least 50,000 datasets .
Q.4. Database	The computer system shall include an Enterprise database (MS SQL or Oracle) with compression capability for easy handling of datasets (Image plus related documents).
Q.6. SMART UPS & Generator	<ul style="list-style-type: none"> a) The computer system of the X-ray inspection system shall be powered through an Online Double Conversion Uninterruptible Power Supply (UPS). b) The UPS will have a capacity sufficient to prevent any possibility of loss of data in case of power failure. c) The computer system shall have an automatic switch-off procedure to guarantee a normal switch-off of the computers in case the power failure is longer than the UPS autonomy. d) UPS should be capable of powering the scanner computers for not less than 15 minutes. e) Diesel Generator set (Soundproof and weather resistant canopy) should be provided with each scanner system to power up the scanner in the event of main power failure. The generator must be equipped with ATS/AMF and all other required safeties in the panel.
Q.7. Switch ON/OFF	The complete computer system should be powered ON and powered OFF by pressing one protected button. The system should also be capable of being switched off from the operator's control screen by way of a 'Soft' button and operator confirmation.

R. REQUIREMENTS IMAGE EVALUATION FUNCTIONS

R.1. Image Presentation and Evaluation Functions	<p>The X-ray image shall be displayed on the main screen of the image analysis workstation. An additional screen will be provided to display cargo related data and documentation.</p> <p>The Bidders must quote software user licenses cost in respect of each scanner whose quantities shall be subject to increase with the purpose of integration of scanners with Remote Image Analysis Centre whose strengthening is in process.</p>
R.2. Automated evaluation functions (Preferred)	<p>The Bidder shall propose automated evaluation functions that can be used in the normal data flow and provide background validation of the following functions:</p> <ul style="list-style-type: none"> k) Automated detection of cigarettes in the goods. l) Automated classification of homogenous and non-homogenous goods.

	<p> m) Detect shielded areas in the goods. n) Automatic classification of empty/nonempty containers. o) Automatic separation of containers when more than one container is loaded in one truck. p) Automatic detection of electronic goods q) detection of firearms, explosives (powder, plastic, and liquid) and ammunition. r) Automatic Radioactive Material Detection (Gamma & Neutron) </p> <p>The Bidder shall state clearly and elaborate how the functions above shall be achieved by the proposed system.</p> <p>For each proposed solution the Bidder shall provide a fully detailed specification that shall include:</p> <ul style="list-style-type: none"> e) Rate of false positives f) Rate of false negatives g) Image quality assumptions h) Accuracy in the case of quantity or classification <p>The Bidder may propose any other functions that will enhance Image analyst detection capacity.</p>
R.3. Threat Image Projection (TIP)	<p>These images shall be injected into the workflow to test Operators' reactions. The Bidder shall describe the management and injection process. The following functionality is required:</p> <ul style="list-style-type: none"> e. The ability for the user to create Threat Images based on selected images from the scanners. f. Editing tools should be provided that allow the user to insert image items from a library, such as firearms, drugs, alcohol, explosives etc. g. Threat Images are to be routed to Image Analysts on a random basis for the purpose of testing the Analysts alertness and ability to determine threats and anomalies. h. The parameters for this functionality shall be editable to allow the system administrator to determine how often Threat Images are inserted into the workflow. Threat Images may also be routed immediately to a particular workstation by a system administrator. A software interface shall be provided for this purpose. <p>The system shall keep records of all Threat Image transactions including the image identifier, date/time, Image Analyst ID, inspection result and response time.</p>
R.4. Image Enhancement Function	<ul style="list-style-type: none"> • in depth information display of the objects located into the scanned truck with a minimum of 3 indication of depth, displayed with colors. • Graphical User Interface must be capable of displaying all in depth information in the X-Ray image. • Electronic image movement stabilization while scanning on non-flat surface. Supplier must demonstrate by tangible image explanation the stabilization.

	<ul style="list-style-type: none"> • Image processing capabilities such as digital removal of metal walls of containers to better inspect the contents, • Advanced material discrimination with the ability to overcome the material overlap effect in the region of interest and show more accurate material discrimination of hidden objects.
R.5. X Ray Detection Array	<ul style="list-style-type: none"> • The output signal obtained from the radiation detector element of x-ray inspection system must be digitized by a 24-bits minimum Analog / Digital converter.
R.6. Standards	<p>The standards used shall be:</p> <ul style="list-style-type: none"> • General Measurement: Metric • Radiation safety: ICRP 103 (updated ICRP 60) or equivalent • Electrical: Pakistan Electricity standards • Electrical and mechanical: EC or US standard or equivalent • Electromagnetic compatibility: EC or US standard or equivalent • All external mechanical parts to be protected to at least IP65 or equivalent. • The Bidder shall prove the conformity of the goods with all applicable EU or US standards, guidelines and directives or its equivalent. • The x-ray inspection system shall be in strict compliance with the most stringent international regulations such as ICRP-103, WHO, US and EC regulations or equivalent • Radioscopic performances: ANSI 42.26-2008. • National Health & Safety requirements [Pakistan Occupational Health and Safety Act 2018]. <p>The Bidder (if manufacturer) must have and present ISO 9001, ISO 14001, ISO 27001 and ISO 18001 in the area of manufacturing and providing X-Ray inspection systems. In the case of a bidder offering to supply equipment that the bidder did not itself manufacture or otherwise produce, the bidder must present the said certificates of manufacturer of the equipment offered.</p> <p>The certificates must have been issued by a certified body that is an accredited member of the European Organization for Certification, or by an International Certification Forum.</p>

Optional Requirement:

[The Purchaser shall be at liberty to either procure it or not.]

S.1 Machine learning	<p>The Bidder shall include in his bids Machine Learning (ML) solutions that will allow the Purchaser to further enhance automatic and semi-automatic image analysis.</p> <p>The Bidder is advised to research WCO publications on this subject. In their Bid, the Bidder will describe any of the following ML-based techniques or tools:</p> <ul style="list-style-type: none"> • Image enhancement techniques • Object counting techniques • False 'EMPTY' declaration • Container weight estimation
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	<ul style="list-style-type: none">• Contraband recognition• Automated categorization (HS) techniques <p>The Bidder shall fully describe the toolsets used, the machine training requirements and any other assumption.</p>
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4. Drawings

KICT – Karachi International Container Terminal
1. Site Documentation and Assessment

KICT Site Plan



Location Plan



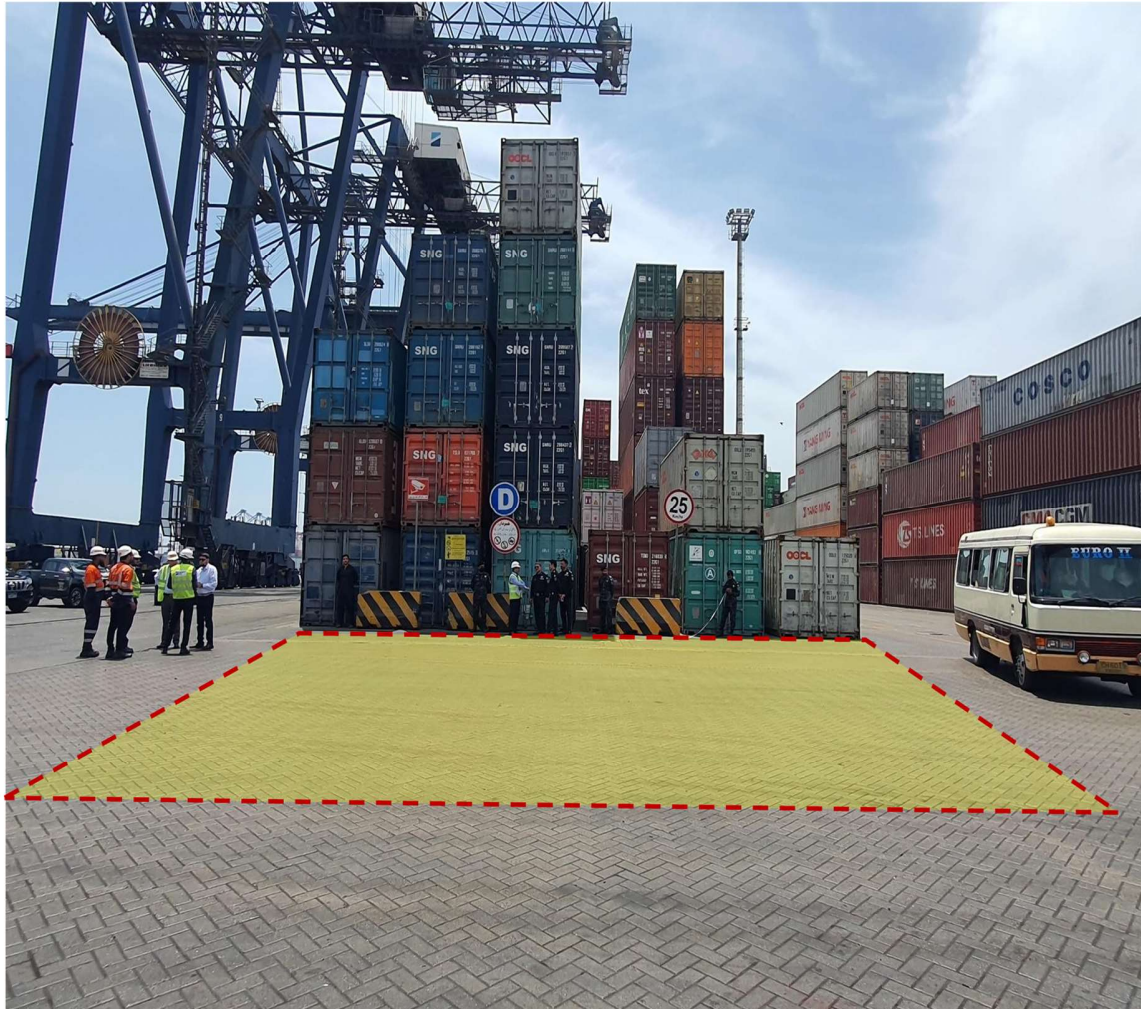
Tentative Site for Scanner





Location Plan



Tentative Site for scanner



KGTL – Pakistan International Container Terminal

1. Site Documentation and Assessment

KGTL Site Plan



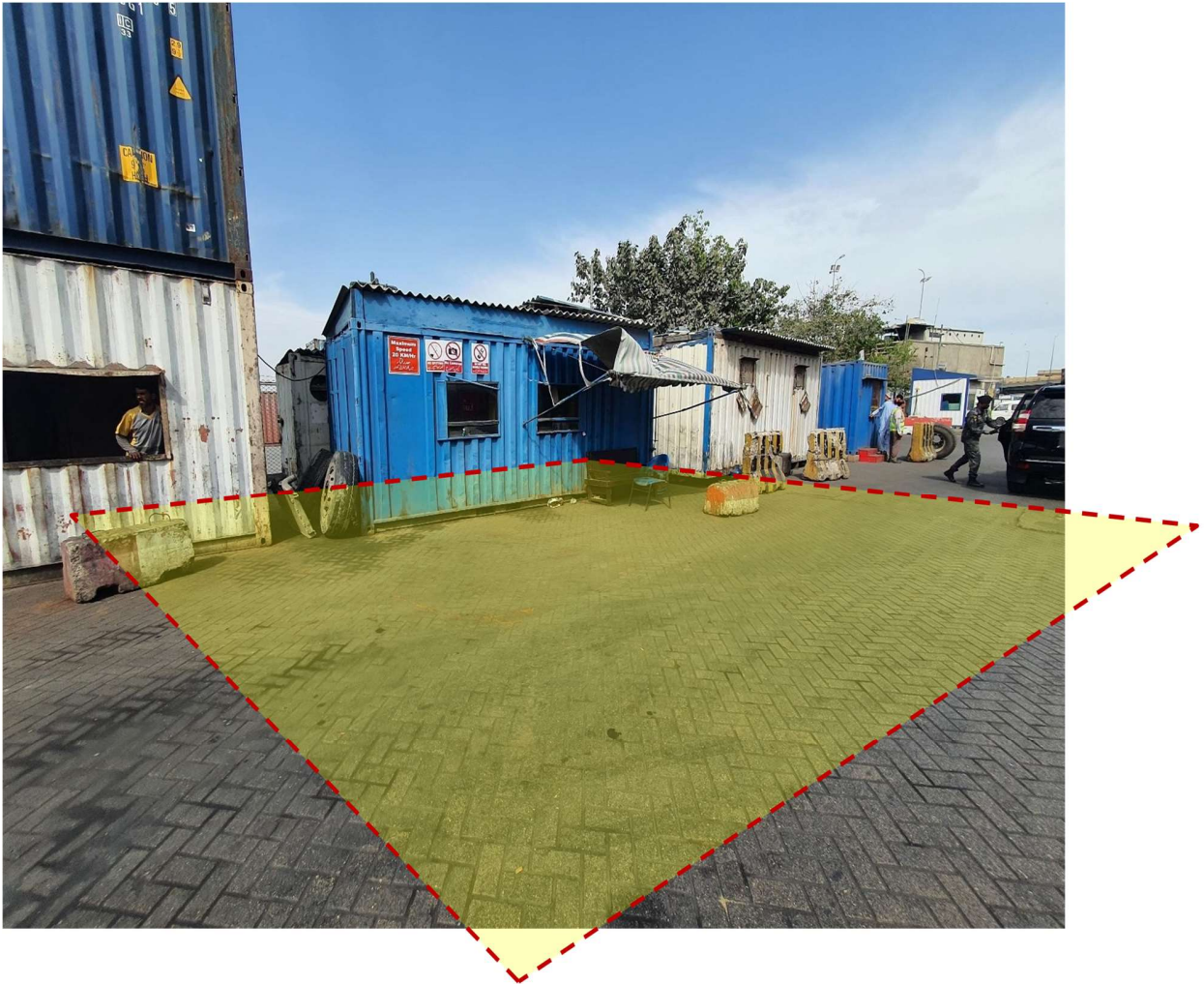
Location Plan

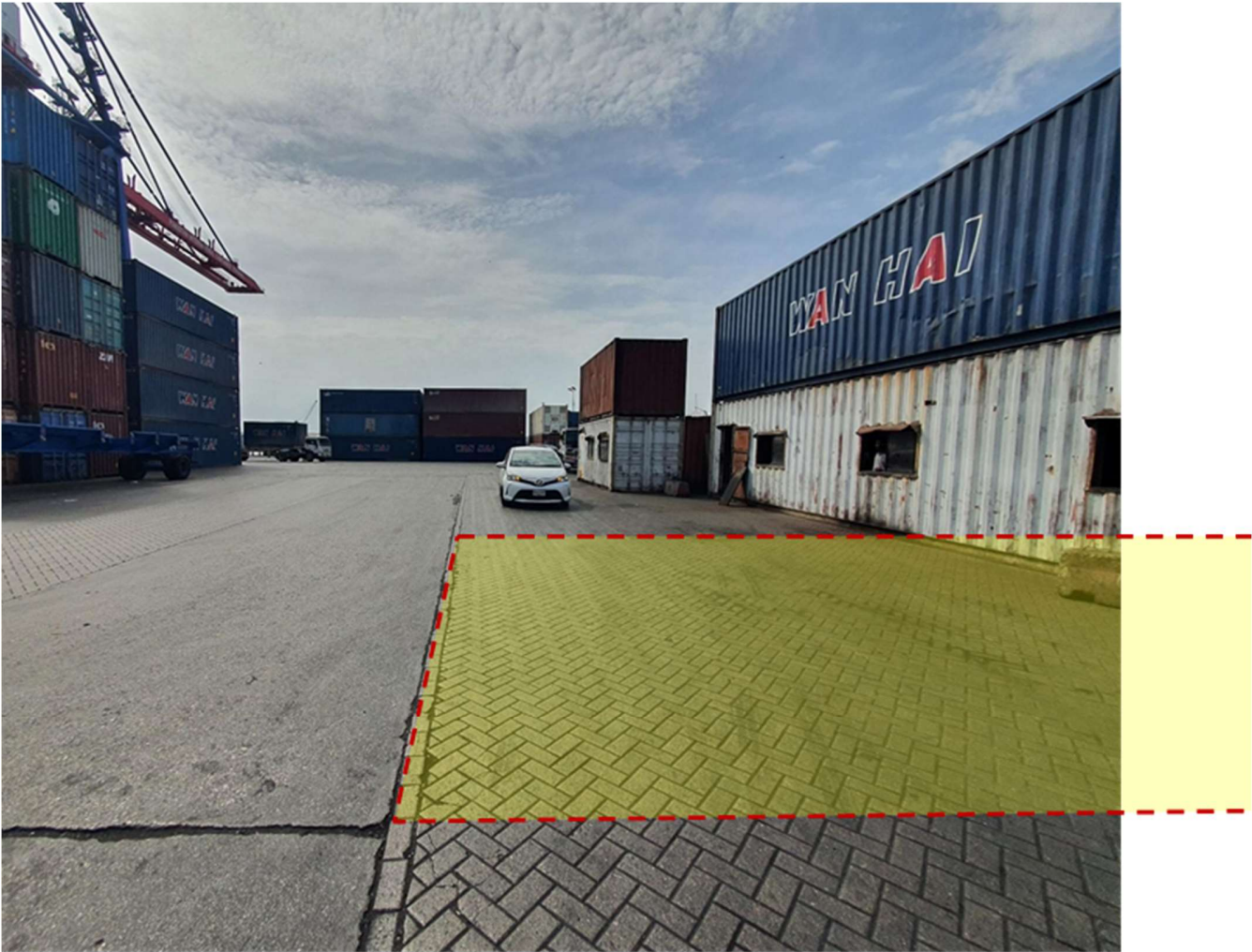


Tentative Site Plan



Tentative Site for Scanner

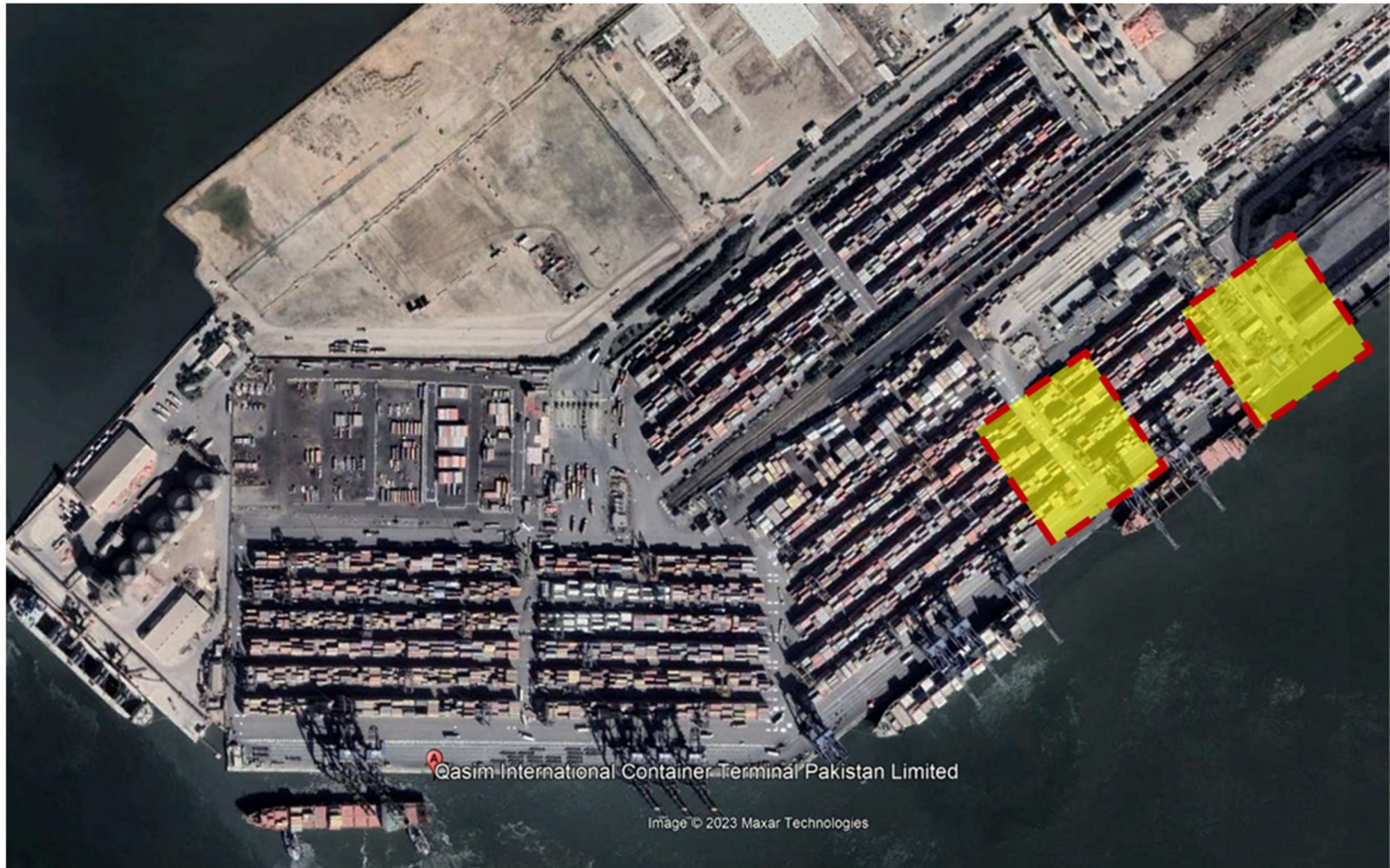




QICT – Qasim International Container Terminal

1. Site Documentation and Assessment

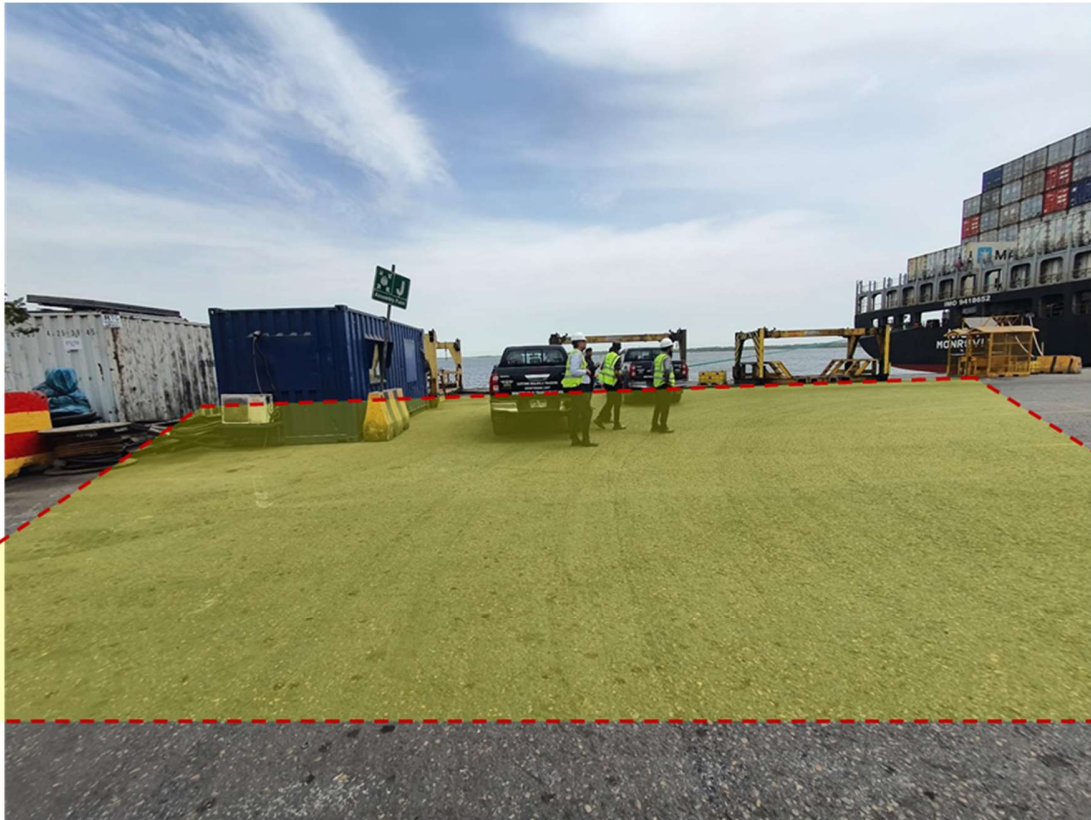
QICT Site Plan

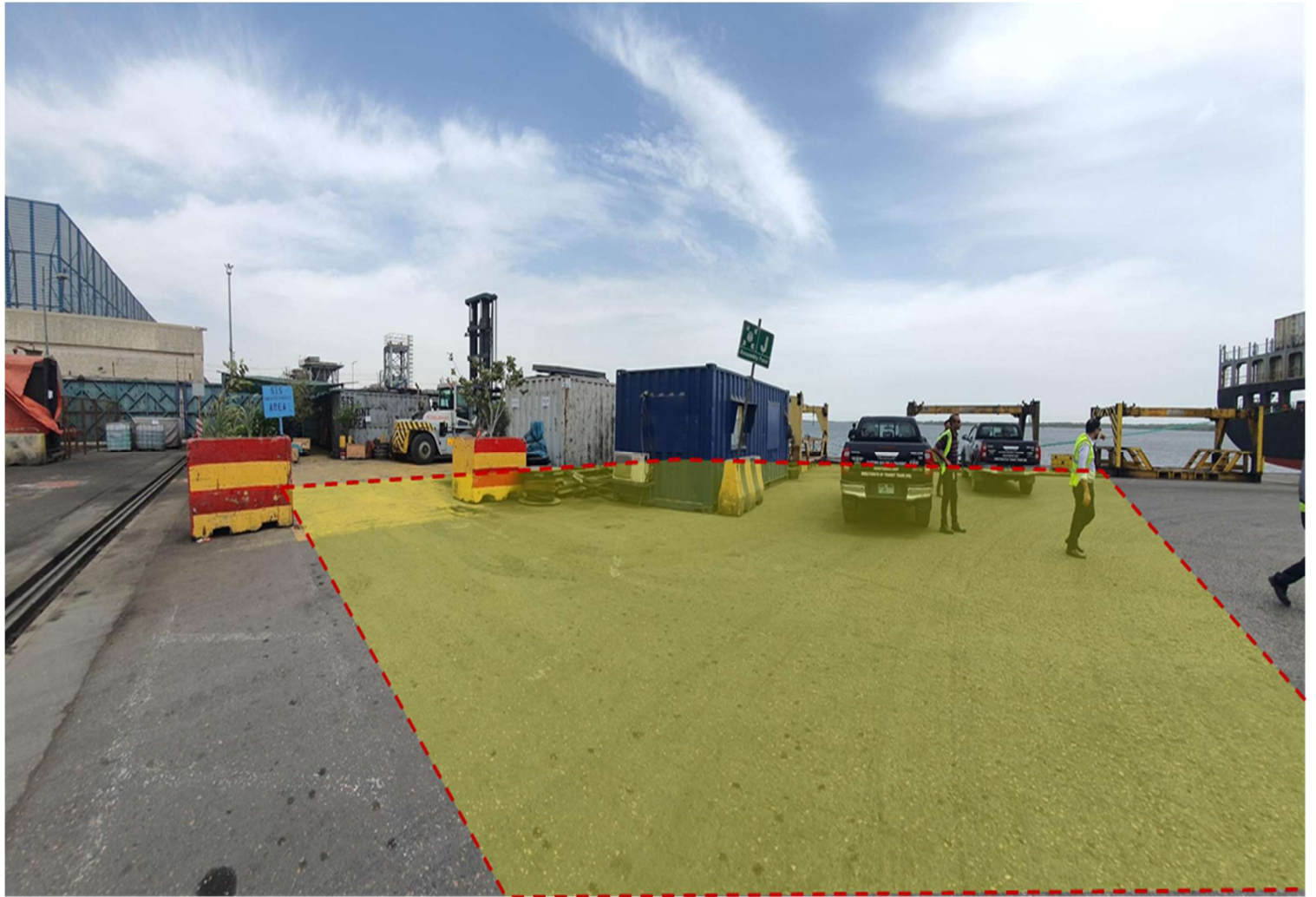


Location Plan

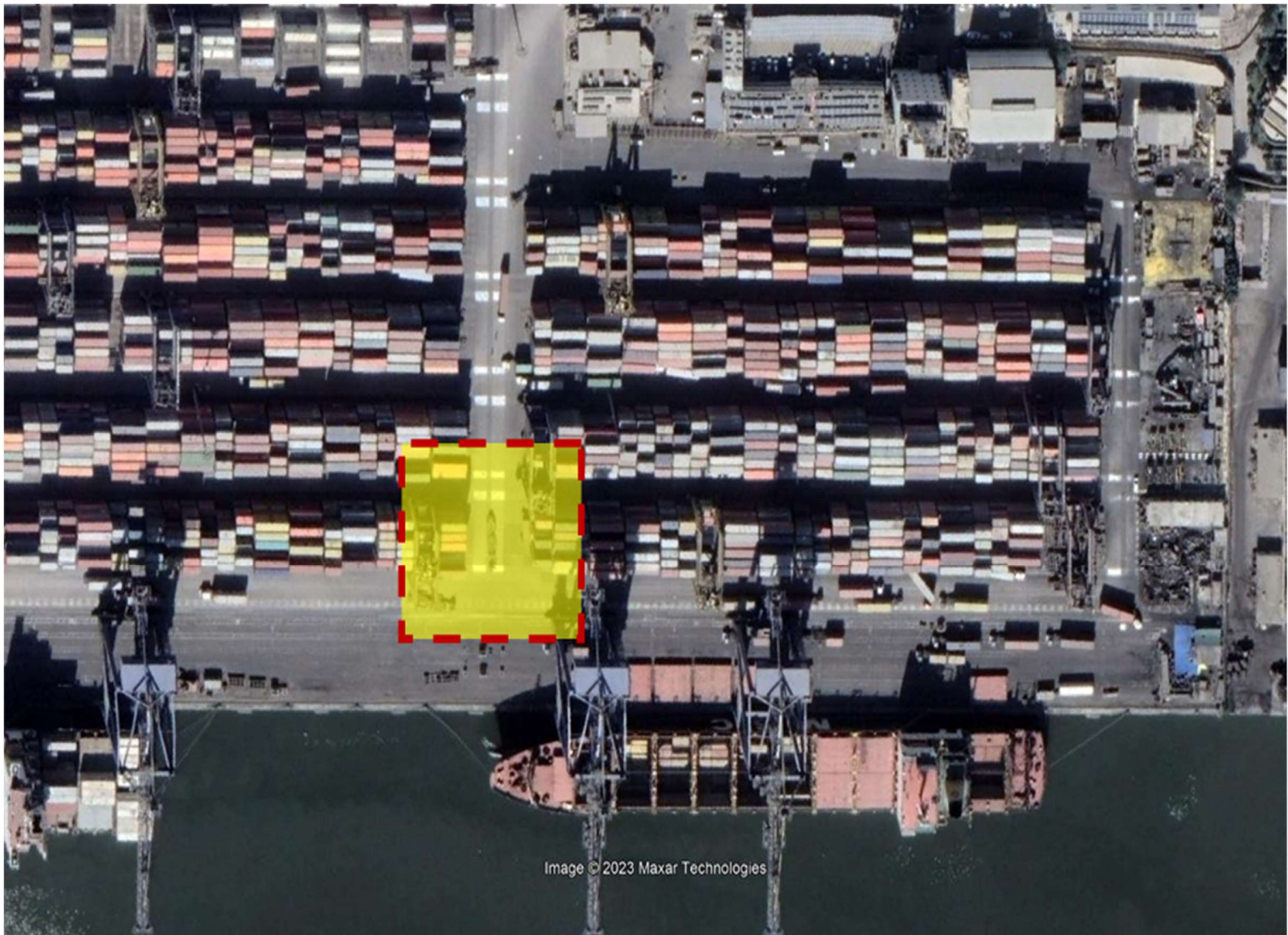


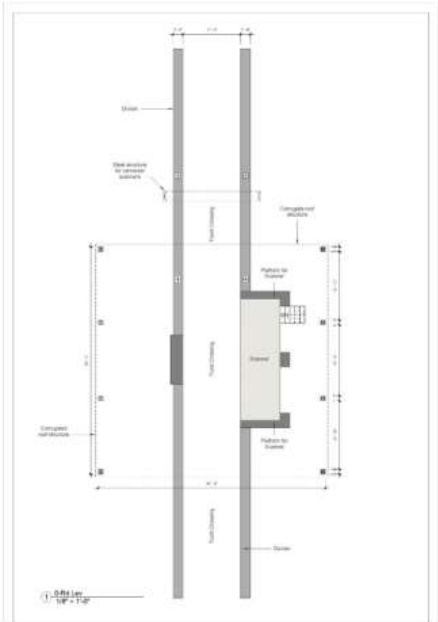
Tentative Site for Scanner



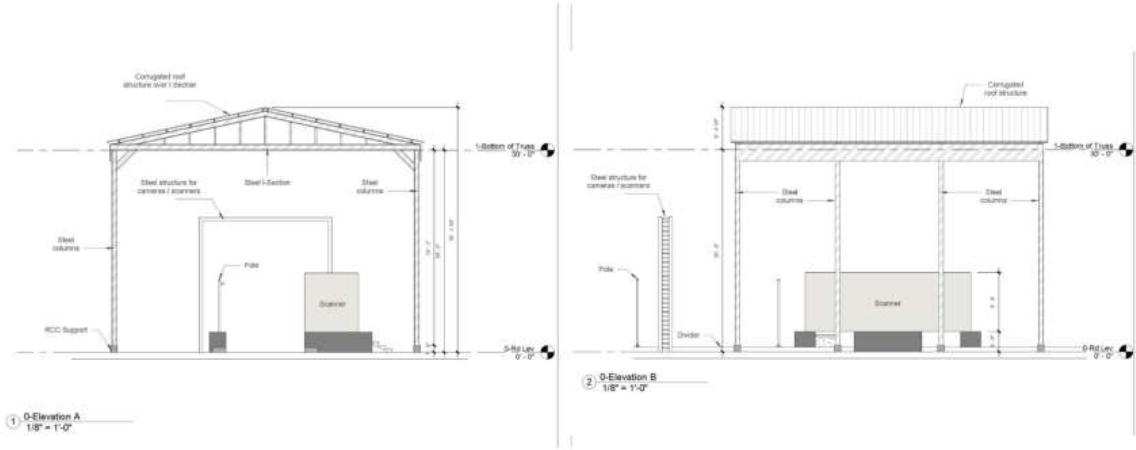


Tentative Location

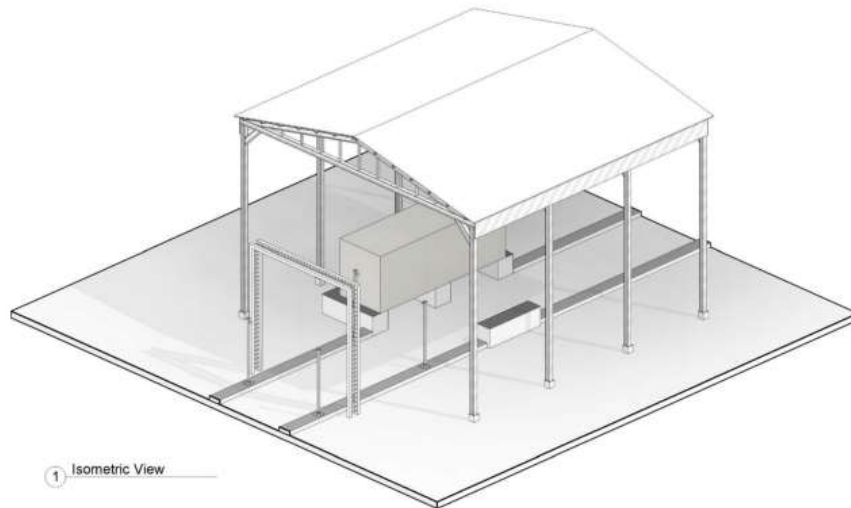




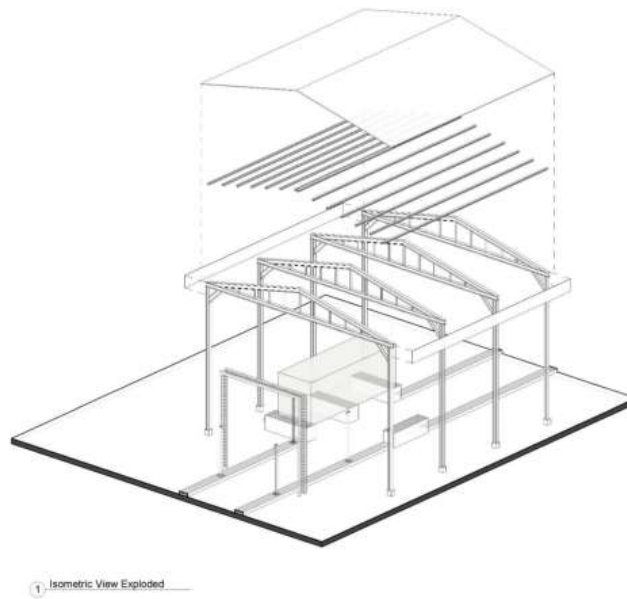
As-built drawings



As-built drawings



As-built drawings



As-built drawings

PART 3 – Contract

Section VIII - General Conditions of Contract

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Section VIII. General Conditions of Contract

1. Definitions

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

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

Contract has been accepted by the Purchaser and is named as such in the Contract Agreement.

- (o) “The Project Site,” where applicable, means the place **named in the SCC.**

2. Contract Documents

- 2.1 Subject to the order of precedence set forth in the Contract Agreement, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.

3. Fraud and Corruption

- 3.1 The Bank requires compliance with the Bank’s Anti-Corruption Guidelines and its prevailing sanctions policies and procedures as set forth in the WBG’s Sanctions Framework, as set forth in Appendix 1 to the GCC.
- 3.2 The Purchaser requires the Supplier to disclose any commissions or fees that may have been paid or are to be paid to agents or any other party with respect to the Bidding process or execution of the Contract. The information disclosed must include at least the name and address of the agent or other party, the amount and currency, and the purpose of the commission, gratuity or fee.

4. Interpretation

- 4.1 If the context so requires it, singular means plural and vice versa.
- 4.2 Incoterms
- (a) Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by Incoterms **specified in the SCC.**
- (b) The terms EXW, CIP, FCA, CFR and other similar terms, when used, shall be governed by the rules prescribed in the current edition of Incoterms **specified in the SCC** and published by the International Chamber of Commerce in Paris, France.
- 4.3 Entire Agreement
- The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of the parties with respect thereto made prior to the date of Contract.
- 4.4 Amendment
- No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of each party thereto.
- 4.5 Nonwaiver

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

4.6 Severability

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

5. Language

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

6. Joint Venture, Consortium or Association

- 6.1 If the Supplier is a joint venture, consortium, or association, all of the parties shall be jointly and severally liable to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one party to act as a leader with authority to bind the joint venture, consortium, or association. The composition or the constitution of the joint venture, consortium, or association shall not be altered without the prior consent of the Purchaser.

7. Eligibility

- 7.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 7.2 All Goods and Related Services to be supplied under the Contract and financed by the Bank shall have their origin in Eligible Countries. For the purpose of this Clause, origin means

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

8. Notices

- 8.1 Any notice given by one party to the other pursuant to the Contract shall be in writing to the address **specified in the SCC**. The term “in writing” means communicated in written form with proof of receipt.
- 8.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.

9. Governing Law

- 9.1 The Contract shall be governed by and interpreted in accordance with the laws of the Purchaser’s Country, unless otherwise **specified in the SCC**.
- 9.2 Throughout the execution of the Contract, the Supplier shall comply with the import of goods and services prohibitions in the Purchaser’s Country when:
- (a) as a matter of law or official regulations, the Borrower’s country prohibits commercial relations with that country; or
 - (b) by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower’s Country prohibits any import of goods from that country or any payments to any country, person, or entity in that country.

10. Settlement of Disputes

- 10.1 The Purchaser and the Supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
- 10.2 If, after twenty-eight (28) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the Purchaser or the Supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given. Any dispute or difference in respect of which a notice of intention to commence arbitration has been given in accordance with this Clause shall be finally settled by arbitration. Arbitration may be commenced prior to or after delivery of the Goods under the Contract. Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC**.
- 10.3 Notwithstanding any reference to arbitration herein,

- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
 - (b) the Purchaser shall pay the Supplier any monies due the Supplier.
- 11. Inspections and Audit by the Bank**
 - 11.1 The Supplier shall keep, and shall make all reasonable efforts to cause its Subcontractors and subconsultants to keep, accurate and systematic accounts and records in respect of the Goods in such form and details as will clearly identify relevant time changes and costs.
 - 11.2 Pursuant to paragraph 2.2 e. of Appendix 1 to the General Conditions the Supplier shall permit and shall cause its agents (where declared or not), subcontractors, subconsultants, service providers, suppliers, and personnel, to permit, the Bank and/or persons appointed by the Bank to inspect the site and/or the accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have such accounts, records and other documents audited by auditors appointed by the Bank. The Supplier's and its Subcontractors' and subconsultants' attention is drawn to Sub-Clause 3.1 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Bank's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of ineligibility pursuant to the Bank's prevailing sanctions procedures).
- 12. Scope of Supply**
 - 12.1 The Goods and Related Services to be supplied shall be as specified in the Schedule of Requirements.
- 13. Delivery and Documents**
 - 13.1 Subject to GCC Sub-Clause 33.1, the Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Schedule of Requirements. The details of shipping and other documents to be furnished by the Supplier are **specified in the SCC**.
- 14. Supplier's Responsibilities**
 - 14.1 The Supplier shall supply all the Goods and Related Services included in the Scope of Supply in accordance with GCC Clause 12, and the Delivery and Completion Schedule, as per GCC Clause 13.
 - 14.2 The Supplier, including its Subcontractors, shall not employ or engage forced labor or persons subject to trafficking, as described in GCC Sub-Clauses 14.3 and 14.4.
 - 14.3 Forced labor consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

- 14.4 Trafficking in persons is defined as the recruitment, transportation, transfer, harbouring or receipt of persons by means of the threat or use of force or other forms of coercion, abduction, fraud, deception, abuse of power, or of a position of vulnerability, or of the giving or receiving of payments or benefits to achieve the consent of a person having control over another person, for the purposes of exploitation.
- 14.5 The Supplier, including its Subcontractors, shall not employ or engage a child under the age of 14 unless the national law specifies a higher age (the minimum age).
- 14.6 The Supplier, including its Subcontractors, shall not employ or engage a child between the minimum age and the age of 18 in a manner that is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.
- 14.7 Work considered hazardous for children is work that, by its nature or the circumstances in which it is carried out, is likely to jeopardize the health, safety, or morals of children. Such work activities prohibited for children include work:
- (a) with exposure to physical, psychological or sexual abuse;
 - (b) underground, underwater, working at heights or in confined spaces;
 - (c) with dangerous machinery, equipment or tools, or involving handling or transport of heavy loads;
 - (d) in unhealthy environments exposing children to hazardous substances, agents, or processes, or to temperatures, noise or vibration damaging to health; or
 - (e) under difficult conditions such as work for long hours, during the night or in confinement on the premises of the employer.
- 14.8 The Supplier shall comply, and shall require its Subcontractors if any to comply, with all applicable health and safety regulations, laws, guidelines, and any other requirement stated in the Technical Specifications.
- 14.9 **Pursuant to the SCC**, the Supplier, including its Subcontractors/suppliers/ manufacturers shall take all technical and organizational measures necessary to protect the information technology systems and data used in connection with the Contract. Without limiting the foregoing, the Supplier, including its Subcontractors/suppliers/ manufacturers, shall use all reasonable efforts to establish, maintain, implement and comply with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach,

destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or data used in connection with the Contract.

- 14.10 The Supplier shall comply with additional obligations as **specified in the SCC**.

15. Contract Price

- 15.1 Prices charged by the Supplier for the Goods supplied and the Related Services performed under the Contract shall not vary from the prices quoted by the Supplier in its Bid, with the exception of any price adjustments **authorized in the SCC**.

16. Terms of Payment

- 16.1 The Contract Price, including any Advance Payments, if applicable, shall be paid as **specified in the SCC**.
- 16.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by invoices describing, as appropriate, the Goods delivered and Related Services performed, and by the documents submitted pursuant to GCC Clause 13 and upon fulfillment of all other obligations stipulated in the Contract.
- 16.3 Payments shall be made promptly by the Purchaser, but in no case later than sixty (60) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 16.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the Bid price is expressed.
- 16.5 In the event that the Purchaser fails to pay the Supplier any payment by its due date or within the period **set forth in the SCC**, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate **shown in the SCC**, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.

17. Taxes and Duties

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

18. Performance Security

- 18.1 If required as specified in the SCC, the Supplier shall, within twenty-eight (28) days of the notification of contract award, provide a performance security for the performance of the Contract in the amount **specified in the SCC**.
- 18.2 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 18.3 As specified in the SCC, the Performance Security, if required, shall be denominated in the currency (ies) of the Contract, or in a freely convertible currency acceptable to the Purchaser; and shall be in one of the format stipulated by the **Purchaser in the SCC**, or in another format acceptable to the Purchaser.
- 18.4 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than twenty-eight (28) days following the date of Completion of the Supplier's performance obligations under the Contract, including any warranty obligations, unless **specified otherwise in the SCC**.

19. Copyright

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

20. Confidential Information

- 20.1 The Purchaser and the Supplier shall keep confidential and shall not, without the written consent of the other party hereto, divulge to any third party any documents, data, or other information furnished directly or indirectly by the other party hereto in connection with the Contract, whether such information has been furnished prior to, during or following completion or termination of the Contract. Notwithstanding the above, the Supplier may furnish to its Subcontractor such documents, data, and other information it receives from the Purchaser to the extent required for the Subcontractor to perform its work under the Contract, in which event the Supplier shall obtain from such Subcontractor an undertaking of confidentiality similar to that imposed on the Supplier under GCC Clause 20.
- 20.2 The Purchaser shall not use such documents, data, and other information received from the Supplier for any purposes unrelated to the contract. Similarly, the Supplier shall not use such documents, data, and other information received from the Purchaser for any purpose other than the performance of the Contract.

- 20.3 The obligation of a party under GCC Sub-Clauses 20.1 and 20.2 above, however, shall not apply to information that:
- (a) the Purchaser or Supplier need to share with the Bank or other institutions participating in the financing of the Contract;
 - (b) now or hereafter enters the public domain through no fault of that party;
 - (c) can be proven to have been possessed by that party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other party; or
 - (d) otherwise lawfully becomes available to that party from a third party that has no obligation of confidentiality.
- 20.4 The above provisions of GCC Clause 20 shall not in any way modify any undertaking of confidentiality given by either of the parties hereto prior to the date of the Contract in respect of the Supply or any part thereof.
- 20.5 The provisions of GCC Clause 20 shall survive completion or termination, for whatever reason, of the Contract.

21. Subcontracting

- 21.1 The Supplier shall notify the Purchaser in writing of all subcontracts awarded under the Contract if not already specified in the Bid. Notification by the Supplier, for addition of any Subcontractor not named in the Contract, shall also include the Subcontractor's declaration in accordance with Appendix 2 to the GCC- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration. Such notification, in the original Bid or later shall not relieve the Supplier from any of its obligations, duties, responsibilities, or liability under the Contract.
- 21.2 Subcontracts shall comply with the provisions of GCC Clauses 3 and 7.

22. Specifications and Standards

- 22.1 Technical Specifications and Drawings
- (a) The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section VI, Schedule of Requirements and, when no applicable standard is mentioned, the standard shall be equivalent or superior to the official standards whose application is appropriate to the Goods' country of origin.
 - (b) The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.

- (c) Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Schedule of Requirements. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated in accordance with GCC Clause 33.

23. Packing and Documents

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

24. Insurance

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

25. Transportation and Incidental Services

- 25.1 Unless otherwise **specified in the SCC**, responsibility for arranging transportation of the Goods shall be in accordance with the specified Incoterms.
- 25.2 The Supplier may be required to provide any or all of the following services, including additional services, if any, **specified in SCC**:
 - (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
 - (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and

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

25.3 Prices charged by the Supplier for incidental services, if not included in the Contract Price for the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services

26. Inspections and Tests

26.1 The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are **specified in the SCC**.

26.2 The inspections and tests may be conducted on the premises of the Supplier or its Subcontractor, at point of delivery, and/or at the Goods' final destination, or in another place in the Purchaser's Country as **specified in the SCC**. Subject to GCC Sub-Clause 26.3, if conducted on the premises of the Supplier or its Subcontractor, all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the Purchaser.

26.3 The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in GCC Sub-Clause 26.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

26.4 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

26.5 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impedes the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.

26.6 The Supplier shall provide the Purchaser with a report of the results of any such test and/or inspection.

26.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the

specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice pursuant to GCC Sub-Clause 26.4.

- 26.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report pursuant to GCC Sub-Clause 26.6, shall release the Supplier from any warranties or other obligations under the Contract.

27. Liquidated Damages

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

28. Warranty

- 28.1 The Supplier warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- 28.2 Subject to GCC Sub-Clause 22.1(b), the Supplier further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 28.3 Unless otherwise **specified in the SCC**, the warranty shall remain valid for twelve (12) months after the Goods, or any portion thereof as the case may be, have been delivered to and accepted at the final destination **indicated in the SCC**, or for eighteen (18) months after the date of shipment from the port or place of loading in the country of origin, whichever period concludes earlier.
- 28.4 The Purchaser shall give notice to the Supplier stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect such defects.

- 28.5 Upon receipt of such notice, the Supplier shall, within the period **specified in the SCC**, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 28.6 If having been notified, the Supplier fails to remedy the defect within the period **specified in the SCC**, the Purchaser may proceed to take within a reasonable period such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract.

29. Patent Indemnity

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

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

- 29.2 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Sub-Clause 29.1, the Purchaser shall promptly give the Supplier a notice thereof, and the Supplier may at its own expense and in the Purchaser's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.
- 29.3 If the Supplier fails to notify the Purchaser within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Purchaser shall be free to conduct the same on its own behalf.
- 29.4 The Purchaser shall, at the Supplier's request, afford all available assistance to the Supplier in conducting such

proceedings or claim, and shall be reimbursed by the Supplier for all reasonable expenses incurred in so doing.

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

30. Limitation of Liability

- 30.1 Except in cases of criminal negligence or willful misconduct,
- (a) the Supplier shall not be liable to the Purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Supplier to pay liquidated damages to the Purchaser and
 - (b) the aggregate liability of the Supplier to the Purchaser, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the supplier to indemnify the Purchaser with respect to patent infringement

31. Change in Laws and Regulations

- 31.1 Unless otherwise specified in the Contract, if after the date of 28 days prior to date of Bid submission, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in the place of the Purchaser's Country where the Site is located (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract. Notwithstanding the foregoing, such additional or reduced cost shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with GCC Clause 15.

32. Force Majeure

- 32.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to

the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

32.2 For purposes of this Clause, "Force Majeure" means an event or situation beyond the control of the Supplier that is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of the Supplier. Such events may include, but not be limited to, acts of the Purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes.

32.3 If a Force Majeure situation arises, the Supplier shall promptly notify the Purchaser in writing of such condition and the cause thereof. Unless otherwise directed by the Purchaser in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

33. Change Orders and Contract Amendments

33.1 The Purchaser may at any time order the Supplier through notice in accordance GCC Clause 8, to make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs, or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the Purchaser;
- (b) the method of shipment or packing;
- (c) the place of delivery; and
- (d) the Related Services to be provided by the Supplier.

33.2 If any such change causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or in the Delivery/Completion Schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this Clause must be asserted within twenty-eight (28) days from the date of the Supplier's receipt of the Purchaser's change order.

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

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

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

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

- (a) accelerates the delivery period; or
- (b) reduces the Contract Price or the life cycle costs to the Purchaser; or
- (c) improves the quality, efficiency or sustainability of the Goods; or
- (d) yields any other benefits to the Purchaser,

without compromising the necessary functions of the Facilities.

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

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

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

34. Extensions of Time

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

Clause 26, unless an extension of time is agreed upon, pursuant to GCC Sub-Clause 34.1.

35. Termination

35.1 Termination for Default

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

35.2 Termination for Insolvency.

- (a) The Purchaser may at any time terminate the Contract by giving notice to the Supplier if the Supplier becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the Purchaser

35.3 Termination for Convenience.

- (a) The Purchaser, by notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Purchaser's convenience, the extent to which performance of the Supplier under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within twenty-eight (28) days after the Supplier's receipt of notice of termination shall be accepted by the Purchaser

at the Contract terms and prices. For the remaining Goods, the Purchaser may elect:

- (i) to have any portion completed and delivered at the Contract terms and prices; and/or
- (ii) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and Related Services and for materials and parts previously procured by the Supplier.

36. Assignment

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

**37. Export
Restriction**

- 37.1 Notwithstanding any obligation under the Contract to complete all export formalities, any export restrictions attributable to the Purchaser, to the country of the Purchaser, or to the use of the products/goods, systems or services to be supplied, which arise from trade regulations from a country supplying those products/goods, systems or services, and which substantially impede the Supplier from meeting its obligations under the Contract, shall release the Supplier from the obligation to provide deliveries or services, always provided, however, that the Supplier can demonstrate to the satisfaction of the Purchaser and of the Bank that it has completed all formalities in a timely manner, including applying for permits, authorizations and licenses necessary for the export of the products/goods, systems or services under the terms of the Contract. Termination of the Contract on this basis shall be for the Purchaser's convenience pursuant to Sub-Clause 35.3.

APPENDIX 1

(Text in this Appendix shall not be modified)

Fraud and Corruption

1. Purpose

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

2. Requirements

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

2.2 To this end, the Bank:

- a. Defines, for the purposes of this provision, the terms set forth below as follows:
 - i. "corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii. "fraudulent practice" is any act or omission, including misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii. "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - iv. "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - v. "obstructive practice" is:
 - (a) deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - (b) acts intended to materially impede the exercise of the Bank's inspection and audit rights provided for under paragraph 2.2 e. below.
- b. Rejects a proposal for award if the Bank determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or

indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;

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

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

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

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

APPENDIX 2

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

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

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

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

Contract reference *[insert contract reference]*

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

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

Name of the Subcontractor _____

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

Title of the person signing on behalf of the Subcontractor _____

Signature of the person named above _____

Date signed _____ day of _____, _____

Countersignature of authorized representative of the Supplier:

Signature: _____

Date signed _____ day of _____, _____

Section IX - Special Conditions of Contract

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

GCC 1.1(i)	The Purchaser's Country is: Islamic Republic of Pakistan
GCC 1.1(j)	The Purchaser is: Federal Board of Revenue, Government of Pakistan
GCC 1.1 (o)	The Project Sites/Final Destinations are as follows: Karachi Port, Napier Mole Road, East Wharf, Karachi, Karachi City, Sindh Pakistan
GCC 1.1 (p)	<p>The term SEA/SH where used in the Contract has the following meaning:</p> <ul style="list-style-type: none"> • “Sexual Exploitation and Abuse” “(SEA)” means the following: Sexual Exploitation is defined as any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another. Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions. • “Sexual Harassment” “(SH)” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by supplier's personnel with other supplier's, or purchaser's personnel.
GCC 4.2 (a)	The meaning of the trade terms shall be as prescribed by Incoterms.
GCC 4.2 (b)	The version edition of Incoterms shall be Incoterms 2020
GCC 5.1	The language shall be: English

GCC 8.1	<p>For <u>notices</u>, the Purchaser's address shall be:</p> <p style="text-align: center;">MUHAMMAD KHALID JAMIL DIRECTOR (PROGRAM OFFICE), PAKISTAN RAISES REVENUE PROJECT, Room No. 574, 5th Floor, Federal Board of Revenue, FBR House, Constitutional Avenue, Sector G - 5/2, Postal Code: 44000 Islamabad, Pakistan. (Off): +92 (51) 9219649 Fax No. +92 (51) 9202673 Email: director.prr@fbr.gov.pk</p>
GCC 9.1	The governing law shall be the laws of: Islamic Republic of Pakistan
GCC 10.2	<p>The formal mechanism for the resolution of disputes shall be:</p> <p>For a contract with a Foreign Supplier:</p> <p>In case of any dispute, controversy or claim arising out of or relating to this Contract, or breach, termination or invalidity thereof, shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.</p> <p>Place of arbitration: UAE.</p> <p>For a contract with a Local Supplier:</p> <p>In the case of a dispute between the Purchaser and a Supplier who is a national of the Purchaser's country, the dispute shall be referred to adjudication or arbitration in accordance with Pakistan Arbitration Act 1940.</p> <p>Place of arbitration: Islamabad.</p>
GCC 13.1	<p>Details of shipping and documents to be furnished by the Supplier shall be:</p> <p>For the products supplied from abroad as per Incoterms CIP:</p> <ul style="list-style-type: none"> a) <i>Non-negotiable documents i.e., Supplier's invoice showing Goods' description, quantity, unit price and total amount; packing list, bill of lading, and certificate of origin etc. must be sent through courier service or mailed or faxed within 8 working days after shipment.</i> b) <i>Copy of the Insurance Certificate showing Federal Board of Revenue as the beneficiary.</i> c) <i>Detailed description of material / equipment, item / accessories, no. of boxes, weight, dimension and volume of each box must be</i>

shown in the packing list alongwith following details with shipping marks on each Box, crate and on container(s).

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Federal Board of Revenue,
Islamabad, Pakistan

- d) One Original of the Manufacturer's or Supplier's Warranty Certificate covering all items supplied.**
- e) All cargos shall be accompanied with a copy of packing list and invoice in the following manner:**
 - i) If shipment containerized FCL cargo then the documents shall be placed on the inner side of the door of container. In case of multiple containers in a consignment, each container shall have such documents pertaining to goods inside it.**
 - ii) If shipment is consolidated cargo and LCL cargo: the documents shall be attached to the goods or package at an obvious place.**

Purchaser shall invariably require the following copies of the documents:

- a) Through bankers in Karachi;**
 - 4 copies of Invoices
 - 4 copies of Bill of Lading including original
 - 4 copies of detailed packing list
 - 2 copies of Certificate of Origin
 - 2 copies of test certificate
 - 2 copies of conformity certificate
- b) Immediately after shipment is effected;**
 - 6 copies of Invoices
 - 6 copies of Bill of Lading (Non-negotiable)
 - 2 copies of detailed Packing List
 - 1 copy of Certificate of Origin

In case of sea Shipment Non-negotiable documents must be courier/faxed through our fax No +92(51)9202673 or e-mailed at director.prr@fbr.gov.pk to reach the Purchaser within 8 working days after shipment. In case of any port demurrage charges incurred due to late receipt of documents the same will be recoverable from supplier.

- c) Invoices shall indicate itemized values of the materials concerned.**
- d) Invoices shall include certification that the prices charged are net and that the material concerned are new and unused. Invoices shall further certify that the materials have been supplied strictly in accordance with the order placed by us.**

	<p>For the products to be supplied within the Purchaser's country as per Incoterm EXW:</p> <p>Upon delivery of the products to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:</p> <ul style="list-style-type: none"> (a) 03 copies of the Supplier's invoice showing the description of the products, quantity, unit price, and total amount; (b) Delivery Note, Railway Receipt, or Truck Receipt; (c) Manufacturer's or Supplier's Warranty Certificate; (d) Inspection Certificate issued by the nominated inspection agency, and the Supplier's Factory Inspection Report; and (e) Certificate of Origin. <p>The Purchaser shall receive the above documents before the arrival of the products and, if not received, the Supplier will be responsible for any consequent expenses.</p>
GCC 14.9	Cyber Security "applies".
GCC 14.10	Not Applicable
GCC 15.1	The prices charged for the Goods supplied and the related Services performed " shall not " be adjustable.
GCC 16.1	<p>GCC 16.1—The method and conditions of payment to be made to the Supplier under this Contract shall be as follows:</p> <p>Payment for Goods supplied from abroad:</p> <p>Payment of foreign currency portion shall be made in [currency of the Contract Price] in the following manner:</p> <p>(a) Advance Payment: 10% of the Contract Price within sixty (60) days of signing of the Contract and upon submission of claim and a bank guarantee [as per the form specified in Section X (Contract Forms)] 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.</p> <p>(b) On Shipment: The Purchaser shall pay the Supplier 80% of the Contract Price of the products shipped through irrevocable confirmed letter of credit opened in favor of the Supplier in a bank in its country, upon submission of documents specified in SCC Clause 13, within sixty (60) days.</p> <p>(c) On Acceptance: 10% of the Contract Price of the products received shall be paid within sixty (60) days of Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training, and Installation Certificate as specified in Para. 5.8 of Technical Specifications & Requirements, issued by the Purchaser, upon submission of a claim.</p>

	<p>Payment of local currency portion shall be made in Pak. Rs. within thirty (30) days of presentation of claim supported by a certificate from the Purchaser declaring that the Goods have been delivered and that all other contracted Services have been performed.</p> <p>Payment for Goods and Services supplied from within the Purchaser's Country:</p> <p>Payment for Goods and Services supplied from within the Purchaser's Country shall be made in Pak. Rs., as follows:</p> <p>(a) Advance Payment: 10% of the Contract Price within sixty (60) days of signing of the Contract and upon submission of claim and a bank guarantee [as per the form specified in Section X (Contract Forms)] 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.</p> <p>(b) On Delivery: The Purchaser shall pay the Supplier 80% of the Contract Price of the products on receipt of the Goods and physical inspection confirming their acceptance, upon submission of documents specified in SCC Clause 13, within sixty (60) days.</p> <p>(c) On Acceptance: 10% of the Contract Price of the products received shall be paid within sixty (60) days of Supply, installation including civil, mechanical, electrical & networking works, commissioning, integration, training, and Installation Certificate as specified in Para. 5.8 of Technical Specifications & Requirements, issued by the Purchaser, upon submission of a claim.</p>
GCC 16.5	<p>The payment-delay period after which the Purchaser shall pay interest to the supplier shall be ninety (90) days.</p> <p>The interest rates that shall be applied are:</p> <ul style="list-style-type: none"> • 1%+SOFR for Foreign Currency, and • 1%+KIBOR for Local Currency [Pak. Rs.]
GCC 18.1	<p>A Performance Security “shall” be required.</p> <p>The amount of the Performance Security shall be: 10% of the total Contract Cost.</p>
GCC 18.3	<p>The form of acceptable Performance Security shall be a Form included in Section X, Contract Forms, issued by a Scheduled Bank.</p> <p>The Performance Security shall be denominated in the currency of the contract.</p>

GCC 18.4	Discharge of the Performance Security shall take place: Pursuant to GCC Sub-Clause 18.4, after delivery, installation, commissioning, integration, training and acceptance of the Goods, the performance security shall be reduced to five percent (5%) of the Contract to cover the Supplier's warranty obligations in accordance with GCC Clause 28.3
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GCC 23.2	<p>The packing, marking, and documentation within and outside the packages shall be:</p> <ol style="list-style-type: none"> 1) Crates or boxes should have a list of items contained therein, secured to the exterior. A duplicate list should also be included inside with the contents. 2) Shipping Specifications must clearly indicate the contents, gross weight, net weight and measurements of each package. 3) All goods should bear an identification mark of serial number or other marking by which that particular article can be identified in the event of packages being landed damaged. Please show these clearly on your invoice and shipping specifications. 4) In addition to the shipping marks; Purchaser's Name, Goods Purchase Order No., Description of item, gross weight (kg), Measurement (Length x Width x Height in mm), and country or origin must be stenciled on the outside of each package to facilitate identification, as given hereunder. <table border="1" data-bbox="486 985 1396 1384"> <tr> <td data-bbox="486 985 938 1149"> Purchaser's Name: Federal Board of Revenue, Pakistan. Contract Number: </td><td data-bbox="954 985 1396 1149"> Dimensions ----- x ----- x ---- ---- (Length) x (Width) x (Height) (in Centimeters / Meters as appropriate) </td></tr> <tr> <td data-bbox="486 1149 938 1216"> Purchase Order No./ Consignee Code: </td><td data-bbox="954 1149 1396 1216"> Volume: Cubic Metres </td></tr> <tr> <td data-bbox="486 1216 938 1384"> Box: ----- of ----- </td><td data-bbox="954 1216 1396 1384"> Weight: Gross: ----- kgs Tare: ----- kgs Nett: ----- kgs </td></tr> </table> <ol style="list-style-type: none"> 5) In case of shipping marks becoming illegible all packages, where possible, provide a label inside bearing a clear impression of the external marks. 6) Packages must be conspicuously marked with "Fragile", "Handle with Care", "Right Side Up", "Keep Dry", etc., in English and with the appropriate international standard symbols, to prevent possible damage. 7) the Supplier must ensure that the centre of gravity and hoisting position/certified lifting points are clearly marked on two sides of each case so as to facilitate loading, unloading and handling. 8) The above-mentioned markings must be indicated on those Goods which would without packing; with metal labels secured to the 	Purchaser's Name: Federal Board of Revenue, Pakistan. Contract Number:	Dimensions ----- x ----- x ---- ---- (Length) x (Width) x (Height) (in Centimeters / Meters as appropriate)	Purchase Order No./ Consignee Code:	Volume: Cubic Metres	Box: ----- of -----	Weight: Gross: ----- kgs Tare: ----- kgs Nett: ----- kgs
Purchaser's Name: Federal Board of Revenue, Pakistan. Contract Number:	Dimensions ----- x ----- x ---- ---- (Length) x (Width) x (Height) (in Centimeters / Meters as appropriate)						
Purchase Order No./ Consignee Code:	Volume: Cubic Metres						
Box: ----- of -----	Weight: Gross: ----- kgs Tare: ----- kgs Nett: ----- kgs						

	<p>Goods, or with indelible paint on both sides or both ends of the Goods.</p> <p>9) All instruments, protection relays or other fragile parts must be removed, placed in sealed plastic bags and packed in expanded polystyrene or similar shock absorbing material in timber boxes. All fragile components must be securely supported to prevent damage in transit and must be packed in separate crates and not with heavy items.</p> <p>10) All material, if scheduled to be shipped via ocean freight must be export packed to withstand the imperils associated with handling at ocean terminals and exposure to the elements during the ocean and inland transportation to the Project site. In addition, the products must be transported under deck.</p> <p>11) Waterproof case liners should be used protecting goods' damage from moisture.</p> <p>12) Special attention must be given to fragile items by pre-packing in foam, plastic cushioning or some equally efficient cushioning material. Shredded newsprint, popcorn, straw, or new or used rubber tyres should not be used.</p> <p>13) All marks, tags and labels shall be in the English language.</p>
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	<p>Incidental services to be provided are as follows whose details are given in the Schedule of Requirements:</p> <ul style="list-style-type: none"> (i) Product Upgrades (ii) Operation & Maintenance (iii) Documentation (iv) Training (v) Testing & Commissioning

GCC 26.1	<p>The inspections and tests shall be:</p> <p>Factory (Origin) and at final site before & after startup (FAT/SAT), in accordance with the provisions of the Technical Specifications and the respective clause viz. “Factory Inspection”, mentioned under Section VII – Schedule of Requirements. The schedule shall be as follows:</p> <table><tr><th>Goods & Services</th><th>Type of Test</th><th>Time or Milestone</th></tr><tr><td>Scanners</td><td>Physical Inspection</td><td>At Delivery (120 Days)</td></tr><tr><td>Installation including civil, mechanical, electrical & networking works, commissioning, integration, training</td><td>Physical Inspection</td><td>At Delivery (90 Days)</td></tr></table> <p>FBR shall bear the costs of the participation of its own four (04) representatives/staff for the factory inspections and tests.</p>	Goods & Services	Type of Test	Time or Milestone	Scanners	Physical Inspection	At Delivery (120 Days)	Installation including civil, mechanical, electrical & networking works, commissioning, integration, training	Physical Inspection	At Delivery (90 Days)
Goods & Services	Type of Test	Time or Milestone								
Scanners	Physical Inspection	At Delivery (120 Days)								
Installation including civil, mechanical, electrical & networking works, commissioning, integration, training	Physical Inspection	At Delivery (90 Days)								
GCC 26.2	<p>The on-site inspections and tests shall be conducted at:</p> <p style="text-align: center;">Karachi Port, Napier Mole Road, East Wharf, Karachi, Karachi City, Sindh Pakistan</p>									
GCC 27.1	<p>The applicable rate for liquidated damages for delay shall be: 1 % of the Contract Price for each week or part thereof</p>									
GCC 27.1	<p>The maximum amount of liquidated damages shall be: Not exceeding 10% of the Contract Amount.</p>									
GCC 28.3	<p>GCC 28.3—In partial modification of the provisions, the warranty period shall be <u>Three (03) years comprehensive warranty covering all preventative and corrective actions, including all related costs, such as, but not limited to workmanship, spare parts, repair work, transportation, customs duties and taxes, clearance costs of spare parts etc.</u>, from date of acceptance of the Goods.</p> <p>For purposes of the Warranty, the places of final destinations shall be:</p> <p style="text-align: center;">Karachi Port, Napier Mole Road, East Wharf, Karachi, Karachi City, Sindh Pakistan</p>									

GCC 28.5 & 28.6	<p>The Supplier shall correct any defects covered by the Warranty as per the following timelines being notified by the Purchaser of the occurrence of such defects.</p> <p>Response Time: within 02 hours</p> <p>Resolution Time: within 10 hours</p> <p>The response and resolution times: 24 X 7 X 365 during the warranty.</p>
GCC 33.4	Not Applicable

Section X - Contract Forms

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Notification of Intention to Award

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]*

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

Notification of Intention to Award

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

Project: *[insert name of project]*

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

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

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

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

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

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

1. The successful Bidder

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

2. Other Bidders

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

[insert name]	[insert Technical score]	[insert Bid price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Bid price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Bid price]	[insert evaluated cost]	[insert combined score]
[insert name]	[insert Technical score]	[insert Bid price]	[insert evaluated cost]	[insert combined score]

3. Reason/s why your Bid was unsuccessful.

4. How to request a debriefing

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

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

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

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

Title/position: [insert title/position]

Agency: [insert name of Purchaser]

Email address: [insert email address]

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

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

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

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

5. How to make a complaint

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

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

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

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

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

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

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

Further information:

For more information see the [Procurement Regulations for IPF Borrowers \(Procurement Regulations\)](#) (Annex III). You should read these provisions before preparing and submitting your complaint. In addition, the World Bank's Guidance "[How to make a Procurement-related Complaint](#)" provides a useful explanation of the process, as well as a sample letter of complaint.

In summary, there are four essential requirements:

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

6. Standstill Period

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

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

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

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

On behalf of the Purchaser:

Signature: _____

Name: _____

Title/position: _____

Telephone: _____

Email: _____

Beneficial Ownership Disclosure Form

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

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful 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)
<i>[include full name (last, middle, first), nationality, country of residence]</i>			

OR

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

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

OR

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

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

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

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

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

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

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

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

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

Letter of Acceptance

[letterhead paper of the Purchaser]

[date]

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

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

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

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

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

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

BETWEEN

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

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

The Purchaser and the Supplier agree as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Contract documents referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement. This Agreement shall prevail over all other contract documents.
 - (a) the Letter of Acceptance
 - (b) Letter of Bid - Technical Part
 - (c) Letter of Bid - Financial Part
 - (d) the Addenda Nos. _____ (if any)
 - (e) Special Conditions of Contract
 - (f) General Conditions of Contract
 - (g) the Specification (including Schedule of Requirements and Technical Specifications)
 - (h) the completed Schedules (including Price Schedules)
 - (i) any other document listed in GCC as forming part of the Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as specified in this Agreement, the Supplier hereby covenants with the Purchaser to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or

such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

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

For and on behalf of the Purchaser:

Signed: *[insert signature]*

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

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

For and on behalf of the Supplier:

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

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

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

Performance Security

(Bank Guarantee)

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

[Guarantor letterhead or SWIFT identifier code]

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

Date: *[Insert date of issue]*

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

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

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

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

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

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

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

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

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.

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."

Advance Payment Security Demand Guarantee

[Guarantor letterhead or SWIFT identifier code]

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

Date: *[Insert date of issue]*

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

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

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

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

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

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

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]*.

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.*

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

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

[signature(s)]

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