

# **Request for Bids Information Systems**

**Design, Supply and Installation**

**Procurement of Artificial Intelligence and  
Machine Learning (AI&ML) System**

**(One-Envelope Bidding Process)  
(Without Prequalification)**

## Specific Procurement Notice – Request for Bids without Prequalification

# Request for Bid Information Systems (Design, Supply and Installation) (Without Prequalification)

<b>Purchaser:</b>	<b>The State Revenue Committee of the Republic of Armenia and the Office of the Prime Minister of the Republic of Armenia</b>
<b>Project:</b>	<b>Fourth Public Sector Modernization Project (PSMP4)</b>
<b>Contract title:</b>	<b>Procurement of an Artificial Intelligence and Machine Learning (AI&amp;ML) System</b>
<b>Country:</b>	<b>Republic of Armenia</b>
<b>Loan No.:</b>	<b>9338-AM</b>
<b>RFB No:</b>	<b>PSMP4-GO-RFB-3.3</b>
<b>Issued on:</b>	<b>August 04, 2023</b>

1. The Republic of Armenia has received financing from the World Bank toward the cost of the Fourth Public Sector Modernization Project (PSMP4), and intends to apply part of the proceeds toward payments under the contract for the **Procurement of an Artificial Intelligence and Machine Learning (AI&ML) System**.
2. The Office of the Prime Minister of the Republic of Armenia now invites sealed Bids from eligible Bidders for supply/development, installation, customization, testing and technical support the **Artificial Intelligence and Machine Learning (AI&ML)**. The purpose of the new AI&ML system implementation is to introduce modern methods for data analysis. Taking into account the very large amount of data currently stored in State Revenue Committee (SRC) databases since 2008, it is extremely important to introduce modern methods for data analysis to identify and mitigate risk in existing records and among taxpayers. AI&ML is required to analyze existing information.
3. Bidding will be conducted through international competitive procurement using Request for Bids (RFB) as specified in the World Bank's "Procurement Regulations for IPF Borrowers" dated November 2020 ("Procurement Regulations"), and is open to all eligible Bidders as defined in the Procurement Regulations.
4. Interested eligible Bidders may obtain further information from the Office of the Prime-Minister of RA and inspect the bidding documents at the address given below from 09.00 to 18.00 of Yerevan time.
5. A complete set of bidding documents (the hard and/or the soft version) in English may be obtained by interested eligible bidders upon the submission of a written application to the address below. In addition to the hard copies the document will be sent by e-mail

upon request. The bidding documents may be downloaded (on a free of charge basis) also from [www.gnumner.am](http://www.gnumner.am) website

([https://gnumner.minfin.am/hy/page/bac\\_mrcuyti\\_haytararutyun\\_ev\\_hraver/](https://gnumner.minfin.am/hy/page/bac_mrcuyti_haytararutyun_ev_hraver/)).

Moreover, the Office of the Prime Minister of RA shall not be liable for the fault or incomplete downloading from the website, or further in case of missing the Addenda to the Bidding Document. In any case, if there is a discrepancy between a hard copy and electronic, the hard copy will prevail.

6. Bids must be delivered to the address below on or before **September 19, 2023, at 15:00 (local time)**. Electronic Bidding **will not** be permitted. Late Bids will be rejected. Bids will be publicly opened in the presence of the Bidders' designated representatives and anyone who chooses to attend at the address below on **September 19, 2023, at 15:00 (local time)**.
7. All Bids must be accompanied by a **Bid Security**. The amount of Bid Security required is EURO 28000 or an equivalent amount in freely convertible currency or equivalent amount in AMD.
8. **Attention is drawn to the Procurement Regulations requiring the Borrower to disclose information on the successful bidder's beneficial ownership, as part of the Contract Award Notice, using the Beneficial Ownership Disclosure Form as included in the bidding document.**
9. The address (es) referred to above is (are):

Office of the Prime Minister of RA

Address: Government House 1, Republic Square (1-st Floor, Room 115, 117)

Attn: Mr. Aharon Mkrtchyan, PSMP4 Project Manager

E-mail: [info@psmp.am](mailto:info@psmp.am)

City: Yerevan

ZIP Code: 0010

Country: Republic of Armenia

Telephone: (+374 10) 515931

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## **PART 1 – BIDDING PROCEDURES**

## SECTION I - INSTRUCTIONS TO BIDDERS (ITB)

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## Section I - Instructions to Bidders

### A. GENERAL

#### 1. Scope of Bid

- 1.1. The Purchaser, as indicated in the BDS, or its duly authorized Purchasing Agent if so specified in the BDS (interchangeably referred to as “the Purchaser” issues this bidding document for the supply and installation of the Information System as specified in Section VII, Purchaser’s Requirements. The name, identification and number of lots (contracts) of this RFB are specified in the BDS.
- 1.2. Unless otherwise stated, throughout this bidding document definitions and interpretations shall be as prescribed in the Section VIII, General Conditions of Contract.

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.
- (d) “ES” means environmental and social (including Sexual Exploitation and Abuse (SEA), and Sexual Harassment (SH));
- (e) “Sexual Exploitation and Abuse” “(SEA)” means the following:
  - 1.1.1 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;
  - 1.1.2 Sexual Abuse is defined as the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions.
- (f) “Sexual Harassment” “(SH)” is defined as unwelcome sexual advances, requests for sexual favors, and other verbal

or physical conduct of a sexual nature by the Supplier's Personnel with other Supplier's Personnel or Purchaser's Personnel.

(g) "Supplier's Personnel" is as defined in GCC Sub-Clause 1.1; and

(h) "Purchaser's Personnel" is as defined in GCC Sub-Clause 1.1.

A non-exhaustive list of (i) behaviors which constitute SEA and (ii) behaviors which constitute SH is attached to the Code of Conduct form in Section IV

- |                                |   |
|--------------------------------|---|
| <b>2. Source of Funds</b>      | <p>2.1. The Borrower or Recipient (hereinafter called "Borrower") indicated 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(s) for which this bidding document is issued.</p> <p>2.2. Payments 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 between the Borrower and the Bank (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that 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 equipment, materials or any other 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 funds.</p> |
| <b>3. Fraud and Corruption</b> | <p>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.</p> <p>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</p>   |

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 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) any of its affiliates participates as a consultant in the preparation of the design or technical specifications of the Information System 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 as Project Manager 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 ITB 2.1 that it provided or were provided by any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm; 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 as a Bidder or as JV member in more than one Bid except for permitted alternative Bids. Such participation shall result in the disqualification of all Bids in which the firm is involved. However, this does not limit the participation of a Bidder as subcontractor in another Bid or of a firm 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 sub-contractors or sub-consultants 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 initially selected for, prequalified 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 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. This Bidding is open for all eligible Bidders, unless otherwise specified in ITB 15.2.
- 4.10. A Bidder shall provide such documentary evidence of eligibility satisfactory to the Purchaser, as the Purchaser shall reasonably request.
- 4.11. 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 Services**

- 5.1. The Information Systems 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 the purposes of this bidding document, the term “Information System” means all:
- (a) the required information technologies, including all information processing and communications-related hardware, software, supplies, and consumable items that the Supplier is required to design, supply and install under the Contract, plus all associated documentation, and all other materials and goods to be designed, supplied, installed, integrated, and made operational; and
  - (b) the related software development, transportation, insurance, installation, customization, integration, commissioning, training, technical support, maintenance, repair, and other services necessary for proper operation of the Information System to be provided by the selected Bidder and as specified in the Contract.
- 5.3. For purposes of ITB 5.1 above, “origin” means the place where the goods and services making the Information System are produced in or supplied from. An Information System is deemed to be produced in a certain country when, in the territory of that country, through software development, manufacturing, or substantial and major assembly or integration of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components.

## **B. CONTENTS OF BIDDING DOCUMENT**

**6. Sections of Bidding Document**

- 6.1 The bidding document consists 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 - Bid Data Sheet (BDS)

Section III - Evaluation and Qualification Criteria

Section IV - Bidding Forms

Section V - Eligible Countries

Section VI - Fraud and Corruption

**PART 2 - Purchaser's Requirements**

Section VII - Requirements of the IS, including:

- Technical Requirements
- Implementation Schedule
- System Inventory Tables
- Background and Informational Materials

**PART 3 - Contract**

Section VIII - General Conditions of Contract

Section IX -Special Conditions of Contract

Section X - Contract Forms

- 6.1. 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 Bidding Document, Site Visit, Pre-bid Meeting**

- 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 or raise its enquiries during the pre-Bid meeting if provided for in accordance with ITB 7.4. 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's 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 Purchaser deem it necessary to amend the bidding document as a result of a request for clarification, it shall do so following the procedure under ITB 8 and ITB 23.2.
- 7.2. The Bidder may wish to visit and examine the site where the Information System is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract. The costs of visiting the site shall be at the Bidder's own expense.
- 7.3. The Bidder and any of its personnel or agents will be granted permission by the Purchaser to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Purchaser and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 7.4. The Bidder's designated representative is invited to attend a pre-Bid meeting and/or a site visit, if provided for in the BDS. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 7.5. The Bidder is requested, as far as possible, to submit any questions in writing, to reach the Purchaser not later than one week before the meeting.
- 7.6. Minutes of the pre-Bid meeting, including the text of the questions raised without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the bidding document in accordance with ITB 6.3. Any modification to the bidding document that may become necessary as a result of the pre-Bid meeting shall be made by the Purchaser exclusively through



the issue of an Addendum pursuant to ITB 8 and not through the minutes of the pre-Bid meeting.

- 7.7. Nonattendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.

**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 23.2

## **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 in the language specified in the BDS, in which case, for purposes of interpretation of the Bid, such translation shall govern.

**11. Documents Comprising the Bid**

- 11.1. The Bid submitted by the Bidder shall comprise the following:
- (a) **Letter of Bid** prepared in accordance with ITB 12;
  - (b) **Price Schedules** completed in accordance with ITB 12 and ITB 17;
  - (c) **Bid Security or Bid-Securing Declaration** in accordance with ITB 20;

- (d) **Alternative Bid:** if permissible, in accordance with ITB 13;
- (e) **Authorization:** written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 21.3;
- (f) **Eligibility of Information System:** documentary evidence established in accordance with ITB 14.1 that the Information System offered by the Bidder in its Bid or in any alternative Bid, if permitted, are eligible;
- (g) **Bidder's Eligibility:** documentary evidence in accordance with ITB 15 establishing the Bidder's eligibility and qualifications to perform the contract if its Bid is accepted;
- (h) **Conformity:** documentary evidence established in accordance with ITB 16 that the Information System offered by the Bidder conform to the bidding document;
- (i) **Subcontractors:** list of subcontractors, in accordance with ITB 16.4;
- (j) **Intellectual Property:** a list of: Intellectual Property as defined in GCC Clause 15;
  - (i) all Software included in the Bid, assigning each item to one of the software categories defined in GCC Clause 1.1 (c):
    - a. System, General Purpose, and Application Software;  
or
    - b. Standard and Custom Software;
  - (ii) all Custom Materials, as defined in GCC Clause 1.1 (c), included in the Bid;

All Materials not identified as Custom Materials shall be deemed Standard Materials, as defined in GCC Clause 1.1 (c);

Re-assignments among the Software and Materials categories, if necessary, will be made during the implementation of the Contract according to GCC Clause 39 (Changes to the Information System); and
- (k) any other document required **in the BDS**.

- 11.2. In addition to the requirements under ITB 11.1, Bids submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members indicating at least the parts of the Information System to be executed by the respective 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 indicating at least the parts of the Information System to be executed by the respective members.

- 11.3. 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. Letter of Bid  
and Price  
Schedules**

- 12.1. The Bidder shall complete the Letter of Bid, including the appropriate Price Schedules, 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 21.3. All blank spaces shall be filled in with the information requested.

**13. Alternative  
Bids**

- 13.1. The BDS indicates whether alternative Bids are allowed. If they are allowed, the BDS will also indicate whether they are permitted in accordance with ITB 13.3, or invited in accordance with ITB 13.2 and/or ITB 13.4.
- 13.2. When alternatives to the Time Schedule are explicitly invited, a statement to that effect will be included in the BDS, and the method of evaluating different time schedules will be described in Section III, Evaluation and Qualification Criteria.
- 13.3. Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the Purchaser's requirements as described in the bidding document must also provide: (i) a price at which they are prepared to offer an Information System meeting the Purchaser's requirements; and (ii) all information necessary for a complete evaluation of the alternatives by the Purchaser, including drawings, design calculations, technical specifications, breakdown of prices, and proposed installation methodology and other relevant details. Only the technical alternatives, if any, of the Bidder with the Most Advantageous Bid conforming to the basic technical requirements shall be considered by the Purchaser.
- 13.4. When Bidders are invited in the BDS to submit alternative technical solutions for specified parts of the system, such parts shall be described in Section VII, Purchaser's Requirements. Technical alternatives that comply with the performance and technical criteria specified for the Information System shall be considered by the Purchaser on their own merits, pursuant to ITB 35.

- |  |  |
|--|--|
| <b>14. Documents Establishing the Eligibility of the Information System</b>        | 14.1. To establish the eligibility of the Information System in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.   |
| <b>15. Documents Establishing the Eligibility and Qualifications of the Bidder</b> | <p>15.1. To establish its eligibility and qualifications to perform the Contract in accordance with Section III, Evaluation and Qualification Criteria, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.</p> <p>15.2. In the event that prequalification of potential Bidders has been undertaken as stated in the BDS, only Bids from prequalified Bidders shall be considered for award of Contract. These qualified Bidders should submit with their Bids any information updating their original prequalification applications or, alternatively, confirm in their Bids that the originally submitted prequalification information remains essentially correct as of the date of Bid submission.</p>  |
| <b>16. Documents Establishing Conformity of the Information System</b>             | <p>16.1. Pursuant to ITB 11.1 (h), the Bidder shall furnish, as part of its Bid, documents establishing the conformity to the bidding documents of the Information System that the Bidder proposes to design, supply and install under the Contract.</p> <p>16.2. The documentary evidence of conformity of the Information System to the bidding documents including:</p> <ul style="list-style-type: none"><li>(a) Preliminary Project Plan describing, among other things, the methods by which the Bidder will carry out its overall management and coordination responsibilities if awarded the Contract, and the human and other resources the Bidder proposes to use. The Preliminary Project Plan must also address any other topics specified in the BDS. In addition, the Preliminary Project Plan should state the Bidder's assessment of what it expects the Purchaser and any other party involved in the implementation of the Information System to provide during implementation and how the Bidder proposes to coordinate the activities of all involved parties;</li><li>(b) written confirmation that the Bidder accepts responsibility for the successful integration and inter-operability of all components of the Information System as required by the bidding documents;</li><li>(c) an item-by-item commentary on the Purchaser's Technical Requirements, demonstrating the substantial responsiveness</li></ul> |

of the Information System offered to those requirements. In demonstrating responsiveness, the Bidder should use the Technical Responsiveness Checklist (or Checklist Format) in the Sample Bidding Forms (Section IV). The commentary shall include explicit cross-references to the relevant pages in the supporting materials included in the bid. Whenever a discrepancy arises between the item-by-item commentary and any catalogs, technical specifications, or other preprinted materials submitted with the bid, the item-by-item commentary shall prevail;

- (d) support material (e.g., product literature, white papers, narrative descriptions of technologies and/or technical approaches), as required and appropriate; and
- (e) any separate and enforceable contract(s) for Recurrent Cost items which the BDS ITB 17.2 requires Bidders to bid.

16.3. References to brand names or model numbers or national or proprietary standards designated by the Purchaser in the bidding documents are intended to be descriptive and not restrictive. Except as specified in the BDS for specific items or standards, the Bidder may substitute alternative brand/model names or standards in its bid, provided that it demonstrates to the Purchaser's satisfaction that the use of the substitute(s) will result in the Information System being able to perform substantially equivalent to or better than that specified in the Technical Requirements.

16.4. For major items of the Information System as listed by the Purchaser in Section III, Evaluation and Qualification Criteria, which the Bidder intends to purchase or subcontract, the Bidder shall give details of the name and nationality of the proposed subcontractors, including manufacturers, for each of those items. In addition, the Bidder shall include in its Bid information establishing compliance with the requirements specified by the Purchaser for these items. Quoted rates and prices will be deemed to apply to whichever subcontractor is appointed, and no adjustment of the rates and prices will be permitted.

16.5. The Bidder shall be responsible for ensuring that any subcontractor proposed complies with the requirements of ITB 4, and that any goods or services to be provided by the subcontractor comply with the requirements of ITB 5 and ITB 16.1.

## **17. Bid Prices**

17.1. All Goods and Services identified in the Supply and Installation Cost Sub-Tables in System Inventory Tables in Section VII, and all other Goods and Services proposed by the Bidder to fulfill the requirements of the Information System, must be priced separately and summarized in the corresponding cost tables in the Sample

Bidding Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below.

- 17.2. Unless otherwise specified in the BDS, the Bidder must also bid Recurrent Cost Items specified in the Technical Requirements, Recurrent Cost Sub-Table of the System Inventory Tables in Section VII (if any). These must be priced separately and summarized in the corresponding cost tables in the Sample Bidding Forms (Section IV), in accordance with the instructions provided in the tables and in the manner specified below:
- (a) if specified **in the BDS**, the Bidder must also bid separate enforceable contracts for the Recurrent Cost Items not included in the main Contract;
  - (b) prices for Recurrent Costs are all-inclusive of the costs of necessary Goods such as spare parts, software license renewals, labor, etc., needed for the continued and proper operation of the Information System and, if appropriate, of the Bidder's own allowance for price increases;
  - (c) prices for Recurrent Costs beyond the scope of warranty services to be incurred during the Warranty Period, defined in GCC Clause 29.4 and prices for Recurrent Costs to be incurred during the Post-Warranty Period, defined in SCC Clause 1.1. (e) (xiii), shall be quoted as Service prices on the Recurrent Cost Sub-Table in detail, and on the Recurrent Cost Summary Table in currency totals.
- 17.3. Unit prices must be quoted at a level of detail appropriate for calculation of any partial deliveries or partial payments under the contract, in accordance with the Implementation Schedule in Section VII), and with GCC and SCC Clause 12 – Terms of Payment. Bidders may be required to provide a breakdown of any composite or lump-sum items included in the Cost Tables
- 17.4. The price of items that the Bidder has left blank in the cost tables provided in the Sample Bid Forms (Section IV) shall be assumed to be included in the price of other items. Items omitted altogether from the cost tables shall be assumed to be omitted from the bid and, provided that the bid is substantially responsive, an adjustment to the bid price will be made during bid evaluation in accordance with ITB 31.3.
- 17.5. The prices for Goods components of the Information System are to be expressed and shall be defined and governed in accordance with the rules prescribed in the edition of Incoterms specified in the BDS, as follows:

- (a) Goods supplied from outside the Purchaser's country:

Unless otherwise specified **in the BDS**, the prices shall be quoted on a CIP (named place of destination) basis, exclusive of all taxes, stamps, duties, levies, and fees imposed in the Purchaser's country. The named place of destination and special instructions for the contract of carriage are as specified in the SCC for GCC 1.1 (e) (iii). In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible countries. Similarly, the Bidder may obtain insurance services from any eligible source country;

- (b) Locally supplied Goods:

Unit prices of Goods offered from within the Purchaser's Country, shall be quoted on an EXW (ex factory, ex works, ex warehouse or off-the-shelf, as applicable) basis, including all customs duties, levies, fees, sales and other taxes incurred until delivery of the Goods, but excluding all VAT or sales and other taxes and duties/fees incurred for the Goods at the time of invoicing or sales transaction, if the Contract is awarded;

- (c) Inland transportation.

- 17.6. Unless otherwise stated in the BDS, inland transportation, insurance and related local costs incidental to the delivery of the Goods to the designated Project Sites must be quoted separately as a Service item in accordance with ITB 17.5, whether the Goods are to be supplied locally or from outside the Purchaser's country, except when these costs are already included in the price of the Goods, as is, e.g., the case, when ITB 17.5 (a) specifies CIP, and the named places of destination are the Project Sites.
- 17.7. The price of Services shall be separated into their local and foreign currency components and where appropriate, broken down into unit prices. Prices must include all taxes, duties, levies and fees whatsoever, except only VAT or other indirect taxes, or stamp duties, that may be assessed and/or apply in the Purchaser's country on/to the price of the Services invoiced to the Purchaser, if the Contract is awarded.
- 17.8. Unless otherwise specified in the BDS, the prices must include all costs incidental to the performance of the Services, as incurred by the Supplier, such as travel, subsistence, office support, communications, translation, printing of materials, etc. Costs incidental to the delivery of the Services but incurred by the Purchaser or its staff, or by third parties, must be included in the price only to the extent such obligations are made explicit in these

bidding documents (as, e.g., a requirement for the Bidder to include the travel and subsistence costs of trainees).

- 17.9. Unless otherwise specified in the BDS, prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to increases on any account. Bids submitted that are subject to price adjustment will be rejected.

**18. Currencies of Bid and Payment**

- 18.1. The currency(ies) of the Bid and currencies of payment 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.
- 18.2. 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.

**19. Period of Validity of Bids**

- 19.1. 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.
- 19.2. In exceptional circumstances, prior to the date of expiry of the Bid validity, the Purchaser may request Bidders to extend the date of validity until a specified date. The request and the responses shall be made in writing. If a Bid Security is requested in accordance with ITB 20, it shall also be extended for twenty-eight days (28) beyond the deadline of the extended validity 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 19.3.
- 19.3. If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity specified in accordance with ITB 19.1, the Contract price shall be determined as follows:
- (a) in case of fixed price contracts, the contract price shall be the Bid price adjusted by a factor or factors specified **in the BDS**;
  - (b) in the case of an adjustable price contracts, no adjustments 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.

## 20. Bid Security

- 20.1. The Bidder shall furnish as part of its Bid, either a Bid-Securing Declaration or a Bid Security as specified in the BDS, in original form and, in the case of a Bid Security, in the amount and currency specified in the BDS.
- 20.2. A Bid-Securing Declaration shall use the form included in Section IV, Bidding Forms.
- 20.3. If a Bid Security is specified pursuant to ITB 20.1, 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 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 indicated **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. In either case, the form must include the complete name of the Bidder. 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 19.2.

- 20.4. If a Bid Security or a Bid-Securing Declaration is specified pursuant to ITB 20.1, any Bid not accompanied by a substantially responsive Bid Security or Bid-Securing Declaration shall be rejected by the Purchaser as non-responsive.

- 20.5. If a Bid Security is specified pursuant to ITB 20.1, the Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the Performance Security pursuant to ITB 48.
- 20.6. 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.
- 20.7. 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 47; or
    - (ii) furnish a performance security in accordance with ITB 48.
- 20.8. The Bid Security or the Bid-Securing Declaration of a JV shall 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 the Bid-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2.
- 20.9. If a Bid Security is not required in the BDS, and;
- (a) if a Bidder withdraws its Bid prior to the expiry date of the 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 47; or furnish a Performance Security in accordance with ITB 48;
- the Purchaser may, if provided for **in the BDS**, declare the Bidder disqualified to be awarded a contract by the Purchaser for a period of time as stated **in the BDS**.

**21. Format and  
Signing of Bid**

- 21.1. The Bidder shall prepare one original of the documents comprising the Bid as described in ITB 11 and clearly mark it “Original.” Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked “Alternative”. In addition, the Bidder shall submit copies of the Bid, in the number specified in the BDS and clearly mark them “Copy.” In the event of any discrepancy between the original and the copies, the original shall prevail.
- 21.2. 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.
- 21.3. 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.
- 21.4. 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.
- 21.5. Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Bid.

**D. SUBMISSION AND OPENING OF BIDS****22. Submission,  
Sealing and  
Marking of Bids**

- 22.1. The Bidder shall deliver the Bid in a single, sealed envelope (one (1) envelope process). Within the single envelope the Bidder shall place the following separate, sealed envelopes:
  - (a) in an envelope marked “ORIGINAL”, all documents comprising the Bid, as described in ITB 11; and
  - (b) in an envelope marked “COPIES”, all required copies of the Bid; and,
  - (c) if alternative Bids are permitted in accordance with ITB 13, and if relevant:
    - (i) in an envelope marked “ORIGINAL – ALTERNATIVE BID”, the alternative Bid; and

- (ii) in the envelope marked “COPIES – ALTERNATIVE BID” all required copies of the alternative Bid.

22.2. The inner and outer envelopes shall:

- (a) bear the name and address of the Bidder;
- (b) be addressed to the Purchaser in accordance with ITB 23.1;
- (c) bear the specific identification of this Bidding process indicated in accordance with ITB 1.1; and
- (d) bear a warning not to open before the time and date for Bid opening.

22.3. 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.

**23. Deadline for Submission of Bids**

23.1. Bids must be received by the Purchaser at the address and no later than the date and time indicated 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.

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

**24. Late Bids**

24.1. 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.

**25. Withdrawal, Substitution, and Modification of Bids**

- 25.1. 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 in accordance with ITB 21.3, (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 21 and ITB 22 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
  - (b) received by the Purchaser prior to the deadline prescribed for submission of Bids, in accordance with ITB 23.
- 25.2. Bids requested to be withdrawn in accordance with ITB 25.1 shall be returned unopened to the Bidders.
- 25.3. No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the date of expiry of the Bid validity specified by the Bidder on the Letter of Bid or any extended date thereof.

**26. Bid Opening**

- 26.1. Except as in the cases specified in ITB 24 and ITB 25.2, the Purchaser shall conduct the Bid opening in public, in the presence of Bidders` designated representatives and anyone who chooses to attend, and at the address, date and time specified in the BDS. Any specific electronic Bid opening procedures required if electronic bidding is permitted in accordance with ITB 23.1, shall be as specified in the BDS.
- 26.2. First, envelopes marked “Withdrawal” shall be opened and read out and the envelope with the corresponding Bid shall not be opened, but returned to the Bidder. 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.
- 26.3. 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.

- 26.4. 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.
- 26.5. Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Bidder and the Bid Price(s), including any discounts and alternative Bids, and indicating whether there is a modification; the presence or absence of a Bid Security or Bid-Securing Declaration; and any other details as the Purchaser may consider appropriate.
- 26.6. Only Bids, alternative Bids and discounts that are opened and read out at Bid opening shall be considered further in the evaluation. The Letter of Bid and the Price Schedules are to be initialed by representatives of the Purchaser attending Bid opening in the manner specified in the BDS.
- 26.7. The Purchaser shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 24.1).
- 26.8. The Purchaser shall prepare a record of the Bid opening that shall include, as a minimum:
- (a) the name of the Bidder and whether there is a withdrawal, substitution, or modification;
  - (b) the Bid Price, per lot if applicable, including any discounts;
  - (c) any alternative Bids; and
  - (d) the presence or absence of a Bid Security or a Bid-Securing Declaration.
- 26.9. 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.

## **E. EVALUATION AND COMPARISON OF BIDS**

- 27. Confidentiality**      27.1. Information relating to the evaluation of Bids and recommendation of contract award, shall not be disclosed to Bidders or any other persons not officially concerned with the Bidding process until the Notification of Intention to Award the Contract is transmitted to all Bidders in accordance with ITB 42.

- 27.2. Any effort by a Bidder to influence the Purchaser in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 27.3. Notwithstanding ITB 27.2, 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.
- 28. Clarification of Bids**
- 28.1. To assist in the examination, evaluation, and 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 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 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 32.
- 28.2. 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.
- 29. Deviations, Reservations, and Omissions**
- 29.1. 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
  - (c) "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- 30. Determination of Responsiveness**
- 30.1. 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.

- 30.2. A substantially responsive Bid is one that meets the requirements of the bidding document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that;
- (a) if accepted, would:
    - (i) affect in any substantial way the scope, quality, or performance of the Information System 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 proposed Contract; or
  - (b) if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.
- 30.3. The Purchaser shall examine the technical aspects of the Bid in particular, to confirm that all requirements of Section VII, Purchaser's Requirements have been met without any material deviation, reservation, or omission.
- 30.4. To be considered for Contract award, Bidders must have submitted Bids:
- (a) for which detailed Bid evaluation using the same standards for compliance determination as listed in ITB 29 and ITB 30.3 confirms that the Bids are commercially and technically responsive, and include the hardware, Software, related equipment, products, Materials, and other Goods and Services components of the Information System in substantially the full required quantities for the entire Information System or, if allowed in the BDS ITB 35.8, the individual Subsystem, lot or slice Bid on; and are deemed by the Purchaser as commercially and technically responsive; and
  - (b) that offer Information Technologies that are proven to perform up to the standards promised in the bid by having successfully passed the performance, benchmark, and/or functionality tests the Purchaser may require, pursuant to ITB 39.3.
- 31. Nonmaterial Nonconformities**
- 31.1. Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformity in the Bid that does not constitute a material deviation, reservation or omission.



- 31.2. 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 in the Bid related to documentation requirements. Requesting information or documentation on such nonconformities 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.
- 31.3. Provided that a Bid is substantially responsive, the Purchaser shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component by adding the average price of the item or component quoted by substantially responsive Bidders. If the price of the item or component cannot be derived from the price of other substantially responsive Bids, the Purchaser shall use its best estimate.

### **32. Correction of Arithmetical Errors**

- 32.1. Provided that the Bid is substantially responsive, the Purchaser shall correct arithmetical errors on the following basis:
- (a) where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly;
  - (b) where there are errors between the total of the amounts of Schedule Nos. 1 to 5 and the amount given in Schedule No. 6 (Grand Summary), the former shall prevail and the latter will be corrected accordingly; 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.
- 32.2. A Bidder shall be requested to accept the correction of arithmetical errors. Failure to accept the correction in accordance with ITB 32.1 shall result in the rejection of the Bid.

### **33. Conversion to Single Currency**

- 33.1. For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted into a single currency as specified in the BDS.

**34. Margin of Preference**

34.1. No margin of domestic preference shall apply.

**35. Evaluation of Bids**

35.1. The Purchaser shall use the criteria and methodologies listed in this ITB and Section III, Evaluation and Qualification criteria. No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Purchaser shall determine the Most Advantageous Bid.

**Preliminary Examination**

35.2. The Purchaser will examine the bids, to determine whether they have been properly signed, whether required sureties have been furnished, whether any computational errors have been made, whether required sureties have been furnished and are substantially complete (e.g., not missing key parts of the bid or silent on excessively large portions of the Technical Requirements). In the case where a pre-qualification process was undertaken for the Contract(s) for which these bidding documents have been issued, the Purchaser will ensure that each bid is from a pre-qualified bidder and, in the case of a Joint Venture, that partners and structure of the Joint Venture are unchanged from those in the pre-qualification

**Technical Evaluation**

35.3. The Purchaser will examine the information supplied by the Bidders Pursuant to ITB 11 and ITB 16, and in response to other requirements in the Bidding document, taking into account the following factors:

- (a) overall completeness and compliance with the Technical Requirements; and deviations from the Technical Requirements;
- (b) suitability of the Information System offered in relation to the conditions prevailing at the site; and the suitability of the implementation and other services proposed, as described in the Preliminary Project Plan included in the bid;
- (c) achievement of specified performance criteria by the Information System;
- (d) compliance with the time schedule called for by the Implementation Schedule and any alternative time schedules offered by Bidders, as evidenced by a milestone schedule provided in the Preliminary Project Plan included in the bid;

- (e) type, quantity, quality, and long-term availability of maintenance services and of any critical consumable items necessary for the operation of the Information System;
  - (f) any other relevant technical factors that the Purchaser deems necessary or prudent to take into consideration;
  - (g) any proposed deviations in the bid to the contractual and technical provisions stipulated in the bidding documents.
- 35.4. If specified in the BDS, the Purchaser's evaluation of responsive Bids will take into account technical factors, in addition to cost factors. The scores to be given to technical factors and sub factors, and the weights to be assigned for the technical factors and cost are specified in the BDS. An Evaluated Bid Score (B) will be calculated for each responsive Bid using the formula, specified in Section III, Evaluation and Qualification Criteria, which permits a comprehensive assessment of the Bid cost and the technical merits of each Bid.
- 35.5. Where alternative technical solutions have been allowed in accordance with ITB 13, and offered by the Bidder, the Purchaser will make a similar evaluation of the alternatives. Where alternatives have not been allowed but have been offered, they shall be ignored.

### **Economic Evaluation**

- 35.6. To evaluate a Bid, the Purchaser shall consider the following:
- (a) the Bid price, excluding provisional sums and the provision, if any, for contingencies in the Price Schedules;
  - (b) price adjustment for correction of arithmetic errors in accordance with ITB 32.1;
  - (c) price adjustment due to discounts offered in accordance with ITB 26.8;
  - (d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 33; and
  - (e) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 31.3;
  - (f) the evaluation factors indicated in Section III, Evaluation and Qualification Criteria.
- 35.7. If price adjustment is allowed in accordance with ITB 17.9, 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.

- 35.8. The Purchaser will evaluate and compare the Bids that have been determined to be substantially responsive, pursuant to ITB 30. The evaluation will be performed assuming either that:

- (a) the Contract will be awarded to the Most Advantageous Bid for the entire Information System; or
- (b) if specified **in the BDS**, Contracts will be awarded to the Bidders for each individual Subsystem, lot, or slice defined in the Technical Requirements whose Bids result in the Most Advantageous Bid/Bids for the entire System.

In the latter case, discounts that are conditional on the award of more than one Subsystem, lot, or slice may be offered in Bids. Such discounts will be considered in the evaluation of bids as specified **in the BDS**.

**36. Comparison of Bids**

- 36.1. The Purchaser shall compare all substantially responsive Bids in accordance with ITB 35.6 to determine the lowest evaluated cost.

**37. Abnormally Low Bids**

- 37.1. An Abnormally Low Bid is one where the Bid price in combination with other constituent elements of the Bid appears unreasonably low to the extent that the Bid price raises material concerns as to the capability of the Bidder to perform the Contract for the offered Bid Price.

- 37.2. In the event of identification of a potentially Abnormally Low Bid, the Purchaser shall seek written clarifications from the Bidder, including detailed price analyses of its Bid price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the bidding document.

- 37.3. 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.

**38. Unbalanced or Front Loaded Bids**

- 38.1. If the Bid that is evaluated as the lowest evaluated cost is, in the Purchaser's opinion, seriously unbalanced or front loaded the Purchaser may require the Bidder to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the Bid prices with the scope of information systems, installations, proposed

methodology, schedule and any other requirements of the bidding document.

38.2. After the evaluation of the information and detailed price analyses presented by the Bidder, the Purchaser may:

- (a) accept the Bid; or
- (b) if appropriate, require that the total amount of the Performance Security be increased, at the expense of the Bidder, to a level not exceeding twenty percent (20%) of the Contract Price; or
- (c) reject the Bid.

**39. Eligibility and  
Qualification of  
the Bidder**

39.1. The Purchaser shall determine to its satisfaction whether the Bidder that is selected as having submitted the lowest evaluated and substantially responsive Bid is eligible and meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.

39.2. The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 15, as well as other information the Purchaser deems necessary and appropriate. This determination may include visits or interviews with the Bidder's clients referenced in its bid and site inspections.

39.3. 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.

39.4. Unless otherwise specified in the BDS, the Purchaser will NOT carry out tests at the time of post-qualification, to determine that the performance or functionality of the Information System offered meets those stated in the Technical Requirements. However, if so specified in the BDS the Purchaser may carry out such tests as detailed in the BDS.

39.5. An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Purchaser shall proceed to the next lowest evaluated cost or best evaluated Bid, as the case may be, to make a similar

determination of that Bidder's qualifications to perform satisfactorily.

- 39.6. The capabilities of the manufacturers and subcontractors proposed by the Bidder that is determined to have offered the Most Advantageous Bid for identified major items of supply or services will also be evaluated for acceptability in accordance with Section III, Evaluation and Qualification Criteria. Their participation should be confirmed with a letter of intent between the parties, as needed. Should a manufacturer or subcontractor be determined to be unacceptable, the Bid will not be rejected, but the Bidder will be required to substitute an acceptable manufacturer or subcontractor without any change to the Bid price. Prior to signing the Contract, the corresponding Appendix to the Contract Agreement shall be completed, listing the approved manufacturers or subcontractors for each item concerned.

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

- 40.1. 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.

**41. Standstill Period**

- 41.1. 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 46. 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.

**42. Notification of  
Intention to  
Award**

- 42.1. The Purchaser shall send to each Bidder the Notification of Intention to Award the Contract to the successful Bidder. The Notification of Intention to Award shall contain, at a minimum, the following information:
- (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 Bid;

- (d) the names of all Bidders who submitted Bids, and their Bid prices as readout and as evaluated prices and technical scores (if applicable);
- (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; and
- (g) instructions on how to request a debriefing or submit a complaint during the standstill period;

## F. AWARD OF CONTRACT

- 43. Award Criteria**      43.1. Subject to ITB 40, 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. The determination of the Most Advantageous Bid will be made in accordance to one of the two options as defined in the BDS. The methodology options are:
- (a) when **rated criteria are used**: The Bidder that meets the qualification criteria and whose Bid:
    - (i) is substantially responsive; and
    - (ii) is the best evaluated Bid (i.e. the Bid with the highest combined technical/quality/price score); or
  - (b) when **rated criteria are not used**: The Bidder that meets the qualification criteria and whose Bid has been determined to be:
    - (i) substantially responsive to the bidding document; and
    - (ii) the lowest evaluated cost.
- 44. Purchaser's Right to Vary Quantities at Time of Award**      44.1. The Purchaser reserves the right at the time of Contract award to increase or decrease, by the percentage(s) for items as indicated in the BDS.

**45. Notification of Award**

- 45.1. Prior to the date of expiry of the Bid validity and upon expiry of the Standstill Period, specified in ITB 41.1 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 letter (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”).
- 45.2. 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) name of Bidders whose Bids were rejected and the reasons for their rejection;
  - (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, if specified in BDS ITB 47.1.
- 45.3. 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.
- 45.4. Until a formal contract is prepared and executed, the Notification of Award shall constitute a binding Contract.

**46. Debriefing by the Purchaser**

- 46.1. On receipt of the Purchaser’s Notification of Intention to Award referred to in ITB 42, 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.



- 46.2. 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.
- 46.3. 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.
- 46.4. Debriefings of unsuccessful Bidders may be done in writing or verbally. The Bidder shall bear their own costs of attending such a debriefing meeting.

#### **47. Signing of Contract**

- 47.1. The Purchaser shall send to the successful Bidder the Letter of Acceptance including the Contract Agreement, and, if specified in the BDS, a request to submit the Beneficial Ownership Disclosure Form providing additional information on its beneficial ownership. The Beneficial Ownership Disclosure Form, if so requested, shall be submitted within eight (8) Business Days of receiving this request.
- 47.2. The successful Bidder shall sign, date and return to the Purchaser, the Contract Agreement within twenty-eight (28) days of its receipt.
- 47.3. Notwithstanding ITB 47.2 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 Information System to be supplied, where such export restrictions arise from trade regulations from a country supplying those Information System, 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 Information System under the terms of the Contract.

**48. Performance Security**

- 48.1. Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the General Conditions, subject to ITB 38.2 (b), 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 Performance Security shall have a correspondent financial institution located in the Purchaser's Country.
- 48.2. Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Purchaser may award the Contract to the Bidder offering the next Most Advantageous Bid.

**49. Adjudicator**

- 49.1. Unless the BDS states otherwise, the Purchaser proposes that the person named in the BDS be appointed as Adjudicator under the Contract to assume the role of informal Contract dispute mediator, as described in GCC Clause 43.1. In this case, a résumé of the named person is attached to the BDS. The proposed hourly fee for the Adjudicator is specified in the BDS. The expenses that would be considered reimbursable to the Adjudicator are also specified in the BDS. If a Bidder does not accept the Adjudicator proposed by the Purchaser, it should state its non-acceptance in its Bid Form and make a counterproposal of an Adjudicator and an hourly fee, attaching a résumé of the alternative. If the successful Bidder and the Adjudicator nominated in the BDS happen to be from the same country, and this is not the country of the Purchaser too, the Purchaser reserves the right to cancel the Adjudicator nominated in the BDS and propose a new one. If by the day the Contract is signed, the Purchaser and the successful Bidder have not agreed on the appointment of the Adjudicator, the Adjudicator shall be appointed, at the request of either party, by the Appointing Authority specified in the SCC clause relating to GCC Clause 43.1.4, or if no Appointing Authority is specified there, the Contract will be implemented without an Adjudicator.

**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 Information System to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITB). Whenever there is a conflict, the provisions in the BDS shall prevail over those in ITB.

ITB Reference	A. General
<b>ITB 1.1</b>	<p>The reference number of the Request for Bids is: <b>PSMP4-GO-RFB-3.3</b></p> <p>The Purchaser is: <b>The State Revenue Committee of the Republic of Armenia and the Office of the Prime-Minister of the Republic of Armenia</b></p> <p>The name of the RFB is: <b>Procurement of an Artificial Intelligence and Machine Learning (AI&amp;ML) System.</b></p> <p><b>The Purchaser shall not accept bid for multiple lots under this bidding document.</b></p> <p>The lots are: <b>Not applicable</b></p>
<b>ITB 1.3 (a)</b>	<p>Electronic Procurement <b>shall not</b> be applicable to this procurement.</p> <p>The Purchaser shall use the following electronic-procurement system to manage this procurement process: <b>not applicable</b></p> <p>The electronic-procurement system shall be used to manage the following aspects of the Procurement process: <b>not applicable</b></p>
<b>ITB 2.1</b>	<p>The Borrower is: Republic of Armenia</p> <p>Loan or Financing Agreement amount: <b>EUR 26.5 million</b></p> <p>The name of the Project is: <b>Fourth Public Sector Modernization Project (PSMP4)</b></p>
<b>ITB 4.1</b>	Maximum number of members in the JV shall be: 3
<b>ITB 4.5</b>	A list of debarred firms and individuals is available on the Bank's external website: <a href="http://www.worldbank.org/debarr">http://www.worldbank.org/debarr</a> .
B. Bidding Document	
<b>ITB 7.1</b>	<p>For <u>Clarification of Bid purposes</u> only, the Purchaser's address is:</p> <p>Office of the Prime Minister of RA  Address: Government House 1, Republic Square (1-st Floor, Room 115, 117)  Attn: Mr. Aharon Mkrtchyan, PSMP4 Project Manager  E-mail: <a href="mailto:info@psmp.am">info@psmp.am</a></p>

	<p>City: Yerevan  ZIP Code: 0010  Country: Republic of Armenia  Telephone: (+374 10) 515931</p> <p>Requests for clarification should be received by the Purchaser no later than: 14 of days prior to the deadline for submission of Bids in accordance with ITB 23.</p>
<b>ITB 7.1</b>	Web page: <a href="http://www.gnumner.am">www.gnumner.am</a> website
<b>ITB 7.4</b>	<p>A Pre-Bid meeting <b>shall</b> take place.</p> <p>A Pre-Bid meeting shall take place at the following date, time and place:  Date: <b>August 30, 2023</b>  Time: <b>12:00 (local time)</b>  Venue: State Revenue Committee of the Republic of Armenia, IT Department  Address: Aharonyan St., 12/3 Building  City: Yerevan, 0069  Country: Armenia</p> <p>The Pre-Bid meeting will also be conducted online, and attendance and attendance is optional. If you wish to attend the online meeting, please request the meeting link by contacting <a href="mailto:info@psmp.am">info@psmp.am</a> .</p> <p>As per ITB 7.5, the Bidder is requested, as far as possible, to submit written questions to the Purchaser within one week prior to the meeting.</p> <p>A site visit conducted by the Purchaser <b>shall not be</b> organized.</p>
<b>C. Preparation of Bids</b>	
<b>ITB 10.1</b>	<p>The language of the Bid is: <b>English</b></p> <p>All correspondence exchange shall be in <b>English</b> language.</p> <p>Language for translation of supporting documents and printed literature is <b>English</b></p>
<b>ITB 11.1 (k)</b>	<p>The Bidder shall submit with its Bid the following additional documents:  The additional documents shall include the following:  <b>Code of Conduct for Supplier's Personnel (ES)</b></p> <p>The Bidder shall submit its Code of Conduct that will apply to the Supplier's Personnel (as defined in GCC sub-clause 1.1) employed in the execution of the Contract at the Project Site/s to ensure compliance with the Supplier's Environmental and/or Social obligations under the</p>

	Contract, as applicable. The Bidder shall use for this purpose the Code of Conduct form provided in Section IV. No substantial modifications shall be made to this form, except that the Bidder may introduce additional requirements, including as necessary to take into account specific Contract issues/risks.
<b>ITB 13.1</b>	Alternative Bids are not permitted.
<b>ITB 13.2</b>	Alternatives to the Time Schedule <b>are not</b> permitted.
<b>ITB 13.4</b>	Alternative technical solutions shall be permitted for the following parts of the Information System: <b>none</b>
<b>ITB 15.2</b>	Prequalification <b>has not</b> been undertaken.
<b>ITB 16.2 (a)</b>	In addition to the topics described in ITB Clause 16.2 (a), the Preliminary Project Plan must address the following topics: <ul style="list-style-type: none"> <li>(i) <b>Project Organization and Management Sub-Plan, including management authorities, responsibilities, and contacts, as well as task, time and resource-bound schedules (in GANTT format);</b></li> <li>(ii) <b>Implementation Sub-Plan;</b></li> <li>(iii) <b>Delivery and Installation Sub-Plan;</b></li> <li>(iv) <b>Warranty Defect Repair Service Sub-Plan (optional for Preliminary Project Plan);</b></li> <li>(v) <b>Architectural design of the Proposed solution;</b></li> <li>(vi) <b>System Integration Sub-Plan.</b></li> </ul>
<b>ITB 16.3</b>	In the interest of effective integration, cost-effective technical support, and reduced re-training and staffing costs, Bidders shall offer the following items: <b>Not applicable</b>
<b>ITB 17.2</b>	The Bidder <b>must not</b> bid Recurrent Cost Items
<b>ITB 17.2</b>	The Bidder <b>must not</b> bid for contracts for Recurrent Cost Items not included in the main Contract.
<b>ITB 17.5</b>	The Incoterms edition is: Incoterms® 2020
<b>ITB 17.5 (a)</b>	Named place of destination is: CIP Armenian border.
<b>ITB 17.6</b>	Named place of final destination (or Project site) is: The State Revenue Committee of the Republic of Armenia (Armenia, 0069, Yerevan Aharonyan St., 12/3 Building)
<b>ITB 17.8</b>	<b>There are no modifications to ITB 17.8</b>

<b>ITB 17.9</b>	The prices quoted by the Bidder <b>shall not</b> be subject to adjustment during the performance of the Contract.
<b>ITB 18.1</b>	<p>The Bidder <b>is not</b> required to quote in the currency of the Purchaser's Country the portion of the Bid price that corresponds to expenditures incurred in that currency.</p> <p><b>The local bidders are reminded that the requirements of the Law "On the currency regulation and currency control" of November 24, 2004, should be respected.</b></p>
<b>ITB 19.1</b>	The Bid shall be valid until: <b>December 18, 2023.</b>
<b>ITB 19.3 (a)</b>	<p>The Bid price shall be adjusted by the following factor(s):</p> <p><b>The local currency portion of the Contract price shall be adjusted by a factor reflecting local inflation during the period of extension, and the foreign currency portion of the Contract price shall be adjusted by a factor reflecting the international inflation (in the country of the foreign currency) during the period of extension.</b></p>
<b>ITB 20.1</b>	<p>A Bid Security <b>shall be</b> required. The Bid Security must be in the form of a Bank Guarantee included in Section IV.</p> <p>A Bid-Securing Declaration <b>shall not be</b> required.</p> <p>The amount and currency of the Bid Security shall be <b>EURO 28000 or an equivalent value in a freely convertible currency or the equivalent in AMD.</b></p> <p>The date for the exchange rate for the Bid Security shall be: <b>September 05, 2023.</b></p>
<b>ITB 20.3 (d)</b>	Other types of acceptable securities: <b>None</b>
<b>ITB 20.9</b>	Not Applicable
<b>ITB 21.1</b>	In addition to the original of the Bid ( <b><u>printed original (hard copy)</u></b> ), the number of copies is: Four (4) soft copy on Flash Memory card. In case of any discrepancy between the hard copy and electronic, the hard original copy will prevail.
<b>ITB 21.3</b>	The written confirmation of authorization to sign on behalf of the Bidder shall consist of: <b>Either a document that certifies the signer's authorization or a power of attorney if such a document is not available.</b>
<b>D. Submission and Opening of Bids</b>	

<b>ITB 23.1</b>	<p>For Bid submission purposes_only, the Purchaser's address is:</p> <p>Office of the Prime Minister of RA  Address: Government House 1, Republic Square (1-st Floor, Room 115, 117)  Attn: Mr. Aharon Mkrtchyan, PSMP4 Project Manager  City: Yerevan  ZIP Code: 0010  Country: Republic of Armenia  Telephone: (+374 10) 515931</p> <p>The deadline for Bid submission is:  Date: <b>September 19, 2023</b>  Time: <b>15:00 (local time)</b></p>
<b>ITB 23.1</b>	Bidders <b>shall not</b> have the option of submitting their Bids electronically.
<b>ITB 26.1</b>	<p>The Bid opening shall take place at:</p> <p>Office of the Prime Minister of RA  Street Address: Government House 1, Republic Square  Floor/Room number: 1-st Floor, Room 115, 117  City : Yerevan  ZIP Code: 0010  Country: Republic of Armenia  Date: <b>September 19, 2023</b>  Time: <b>15:00 (local time)</b></p>
<b>ITB 26.1</b>	The electronic Bid opening procedures shall be: <b>not applicable.</b>
<b>ITB 26.6</b>	The Letter of Bid and Price Schedules shall be initialed by the representatives of the Purchaser/Evaluation committee members conducting Bid opening.
<b>E. Evaluation, and Comparison of Bids</b>	
<b>ITB 33.1</b>	<p>The currency(ies) of the Bid shall be converted into a single currency as follows:</p> <p>The currency that shall be used for comparison purposes to convert the offered prices expressed in various currencies into a single currency is: <b>Armenian Drams (AMD)</b></p> <p>The source of exchange rate shall be: <b>Central Bank of the Republic of Armenia (www.cba.am).</b></p> <p>The date for the exchange rate shall be: <b>September 19, 2023.</b></p>



<b>ITB 35.4</b>	<p>The Purchaser's evaluation of responsive Bids <b>will take</b> into account scored technical factors, in addition to cost factors:</p> <div style="border: 1px solid black; padding: 5px;"> <p><b>1 Supplier Qualification &amp; Experience</b></p> <p>1.1 The Bidder should have participated as a prime supplier or management contractor or JV member, or sub-contractor in a minimum of 3 AI &amp; ML related assignments/contracts that were successfully implemented /completed within the last 5 years prior to the application submission deadline. Simultaneously, within the last 3 years, the total value of the AI &amp; ML-related contracts should be at least 2 million. (up to 25)</p> <p>1.2 The Bidder should have participated as a prime supplier or management contractor or JV member, or subcontractor in a minimum of 2 successfully completed previous software development and implementation assignments/contracts for either tax or customs authorities within the last 2 years. Simultaneously, the total value of these assignments/contracts should be at least 1.5 million USD. (up to 25)</p> <p>1.3 Having a successful working experience with Government Organizations, demonstrating strong expertise in areas such as customs and tax administrations. (up to 20)</p> <p>1.4 Having experience in CIS countries, particularly in projects related to tax and customs best practices. (up to 10)</p> <p>1.5 The adequacy and comprehensiveness of the Bidder's specification of security measures required to ensure the secure exchange of collected data between the Information System and all other authorized systems. (up to 10)</p> <p>1.6 The Bidder's ability to define thorough and comprehensive requirements to ensure the business continuity of all subsystems within the Information System (up to 10)</p> <p><b>Subtotal being 100 points, is 50% of total technical score</b></p> <p><b><u>2. Qualification of Key Personnel</u></b></p> <p>2.1 Project manager (up to 20)</p> <p>2.2 Lead Business Analyst (up to 12)</p> <p>2.3 SW Lead Engineer (up to 10)</p> <p>2.4 Lead Quality assurance specialist (up to 10)</p> <p>2.5 DB Administrator (up to 10)</p> <p>2.6 Lead System Administrator (up to 10)</p> <p>2.7 Sr. Machine Learning Engineer (up to 20)</p> <p>2.8 Lead Data scientist (up to 8)</p> <p><b>Subtotal being 100 points, is 50% of total technical score</b></p> </div> <p>The technical proposal scoring methodology is specified in Section III-Evaluation and Qualification Criteria.</p>
<b>ITB 35.4</b>	<p>If rated criterion is used:</p> <p>The weight to be given for cost, X is: <b>80%</b></p>
<b>ITB 35.8</b>	<p>Bids for Subsystems, lots, or slices of the overall Information System <b>will not</b> be accepted.</p> <p>Discount that are conditional on the award of more than one Subsystem, lot, or slice may be offered in Bids and such discounts <b>shall not</b> be considered in the price evaluation.</p>
<b>ITB 39.3</b>	<p>As additional qualification measures, the Information System (or components/parts of it) offered by the Bidder with the Most Advantageous Bid may be subjected to the following tests and performance benchmarks prior to Contract award: <b>none</b>.</p>

<b>F. AWARD OF CONTRACT</b>	
<b>ITB 43</b>	The award will be made on the basis of <b>rated</b> pursuant to ITB 35.7, if applicable, in accordance with Section III, Evaluation and Qualification Criteria.
<b>ITB 44</b>	The maximum percentage by which quantities may be increased is: N/A The maximum percentage by which quantities may be decreased is: N/A
<b>ITB 47.1</b>	The successful Bidder <b>shall</b> be required to submit the Beneficial Ownership Disclosure Form.
<b>ITB 49</b>	The proposed Adjudicator is: <b>There will be no Adjudicator under this Contract.</b>
<b>ITB 50.1</b>	<p>The procedures for making a Procurement-related Complaint are detailed in the “<a href="#">Procurement Regulations for IPF Borrowers</a> (Annex III).” A Procurement-related Complaint may challenge any of the following:</p> <p>The terms of the Bidding Documents; and</p> <p>The Purchaser’s decision to award the contract.</p> <p>If a Bidder wishes to make a Procurement-related Complaint, the Bidder should submit its complaint following these procedures, in writing (by the quickest means available, that is either by email or fax), to:</p> <p>For the attention: Mr. Aharon Mkrtchyan,</p> <p>Title/position: PSMP4 Project Manager</p> <p>Purchaser: Office of the Prime Minister of RA</p> <p>Email address: info@psmp.am</p>

## SECTION III - EVALUATION AND QUALIFICATION CRITERIA (WITHOUT PREQUALIFICATION)

This Section contains all the criteria that the Purchaser shall use to evaluate Bids and qualify Bidders. No other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.

In addition to the criteria listed in ITB 35.3 (a) to (e), the following factors shall apply:

### 1. Technical Evaluation (ITB 35.3 and ITB 35.4)

If, in addition to the cost factors, the Purchaser has chosen to give weight to important technical factors (i.e., the price weight, X, is less than 1 in the evaluation), the total technical points assigned to each Bid in the Evaluated Bid Formula will be determined by adding and weighting the scores assigned by an evaluation committee to technical features of the Bid **in accordance with the BDS** and the scoring methodology below:

#### Technical proposal scoring methodology

- (a) During the evaluation process, the evaluation committee will assign each feature a whole number score from 0 to 4, where 0 means that the feature is absent, and 1 to 4 either represent predefined values for desirable features amenable to an objective way of rating (as is the case for, e.g., extra memory, or extra mass storage capacity, etc., if these extras would be conducive for the utility of the system), or if the feature represents a desirable functionality (e.g., of a software package) or a quality improving the prospects for a successful implementation (such as the strengths of the proposed project staff, the methodology, the elaboration of the project plan, etc., in the bid), the scoring will be 1 for the feature being present but showing deficiencies; 2 for meeting the requirements; 3 for marginally exceeding the requirements; and 4 for significantly exceeding the requirements.
- (b) The score for each feature (i) within a category (j) will be combined with the scores of features in the same category as a weighted sum to form the Category Technical Score using the following formula:

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

where:

$t_{ji}$  = the technical score for feature “i” in category “j”

$w_{ji}$  = the weight of feature “i” in category “j”

$k$  = the number of scored features in category “j”

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

- (c) The Category 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 Category Technical Score of category “j”

$W_j$  = the weight of category “j” as specified in the BDS

$n$  = the number of categories

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

### **1.1. Technical Quality Evaluation Factors/Parameters**

The bid evaluation will take into account technical factors in addition to cost factors.

The weight of the Price (“X” multiplied by 100 in the Evaluated Bid Score formula) = 80 percent

#### **1 Supplier Qualification & Experience**

1.1 The Bidder should have participated as a prime supplier or management contractor or JV member, or sub-contractor in a minimum of 3 AI & ML related assignments/contracts that were successfully implemented /completed within the last 5 years prior to the application submission deadline. Simultaneously, within the last 3 years, the total value of the AI & ML-related contracts should be at least 2 million. (up to 25)

1.2 The Bidder should have participated as a prime supplier or management contractor or JV member, or subcontractor in a minimum of 2 successfully completed previous software development and implementation assignments/contracts for either tax or customs authorities within the last 2 years. Simultaneously, the total value of these assignments/contracts should be at least 1.5 million USD. (up to 25)

1.3 Having a successful working experience with Government Organizations, demonstrating strong expertise in areas such as customs and tax administrations. (up to 20)

1.4 Having experience in CIS countries, particularly in projects related to tax and customs best practices. (up to 10)

1.5 The adequacy and comprehensiveness of the Bidder's specification of security measures required to ensure the secure exchange of collected data between the Information System and all other authorized systems. (up to 10)

1.6 The Bidder's ability to define thorough and comprehensive requirements to ensure the business continuity of all subsystems within the Information System (up to 10)

**Subtotal being 100 points, is 50% of total technical score**

#### **2. Qualification of Key Personnel**

2.1 Project manager (up to 20)

2.2 Lead Business Analyst (up to 12)

2.3 SW Lead Engineer (up to 10)

2.4 Lead Quality assurance specialist (up to 10)

2.5 DB Administrator (up to 10)

2.6 Lead System Administrator (up to 10)

2.7 Sr. Machine Learning Engineer (up to 20)

2.8 Lead Data scientist (up to 8)

**Subtotal being 100 points, is 50% of total technical score**

No.	Category	Score from Table	Category Weight	Category Score	Category Total
1	Supplier Qualification & Experience	Table A	0.50	<i>Score from Table A</i>	<i>Score from Table A * 0.50</i>
2	Qualification of Key Personnel	Table B	0.50	<i>Score from Table B</i>	<i>Score from Table B * 0.50</i>
<b>TOTAL</b>					

### 1.1.1. Supplier Qualification & Experience Category

Within this Category, Bidders will be evaluated based on the following features:

<b>Table A – Category 1: Supplier Qualification &amp; Experience</b>					
No	Sub Category	Scoring	Feature Scores Assigned	Feature Weight	Total
1.1	The Bidder should have participated as a prime supplier or management contractor or JV member, or sub-contractor in a minimum of 3 AI & ML related assignments/contracts that were successfully implemented /completed within the last 5 years prior to the application submission deadline. Simultaneously, within the last 3 years, the total value of the AI & ML-related contracts should be at least 2 million.	3 contract =1 4 contracts = 2 5 contracts = 3 ≥6 contracts = 4		6.25	Feature Scores Assigned X Feature Weight
1.2	The Bidder should have participated as a prime supplier or management contractor or JV member, or subcontractor in a minimum of 2 successfully completed previous software development and implementation assignments/contracts for either tax or customs authorities within the last 2 years. Simultaneously, the total value of these assignments/contracts should be at least 1.5 million USD.	2 contract =1 3 contracts = 2 4 contracts = 3 ≥5 contracts = 4		6.25	Feature Scores Assigned X Feature Weight
1.3	Having a successful working experience with Government Organizations, demonstrating strong expertise in areas such as customs and tax administrations.	1 year = 1 2 years =2 3 years =3 ≥4 years =4		5	Feature Scores Assigned X Feature Weight
1.4	Having experience in CIS countries, particularly in projects related to tax and customs best practices.	Absence of experience in CIS countries especially of projects related to tax and customs = 0 Having experience in CIS countries especially of projects related to tax and customs =4		2.5	Feature Scores Assigned X Feature Weight
1.5	The Bidder should specify the security measures required for secure exchange of collected data between all other authorized systems	The security measures required for secure exchange of collected data between all other authorized systems		2.5	Feature Scores Assigned X Feature Weight

		are not properly specified=0 The security measures required for secure exchange of collected data between all other authorized systems are properly specified=4			
1.6	The Bidder should define requirements for ensure business continuity of all subsystems	The requirements for ensure business continuity of all subsystems are not properly defined=0 The requirements for ensure business continuity of all subsystems properly defined=4		2.5	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

### 1.1.2. Qualification of Key Personnel

Within this Category, Key Personnel proposed by the Bidders will be evaluated based on the following features:

Table B– Category 2: Qualification of Key Personnel				
No	Sub Category	Score from Table	Category 2 Score	Category Score
2.1	Project manager	B1 2.1	Total Score from Table B1 2.1	20.00
2.2	Lead Business Analyst	B1 2.2	Total Score from Table B1 2.2	12.00
2.3	SW Lead Engineer	B1 2.3	Total Score from Table B1 2.3	10.00
2.4	Lead Quality assurance specialist	B1 2.4	Total Score from Table B1 2.4	10.00
2.5	DB administrator	B1 2.5	Total Score from Table B1 2.5	10.00
2.6	Lead System Administrator	B1 2.6	Total Score from Table B1 2.6	10.00
2.7	Sr. Machine Learning Engineer	B1 2.7	Total Score from Table B1 2.7	20.00
2.8	Lead Data Scientist	B1 2.8	Total Score from Table B1 2.8	8.00
<b>TOTAL</b>				<b>100.00</b>

Table B1 2.1					
No	Sub Category	Scoring	Feature Scores Assigned	Feature Weight	Total
2.1	Project manager				

2.1.1	At least ten years of experience as a project manager for tax or customs related projects or ten years of experience in government tax and customs functions	10 years =1 11 years =2 12 years =3 ≥13 years =4		2.00	Feature Scores Assigned X Feature Weight
2.1.2	Experience in working with government organizations	<1 year =0 1 year =1 2 years =2 3 years =3 ≥4 years =4		1.25	Feature Scores Assigned X Feature Weight
2.1.3	Implementation of at least two successful projects in automated data collection, storage, and reporting platforms with comparable data volume and structure, scale, and security measures.	2 projects =1 3 projects =2 4 projects =3 ≥5 projects =4		1.25	Feature Scores Assigned X Feature Weight
2.1.4	Graduated higher education (Master Degree), and relevant experience, and excellent knowledge of English, Armenian and Russian	Graduated higher education (Master Degree) and 1 year of relevant experience and excellent knowledge of English and Armenian =1 Graduated higher education (Master Degree) and 2 years of relevant experience and excellent knowledge of English and Armenian =2 Graduated higher education (Master Degree) and 3 years of relevant experience and excellent knowledge of English and Armenian =3 Doctorate Degree and 5 and more years of relevant experience and excellent knowledge of English and Armenian, knowledge of Russian =4		0.50	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table BI 2.2</b>					
<b>No</b>	<b>Sub Category</b>	<b>Score from Criteria</b>	<b>Feature Scores Assigned</b>	<b>Feature Weight</b>	<b>Total</b>
<b>2.2</b>	<b>Lead Business Analyst</b>				
2.2.1	At least 4 years professional experience in management of information technologies	4 years =1 5 years =2 6 years =3 ≥7 years =4		1.00	Feature Scores Assigned X Feature Weight
2.2.2	At least 1 year of experience in management of automated data collection, storage, and reporting platforms with comparable data volume and structure, scale, and security measures.	1 year =3 ≥2 years =4		1.00	Feature Scores Assigned X Feature Weight
2.2.3	Implementation of at least two successful projects in automated data collection, storage, and reporting platforms area with comparable data volume and structure, scale, and security measures.	2 projects =1 3 projects =2 4 projects =3 ≥5 projects =4		0.50	Feature Scores Assigned X Feature Weight
2.2.4	Knowledge of the Armenian tax and customs system functionality	Absence of Knowledge of the Armenian tax and customs system functionality =0 Knowledge of the Armenian tax and customs system functionality =4		0.25	Feature Scores Assigned X Feature Weight

2.2.5	Graduated higher education (Ph.D) in IT/Data science and relevant experience	Doctorate Degree in IT/Data science and 5 years of relevant experience and excellent knowledge of English = 4 Doctorate Degree in IT/Data science and 4 years of relevant experience and excellent knowledge of English = 2		0.25	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table B1 2.3</b>					
No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>SW Lead Engineer</b>					
2.3.1	Minimum three 10 years experience in managing application design, software development, maintenance and delivery with experience of using Application, Web and Database servers	10 years = 1 11 years = 2 12 years = 3 ≥13 years = 4		1.00	Feature Scores Assigned X Feature Weight
2.3.2	Strong experience in distributed and multi-tiered systems architecture design	<2 years = 0 2 years = 1 3 years = 2 4 years = 3 ≥5 years = 4		0.50	Feature Scores Assigned X Feature Weight
2.3.3	Strong experience in development and implementation of highly complex technical solutions in a web environment	<2 years = 0 2 years = 1 3 years = 2 4 years = 3 ≥5 years = 4		0.50	Feature Scores Assigned X Feature Weight
2.3.4	Graduated higher education in programming and relevant experience and excellent knowledge of English	Doctorate Degree in data science, statistics and ≥10 years of relevant experience and excellent knowledge of English = 4 Master's Degree in data science, statistics and 10 years of relevant experience and excellent knowledge of English = 2		0.50	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table B1 2.4</b>					
No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>Lead Quality assurance specialist</b>					
2.4.1	At least 10 years experience of Quality assurance specialist, where the development of use cases was a must	10 years = 1 11 years = 2 12 years = 3 ≥13 years = 4		1.50	Feature Scores Assigned X Feature Weight
2.4.2	At least 3 years experience in testing of similar nature projects	3 years = 1 4 years = 2 5 years = 3 ≥6 years = 4		1.00	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table B1 2.5</b>					
No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>DB administrator</b>					



2.5.1	At least 7 of large scale database systems management and design	7 years =1 8 years = 2 9 years = 3 >10 years = 4		1.00	Feature Scores Assigned X Feature Weight
2.5.2	Implementation of at least two successful projects with usage of data topology methods (normalization, relational joining, recursion, and denormalization)	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		0.50	Feature Scores Assigned X Feature Weight
2.5.3	Implementation of at least two successful projects with usage of SQL	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		0.50	Feature Scores Assigned X Feature Weight
2.5.4	Implementation of at least two successful projects with usage of query optimization, log optimization, and document database optimization using primary keys and their equivalents.	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		0.25	Feature Scores Assigned X Feature Weight
2.5.5	Implementation of at least two successful projects with usage of Transactional, Document, and Relational Database systems	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		0.25	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table BI 2.6</b>					
No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>Lead System administrator</b>					
2.6.1	At least three years experience working with distributed systems administration in on-premise data centers.	3 years =1 4 years = 2 >4 years = 3		1.50	Feature Scores Assigned X Feature Weight
2.6.2	Implementation of at least two successful projects with usage of commodity software and hardware management inside a data center	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		1.00	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table BI 2.7</b>					
No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>Sr. Machine Learning Engineer</b>					
2.7.1	Minimum 5 years of Relevant Work Experience in Projects Involving Machine Learning Components	5 years =1 6 years = 2 7 years = 3 ≥8 years = 4		2.00	Feature Scores Assigned X Feature Weight
2.7.2	Implementation of at least two successful projects with usage of Python and SQL using ML toolkits	2 projects=1 3 projects =2 4 projects =3 ≥ 5 projects =4		1.50	Feature Scores Assigned X Feature Weight
2.7.3	Implementation of at least 5 successful projects with usage of machine learning, statistics, data cleansing, and machine learning systems design.	5 projects=1 6 projects =2 7 projects =3 ≥ 8 projects =4		1.00	Feature Scores Assigned X Feature Weight
2.7.4	Graduated education (Bachelor's degree) in Mathematics, Data Science, Statistics or closely related field	Absence of Bachelor's Degree in Mathematics, Data Science, Statistics or closely related field=0 Bachelor's Degree in Mathematics, Data Science, Statistics or closely related field =4		0.50	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

<b>Table BI 2.8</b>					
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No	Sub Category	Score from Criteria	Feature Scores Assigned	Feature Weight	Total
<b>Lead Data Scientist</b>					
<b>2.8.1</b>	Minimum 10 years of Relevant Work experience in Projects Involving Data Science Components	10 years =1 11 years = 2 12 years = 3 ≥13 years = 4		0.75	Feature Scores Assigned X Feature Weight
<b>2.8.2</b>	Implementation of at least 3 successful projects with usage of machine learning, statistics, data cleansing, and computing systems design	3 projects=1 4 projects =2 5 projects =3 ≥ 6 projects =4		0.50	Feature Scores Assigned X Feature Weight
<b>2.8.3</b>	Implementation of at least 3 successful projects with usage of Python and SQL, using ML toolkits (tensorflow, pandas, numpy, etc)	3 projects=1 4 projects =2 5 projects =3 ≥ 6 projects =4		0.50	Feature Scores Assigned X Feature Weight
<b>2.8.4</b>	Graduated education Ph.D. in Mathematics, Data Science, Statistics or closely related field	Absence of Doctorate Degree in Mathematics, Data Science, Statistics or closely related field = 0 Doctorate Degree in Mathematics, Data Science, Statistics or closely related field =4		0.25	Feature Scores Assigned X Feature Weight
<b>TOTAL</b>					

## 2. Economic Evaluation

The following factors and methods will apply:

### (a) Time Schedule:

The number of weeks, from the effective date specified in Article 3 of the Contract Agreement, to achieve Operational Acceptance must be no more than: 53 weeks

A Bid offering to achieve Operational Acceptance earlier than the maximum number of weeks ***shall not*** be given credit for bid evaluation purposes.

### (b) Specific additional criteria

The relevant evaluation method, if any, shall be as follows:

***Not Applicable***

## 3. Technical alternatives

If invited in accordance with ITB 13.4, will be evaluated as follows: ***none***

## 4. Combined Evaluation

The Purchaser will evaluate and compare the Bids that have been determined to be substantially responsive, pursuant to ITB 30.

If indicated by the BDS, the Purchaser's evaluation of responsive Bids will take into account technical factors, in addition to cost factors.

In such a case, an Evaluated Bid Score (B) will be calculated for each responsive Bid using the following formula, which permits a comprehensive assessment of the Bid price and the technical merits of each Bid:

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

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 Price as specified in the BDS (80%)

The Bid with the best evaluated Bid Score (B) among responsive Bids shall be the Most Advantageous Bid provided the Bidder was prequalified and/or it was found to be qualified to perform the Contract in accordance with ITB 39.

## 5. Qualification

Factor	5.1 ELIGIBILITY					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.1.1 Nationality	Nationality in accordance with ITB 4.4.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Form ELI –5.1.1 and 5.1.2, with attachments
5.1.2 Conflict of Interest	No- conflicts of interests as described in ITB 4.2.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Letter of Bid
5.1.3 Bank Ineligibility	Not having been declared ineligible by the Bank as described in ITB 4.5.	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Letter of Bid
5.1.4 State owned Entity of the Borrower country	Compliance with conditions of ITB 4.6	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Form ELI –5.1.1 and 5.1.2, with attachments
5.1.5 United Nations resolution or Borrower’s country law	Not having been excluded as a result of prohibition in the Borrower’s country laws or official regulations against commercial relations with the Bidder’s country, or by an act of compliance with UN Security Council resolution, both in accordance with ITB 4.8	Must meet requirement	Must meet requirement	Must meet requirement	N / A	Letter of Bid

Factor	5.2 HISTORICAL CONTRACT NON-PERFORMANCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.2.1 History of non-performing contracts	Non-performance of a contract <sup>1</sup> did not occur as a result of Bidder's default since 1 <sup>st</sup> January 2020.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement <sup>2</sup>	N / A	Form CON - 2
5.2.2 Suspension	Not under suspension based on execution of a Bid Securing Declaration or Proposal Securing Declaration pursuant to ITB 4.7 and ITB 20.10	Must meet requirement	N / A	Must meet requirement	N / A	Letter of Bid

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<sup>1</sup> Nonperformance, as decided by the Purchaser, shall include all contracts where (a) nonperformance was not challenged by the contractor, including through referral to the dispute resolution mechanism under the respective contract, and (b) contracts that were so challenged but fully settled against the contractor. Nonperformance shall not include contracts where Purchaser decision was overruled by the dispute resolution mechanism. Nonperformance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective contract and where all appeal instances available to the applicant have been exhausted.

<sup>2</sup> This requirement also applies to contracts executed by the Applicant as JV member.

Factor	5.2 HISTORICAL CONTRACT NON-PERFORMANCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.2.3 Pending Litigation	Bidder’s financial position and prospective long term profitability still sound according to criteria established in 5.3.1 below and assuming that all pending litigation will be resolved against the Bidder.	Must meet requirement by itself or as member to past or existing JV	N / A	Must meet requirement	N / A	Form CON – 2
5.2.4 Litigation History	No consistent history of court/arbitral award decisions against the Bidder <sup>3</sup> since 1 <sup>st</sup> January 2018	Must meet requirement	Must meet requirement	Must meet requirement	N/A	Form CON – 2

<sup>3</sup> The Bidder shall provide accurate information on the related Letter of Bid about any litigation or arbitration resulting from contracts completed or ongoing under its execution over the last five years. A consistent history of awards against the Bidder or any member of a joint venture may result in failure of the Bid.

Factor	5.2 HISTORICAL CONTRACT NON-PERFORMANCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.2.5 Bank’s SEA and/or SH Disqualification <sup>4</sup>	At the time of Contract Award, not subject to disqualification by the Bank for non-compliance with SEA/ SH obligations	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Must meet requirement (including each subcontractor proposed by the Bidder)	N/A	Letter of Bid, Form CON-3

Factor	5.3 FINANCIAL SITUATION					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
<b>5.3.1 Historical Financial Performance</b>	Submission of audited balance sheets/ independent financial auditor’s reports or other financial statements/tax reports (e.g. profit/income calculation forms issued to State Revenue committee) acceptable to the Purchaser, for the last three (3) (i.e. 2020, 2021, and 2022) years.	Must meet requirement	N / A	Must meet requirement	N / A	Form FIN – 5.3.1 with attachments
<b>5.3.2 Average Annual Turnover</b>	Minimum average annual turnover of EURO 1,500,000 in any 2 out of the last 3 years (i.e. 2020, 2021, and 2022).	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 5.3.2



Factor	5.3 FINANCIAL SITUATION					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.3.3 Financial Resources	The Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet the following cash-flow requirement: EURO200,000	Must meet requirement	Must meet requirement	N/A	N/A	Form FIN – 5.3.3

Factor	5.4 EXPERIENCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
5.4.1 General Experience	Experience under Information System contracts in the role of prime supplier or management contractor or JV member, or	Must meet requirement	N / A	Must meet requirement	N / A	Form EXP-5.4.1

Factor	5.4 EXPERIENCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
	subcontractor for at least 2 years prior to the applications submission deadline.					
5.4.2 Specific Experience	Participation as a prime supplier or management contractor or JV member or sub-contractor <sup>5</sup> , in at least 1 contract within the last 5 [2018 - 2022] years, that have been successfully and substantially completed. The contract(s) should be in similar nature to the proposed Information System in terms of complexity, methods, and technology comparable to those described in Section VII, the Technical Requirements.  The Bidder MUST provide a copy of the successfully completed similar contract(s) and demonstrate that they have been substantially completed. This shall	Must meet requirement	Must meet requirements	N / A	N / A	Form EXP 5.4.2

<sup>5</sup> If the bidder participated in a joint venture or acted as a sub-contractor in a contract, only their share of the contract value and their role and responsibilities within the contract will be considered to meet the requirement.

Factor	5.4 EXPERIENCE					
Sub-Factor	Criteria					Documentation Required
	Requirement	Bidder				
		Single Entity	Joint Venture (existing or intended)			
			All members combined	Each member	At least one member	
	be documented by an Operational Acceptance Certificate, or any equivalent documentation that is satisfactory to the Purchaser, issued by the purchaser(s).					

## **5.5 Key Personnel**

The Bidder must demonstrate that it will have suitably qualified key personnel. The Bidder shall complete the relevant Forms in Section IV, Bidding Forms.

## **5.6 Subcontractors/vendors/manufacturers N/A**

### **5.7 Manufacturer's authorization**

For all powered (active) hardware and/or software components of the Information System which the Bidder does not itself produce, by submission of documentary evidence in its Bid, the Bidder must establish to the Purchaser's satisfaction that it is not prohibited to supply those components in the Purchaser's country under the Contract(s) that may result from this procurement.

- (i) In the case of proprietary commercial software (i.e., excluding open source or "freeware" software) that the Bidder does not manufacture itself and for which the Bidder has or will establish an Original Equipment Manufacturer (OEM) relationship with the manufacture, the Bidder must provide Manufacture's Authorizations;
- (ii) In the case of proprietary commercial software (i.e., excluding open source or "freeware" software) that the Bidder does not manufacture itself and for which the Bidder does not or will not establish an OEM relationship with the manufacture, the Bidder must document to the Purchaser's satisfaction that the Bidder is not excluded from sourcing these items from the manufacturer's distribution channels and offering these items for supply in the Borrower's Country.
- (iii) In the case of open source software, the Bidder must identify the software item as open source and provide copies of the relevant open source license(s).

The Bidder is responsible for ensuring that the manufacturer or producer complies with the requirements of ITB 4 and ITB 5 and meets the minimum criteria listed above for that item.

### **5.8 Local Representation/ Warranty service center**

Regardless of whether the bidder is conducting business within the Purchaser's country, they must provide documentary evidence in their bid to demonstrate that they have a warranty service center or have plans to establish one. The warranty service center must be equipped and capable of managing the bidder's maintenance, technical support, training, and warranty repair obligations as specified in the Purchaser's Requirements. This includes meeting any response time, problem-resolution norms, or other requirements that may be specified in the Contract. If the bidder does not currently have a warranty service center, they must include details for setting one up as part of their Preliminary Project Plan.

## SECTION IV - BIDDING FORMS

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## Letter of Bid

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

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

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

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

RFB No.: *PSMP4-GO-RFB-3.3*

Alternative No.: *not applicable*

We, the undersigned, declare that:

**To: The State Revenue Committee of the Republic of Armenia and the Office of the Prime-Minister of the Republic of Armenia**

- (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-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 (v) 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 provide design, supply and installation services in conformity with the bidding document of the following: *[insert a brief description of the IS Design, Supply and Installation Services]*;

(f) **Bid Price:** The total price of our Bid, excluding any discounts offered in item (f) below is: *[Insert one of the options below as appropriate]*

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

(g) **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]*;

(h) **Bid Validity:** Our Bid shall be valid until *[insert day, month and year in accordance with ITB 19.1]*, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(i) **Performance Security:** If our Bid is accepted, we commit to obtain a Performance Security in accordance with the bidding document;

(j) **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, and meet the requirements of ITB 4.3, other than alternative Bids submitted in accordance with ITB 13;

(k) **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;

(l) **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]*;

(m) **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.”]*

- (n) **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;
- (o) **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
- (p) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf engages in any type of Fraud and Corruption.

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

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

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

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

Date signed *[insert number]* day of *[insert month]*, *[insert year]*

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

\*\*: Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid



## PRICE SCHEDULE FORMS

### Notes to Bidders on working with the Price Schedules

---

#### General

1. The Price Schedules are divided into separate Schedules as follows:
  - 3.1 Grand Summary Cost Table
  - 3.2 Supply and Installation Cost Summary Table
  - 3.3 Recurrent Cost Summary Table – **not applicable**
  - 3.4 Supply and Installation Cost Sub-Table(s) -**not applicable**
  - 3.5 Recurrent Cost Sub-Tables(s)- **not applicable**
  - 3.6 Country of Origin Code Table
2. The Schedules do not generally give a full description of the information technologies to be supplied, installed, and operationally accepted, or the Services to be performed under each item. However, it is assumed that Bidders shall have read the Technical Requirements and other sections of these bidding documents to ascertain the full scope of the requirements associated with each item prior to filling in the rates and prices. The quoted rates and prices shall be deemed to cover the full scope of these Technical Requirements, as well as overhead and profit.
3. If Bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with the Instructions to Bidders in the bidding documents prior to submitting their bid.

#### Pricing

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder. As specified in the Bid Data Sheet, prices shall be fixed and firm for the duration of the Contract.
5. Bid prices shall be quoted in the manner indicated and in the currencies specified in ITB 18.1 and ITB 18.2. Prices must correspond to items of the scope and quality defined in the Technical Requirements or elsewhere in these bidding documents.
6. The Bidder must exercise great care in preparing its calculations, since there is no opportunity to correct errors once the deadline for submission of bids has passed. A single error in specifying a unit price can therefore change a Bidder's overall total bid price substantially, make the bid noncompetitive, or subject the Bidder to possible loss. The Purchaser will correct any arithmetic error in accordance with the provisions of ITB 32.
7. Payments will be made to the Supplier in the currency or currencies indicated under each respective item. As specified in ITB 18.2, no more than three foreign currencies may be used.

### 3.1 Grand Summary Cost Table

		<i>[ insert: <b>Local Currency</b> ] Price</i>	<i>[ insert: <b>Foreign Currency A</b> ] Price</i>	<i>[ insert: <b>Foreign Currency B</b> ] Price</i>	<i>[ insert: <b>Foreign Currency C</b> ] Price</i>
1.	Supply and Installation Costs for Information System/Software (from Supply and Installation Cost Summary Table 3.2)				
2.	Grand Totals (to Bid Submission Form)				

Name of Bidder:		
Authorized Signature of Bidder:		

### 3.2 Supply and Installation Cost Summary Table

Costs MUST reflect prices and rates quoted in accordance with ITB 17 and 18.

Line Item No.	Subsystem / Item	Supply & Installation Prices				
		Locally supplied items	Items supplied from outside the Purchaser's Country			
		[ insert: <i>Local Currency</i> ] Price	[ insert: <i>Local Currency</i> ] Price	[ insert: <i>Foreign Currency A</i> ]/Price	[ insert: <i>Foreign Currency B</i> ]/Price	[ insert: <i>Foreign Currency C</i> ]/Price
0	Project Plan	--	--	--	--	--
1	<b>PHASE 1</b> <b>Developing technical documentation of the system</b>	--	--	--	--	--
1.1	Preparing of Data Management and Analysis System (DMAS) Detailed Functional Requirements					
1.2	Security System Detailed Functional Requirements					
	<b>Subtotal Phase 1</b>					
2.	<b>PHASE 2</b> <b>Development of Data Management and Analysis System</b>	--	--	--	--	--
2.1	Development of Security Subsystem					
2.2	Testing of Security Subsystem					
2.3	Development of Data Cleansing Subsystem					

		<b>Supply &amp; Installation Prices</b>				
		<b>Locally supplied items</b>	<b>Items supplied from outside the Purchaser's Country</b>			
<b>Line Item No.</b>	<b>Subsystem / Item</b>	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Foreign Currency A/Price</i>	<i>[ insert: Foreign Currency B/Price</i>	<i>[ insert: Foreign Currency C/Price</i>
2.4	Development of Hardware Administration System					
2.5	Development of Software Administration System					
2.6	Development of Object Management System					
2.7	Development of Big Data Processing and Integration Subsystem					
2.8	Testing of Hardware Administration System					
2.9	Testing of Software Administration System					
2.10	Testing of Object Management System					
2.11	Testing of Big Data Processing and Integration Subsystem					
2.12	End-to-End Acceptance testing of Phase 2 Data Management and Analysis System					
	<b>Subtotal Phase 2</b>					
3	<b>PHASE 3 Development of Operations Management Subsystem (including Adaptive Machine Learning and Artificial Intelligence Subsystem)</b>	--	--	--	--	--

		<b>Supply &amp; Installation Prices</b>				
		<b>Locally supplied items</b>	<b>Items supplied from outside the Purchaser's Country</b>			
<b>Line Item No.</b>	<b>Subsystem / Item</b>	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Foreign Currency A/Price</i>	<i>[ insert: Foreign Currency B/Price</i>	<i>[ insert: Foreign Currency C/Price</i>
3.1	Development of Operations Management Subsystem					
3.2	Development of Adaptive Machine Learning and Artificial Intelligence Subsystem					
3.3	Testing of Operations Management Subsystem					
3.4	Testing of Adaptive Machine Learning and Artificial Intelligence Subsystem					
	<b>Subtotal Phase 3</b>					
<b>4</b>	<b>PHASE 4 Development of BI Subsystem</b>	--	--	--	--	--
4.1	Development of BI subsystem					
4.2	Testing of BI subsystem					
	<b>Subtotal Phase 4</b>					
<b>5</b>	<b>PHASE 5 Production Installation of Data Management and Analysis System</b>	--	--	--	--	--
5.1	Production installation of Data Management system					

		<b>Supply &amp; Installation Prices</b>				
		<b>Locally supplied items</b>	<b>Items supplied from outside the Purchaser's Country</b>			
<b>Line Item No.</b>	<b>Subsystem / Item</b>	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Local Currency ]</i> Price	<i>[ insert: Foreign Currency A/Price</i>	<i>[ insert: Foreign Currency B/Price</i>	<i>[ insert: Foreign Currency C/Price</i>
5.2	End-to-End Quality Assurance of the Core System					
5.3	User Trainings					
5.4	Technical Documents and Source Codes					
	<b>Subtotal Phase 5</b>					
<b>6.</b>	Operational Acceptance of the System as an integrated whole					
<b>TOTAL (To Grand Summary Table)</b>						

**Note:** “- -” indicates not applicable.

Name of Bidder:		
Authorized Signature of Bidder:		

**3.3 Recurrent Cost Summary Table –**

**Not applicable**

**3.4 Supply and Installation Cost Sub-Table**

**Not applicable**

**3.5 Recurrent Cost Sub-Table –**

**Not applicable**

### 3.6 Country of Origin Code Table

[illegible]



## FORM ELI 5.1.1- BIDDER INFORMATION FORM

*[Note: 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.: **not applicable**

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

1. Bidder's Name <i>[insert <b>Bidder's legal name</b>]</i>
2. In case of JV, legal name of each member : <i>[insert <b>legal name of each member in JV</b>]</i>
3. Bidder's actual or intended country of registration: <i>[insert <b>actual or intended country of registration</b>]</i>
4. Bidder's year of registration: <i>[insert <b>Bidder's year of registration</b>]</i>
5. Bidder's Address in country of registration: <i>[insert <b>Bidder's legal address in country of registration</b>]</i>
6. Bidder's Authorized Representative Information  Name: <i>[insert <b>Authorized Representative's name</b>]</i> Address: <i>[insert <b>Authorized Representative's Address</b>]</i> Telephone/Fax numbers: <i>[insert <b>Authorized Representative's telephone/fax numbers</b>]</i> Email Address: <i>[insert <b>Authorized Representative's email address</b>]</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"> <li>• Legal and financial autonomy</li> <li>• Operation under commercial law</li> </ul>

- Establishing that the Bidder is not under the supervision of the Purchaser
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. *[If required under BDS ITB 47.1, the successful Bidder shall provide additional information on beneficial ownership, using the Beneficial Ownership Disclosure Form.]*

## FORM ELI 5.1.2- BIDDER'S JV MEMBERS INFORMATION FORM

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

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

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

Alternative No.: **not applicable**

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

1. Bidder's Name: <i>[insert <b>Bidder's legal name</b>]</i>
2. Bidder's JV Member's name: <i>[insert <b>JV's Member legal name</b>]</i>
3. Bidder's JV Member's country of registration: <i>[insert <b>JV's Member country of registration</b>]</i>
4. Bidder's JV Member's year of registration: <i>[insert <b>JV's Member year of registration</b>]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert <b>JV's Member legal address in country of registration</b>]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert <b>name of JV's Member authorized representative</b>]</i> Address: <i>[insert <b>address of JV's Member authorized representative</b>]</i> Telephone/Fax numbers: <i>[insert <b>telephone/fax numbers of JV's Member authorized representative</b>]</i> Email Address: <i>[insert <b>email address of JV's Member authorized representative</b>]</i>

7. Attached are copies of original documents of *[check the box(es) of the attached original documents]*
- ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.4.
  - ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and they are not under the supervision of the Purchaser in accordance with ITB 4.6.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership. *[If required under BDS ITB 47.1, the successful Bidder shall provide additional information on beneficial ownership for each JV member using the Beneficial Ownership Disclosure Form.]*

## FORM CON – 2- HISTORICAL CONTRACT NON-PERFORMANCE, PENDING LITIGATION AND LITIGATION HISTORY

In case a prequalification process was conducted this form should be used only if the information submitted at the time of prequalification requires updating

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert date]*

JV member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Non-Performed Contracts in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> Contract non-performance did not occur since 1 <sup>st</sup> January 2020 specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 5.2.1. <input type="checkbox"/> Contract(s) not performed since 1 <sup>st</sup> January 2020 specified in Section III, Evaluation and Qualification Criteria, requirement 5.2.1			
Year	Non-performed portion of contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and US\$ equivalent)
<i>[insert year]</i>	<i>[insert amount and percentage]</i>	Contract Identification: <i>[indicate complete contract name/ number, and any other identification]</i> Name of Employer: <i>[insert full name]</i> Address of Employer: <i>[insert street/city/country]</i> Reason(s) for nonperformance: <i>[indicate main reason(s)]</i>	<i>[insert amount]</i>
Pending Litigation, in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No pending litigation in accordance with Sub-Factor 5.2.3. <input type="checkbox"/> Pending litigation in accordance with Sub-Factor 5.2.3 as indicated below.			

<b>Year of dispute</b>	<b>Amount in dispute (currency)</b>	<b>Contract Identification</b>	<b>Total Contract Amount (currency), USD Equivalent (exchange rate)</b>
<i>[specify year]</i>	<i>[specify amount and currency]</i>	Contract Identification: <i>[insert Contract ID]</i> Name of Employer: <i>[insert Name of Employer]</i> Address of Employer: <i>[insert Address of Employer]</i> Matter in dispute: <i>[describe Matter of dispute]</i> Party who initiated the dispute: <i>[specify Initiator of dispute]</i> Status of dispute: <i>[specify Status of dispute]</i>	<i>[specify total contract amount and currency, USD equivalent and exchange rate]</i>
<i>[specify year]</i>	<i>[specify amount and currency]</i>	Contract Identification: <i>[insert Contract ID]</i> Name of Employer: <i>[insert Name of Employer]</i> Address of Employer: <i>[insert Address of Employer]</i> Matter in dispute: <i>[describe Matter of dispute]</i> Party who initiated the dispute: <i>[specify Initiator of dispute]</i> Status of dispute: <i>[specify Status of dispute]</i>	<i>[specify total contract amount and currency, USD equivalent and exchange rate]</i>
Litigation History in accordance with Section III, Evaluation and Qualification Criteria			
<input type="checkbox"/> No Litigation History in accordance with Sub-Factor 5.2.4. <input type="checkbox"/> Litigation History in accordance with Sub-Factor 5.2.4 as indicated below.			
<b>Year of award</b>	<b>Outcome as percentage of Net Worth</b>	<b>Contract Identification</b>	<b>Total Contract Amount (currency), USD Equivalent (exchange rate)</b>
<i>[specify year]</i>	<i>[specify percentage of net worth]</i>	Contract Identification: <i>[insert Contract ID]</i> Name of Employer: <i>[insert Name of Employer]</i> Address of Employer: <i>[insert Address of Employer]</i>	<i>[specify total contract amount and currency, USD equivalent and exchange rate]</i>

## FORM CON – 3

### 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

<b>SEA and/or SH Declaration</b> <b>in accordance with Section III, Qualification Criteria, and Requirements</b>
<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><b><i>[If (c) above is applicable, attach evidence of an arbitral award reversing the findings on the issues underlying the disqualification.]</i></b></p>

## FORM EXP 5.4.1- GENERAL EXPERIENCE

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Starting Month / Year	Ending Month / Year	Contract Identification	Role of Bidder
<i>[insert month / year]</i>	<i>[insert month / year]</i>	Contract name: <i>[insert Name of Contract ]</i> Brief Description of the Information System performed by the Bidder: <i>[describe Information System]</i> Name of Purchaser: <i>[insert Name of Purchaser ]</i> Address: <i>[insert Address of Purchaser ]</i>	<i>[describe role of Bidder under the contract]</i>  <i>[insert "Prime Contractor" or "JV Member" or "Sub-contractor" or "Management Contractor"]</i>
<i>[insert month / year]</i>	<i>[insert month / year]</i>	Contract name: <i>[insert Name of Contract ]</i> Brief Description of the Information System performed by the Bidder: <i>[describe Information System]</i> Name of Purchaser: <i>[insert Name of Purchaser ]</i> Address: <i>[insert Address of Purchaser ]</i>	<i>[describe role of Bidder under the contract]</i> <i>[insert "Prime Contractor" or "JV Member" or "Sub-contractor" or "Management Contractor"]</i>
<i>[insert month / year]</i>	<i>[insert month / year]</i>	Contract name: <i>[insert Name of Contract ]</i> Brief Description of the Information System performed by the Bidder: <i>[describe Information System]</i> Name of Purchaser: <i>[insert Name of Purchaser ]</i> Address: <i>[insert Address of Purchaser ]</i>	<i>[describe role of Bidder under the contract]</i> <i>[insert "Prime Contractor" or "JV Member" or "Sub-contractor" or "Management Contractor"]</i>
<i>[insert month / year]</i>	<i>[insert month / year]</i>	Contract name: <i>[insert Name of Contract ]</i> Brief Description of the Information System performed by the Bidder: <i>[describe Information System]</i> Name of Purchaser: <i>[insert Name of Purchaser ]</i> Address: <i>[insert Address of Purchaser ]</i>	<i>[describe role of Bidder under the contract]</i>  <i>[insert "Prime Contractor" or "JV Member" or "Sub-contractor" or "Management Contractor"]</i>

\*List calendar year for years with contracts with at least nine (9) months activity per year starting with the earliest year



## FORM EXP – 5.4.2- SPECIFIC EXPERIENCE

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

<b>Similar Contract Number: ____ of ____ required.</b>	<b>Information</b>		
Contract Identification	<i>[insert Contract ID]</i>		
Award date	<i>[insert Date of Award]</i>		
Completion date	<i>[insert Date of Completion]</i>		
Role in Contract	<input type="checkbox"/> Prime Supplier	<input type="checkbox"/> Management Contractor	<input type="checkbox"/> Subcontractor
Total contract amount			
If member in a JV or subcontractor, specify participation of total contract amount			
Purchaser's Name:	_____		
Address:	_____		
Telephone/fax number:	_____		
E-mail:	_____		

## FORM EXP – 5.4.2 (CONT.)- SPECIFIC EXPERIENCE (CONT.)

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

<b>Similar Contract No. <i>[insert specific number]</i> of <i>[insert total number of contracts]</i> required</b>	<b>Information</b>
Description of the similarity in accordance with Sub-Factor 5.4.2 of Section III:	
Amount	<i>[insert contract amount and currency and USD equivalent and exchange rate]</i>
Geographical Scope	<i>[describe geographic scope of the users of the information system]</i>
Functional Scope	<i>[describe the functionalities provided by the information system]</i>
Methods/Technology	<i>[describe methodologies and technologies used to implement the information system]</i>
Key Activities	<i>[describe the key activities of the Bidder under the contract]</i>

## FORM CCC- SUMMARY SHEET: CURRENT CONTRACT COMMITMENTS / WORK IN PROGRESS

*[Bidders and each partner to an Joint Venture bid should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.]*

Bidder's Legal Name: *[insert **Bidder's Legal Name**]*

Date: *[insert **Date**]*

JV Member Legal Name: *[insert **JV Member Legal Name**]*

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

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

Name of contract	Purchaser, contact address/tel./fax	Value of outstanding Information System (current US\$ equivalent)	Estimated completion date	Average monthly invoicing over last six months (US\$ equivalent/month)
1. <i>[insert <b>Name of Contract</b>]</i>	<i>[insert <b>Name of Purchaser, contact address, telephone / fax number</b>]</i>	<i>[insert <b>Total Outstanding Contract Value of the information system in USD equivalent and exchange rate</b>]</i>	<i>[insert <b>Estimated completion date</b>]</i>	<i>[insert <b>Average monthly invoices in USD equivalent and exchange rate</b>]</i>
2. <i>[insert <b>Name of Contract</b>]</i>	<i>[insert <b>Name of Purchaser, contact address, telephone / fax number</b>]</i>	<i>[insert <b>Total Outstanding Contract Value of the information system in USD equivalent and exchange rate</b>]</i>	<i>[insert <b>Estimated completion date</b>]</i>	<i>[insert <b>Average monthly invoices in USD equivalent and exchange rate</b>]</i>
3. <i>[insert <b>Name of Contract</b>]</i>	<i>[insert <b>Name of Purchaser, contact address, telephone / fax number</b>]</i>	<i>[insert <b>Total Outstanding Contract Value of the information system in USD equivalent and exchange rate</b>]</i>	<i>[insert <b>Estimated completion date</b>]</i>	<i>[insert <b>Average monthly invoices in USD equivalent and exchange rate</b>]</i>
...				

## FORM FIN – 5.3.1- FINANCIAL SITUATION: HISTORICAL FINANCIAL PERFORMANCE

To be completed by the Bidder and, if JV, by each member

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Financial information in US\$ equivalent	Historic information for previous <i>[insert number]</i> years						
	(US\$ equivalent in 000s)						
	Year 1	Year 2	Year 3	Year ...	Year n	Avg.	Avg. Ratio
<b>Information from Balance Sheet</b>							
<b>Total Assets (TA)</b>							
<b>Total Liabilities (TL)</b>							
<b>Net Worth (NW)</b>							
<b>Current Assets (CA)</b>							
<b>Current Liabilities (CL)</b>							
<b>Information from Income Statement</b>							
<b>Total Revenue (TR)</b>							
<b>Profits Before Taxes (PBT)</b>							

Attached are copies of financial statements (balance sheets, including all related notes, and income statements) for the years required above complying with the following conditions:

- (a) Must reflect the financial situation of the Bidder or member to a JV, and not sister or parent companies
- (b) Historic financial statements must be audited by a certified accountant
- (c) Historic financial statements must be complete, including all notes to the financial statements

- (d) Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted)

## FORM FIN – 5.3.2- AVERAGE ANNUAL TURNOVER

*[To be completed by the Bidder and, if JV, by each member]*

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

<b>Annual turnover data (applicable activities only)</b>		
<b>Year</b>	<b>Amount and Currency</b>	<b>US\$ equivalent</b>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<i>[insert year]</i>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>
<b>*Average Annual Turnover</b>	<i>[insert amount and currency]</i>	<i>[insert amount in USD equivalent and exchange rate]</i>

\*Average annual turnover calculated as total certified payments received for work in progress or completed, divided by the number of years specified in Section III, Evaluation and Qualification Criteria, Sub-Factor 5.3.2.

## FORM FIN 5.3.3- FINANCIAL RESOURCES

*To be completed by the Bidder and, if JV, by each member*

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total cash flow demands of the subject contract or contracts as indicated in Section III, Evaluation and Qualification Criteria

Source of financing	Amount (US\$ equivalent)
1. <i>[describe type and source of available financing]</i>	<i>[insert amount of available financing in USD equivalent and exchange rate]</i>
2. <i>[describe type and source of available financing]</i>	<i>[insert amount of available financing in USD equivalent and exchange rate]</i>
3. <i>[describe type and source of available financing]</i>	<i>[insert amount of available financing in USD equivalent and exchange rate]</i>
4. <i>[describe type and source of available financing]</i>	<i>[insert amount of available financing in USD equivalent and exchange rate]</i>

## PERSONNEL CAPABILITIES- KEY PERSONNEL

*To be completed by the Bidder and, if JV, by each member*

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Bidders should provide the names and details of the suitably qualified Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

### Key Personnel

1.	Title of position: <i>[insert Title of position / role in team]</i>	
	Name of candidate: <i>[insert Name of Candidate]</i>	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
2.	Title of position: <i>[insert Title of position / role in team]</i>	
	Name of candidate: <i>[insert Name of Candidate]</i>	
	Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
	Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
	Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>
3.	Title of position: <i>[insert Title of position / role in team]</i>	



Name of candidate: <i>[insert Name of Candidate]</i>	
Duration of appointment:	<i>[insert the whole period (start and end dates) for which this position will be engaged]</i>
Time commitment: for this position:	<i>[insert the number of days/week/months/ that has been scheduled for this position]</i>
Expected time schedule for this position:	<i>[insert the expected time schedule for this position (e.g. attach high level Gantt chart)]</i>

## Candidate Summary

*To be completed by the Bidder and, if JV, by each member*

Bidder's Legal Name: *[insert Bidder's Legal Name]*

Date: *[insert Date]*

JV Member Legal Name: *[insert JV Member Legal Name]*

RFB No.: *[insert RFB number]*

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

Position; <i>[insert Title of Position]</i>		Prime <input type="checkbox"/> Alternate
Candidate information	Name of candidate <i>[insert Name Candidate]</i>	Date of birth <i>[insert Date of Birth]</i>
Professional qualifications <i>[describe Professional qualifications]</i>		
Present employment	Name of Employer <i>[insert Name of Present Employer]</i>	
Address of Employer <i>[insert Address of Present Employer]</i>		
Telephone <i>[insert Telephone of Contact]</i>		Contact (manager / personnel officer) <i>[insert Name]</i>
Fax <i>[insert fax of Contact]</i>		email <i>[insert email of Contact]</i>
Job title of candidate <i>[insert Job Title Candidate]</i>		Years with present Employer <i>[insert Number of years]</i>

Summarize professional experience over the last twenty years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

From	To	Company/Project/ Position/Relevant technical and management experience
<i>[insert year]</i>	<i>[insert year]</i>	<i>[describe experience relevant to the proposed Contract under the RFB]</i>
<i>[insert year]</i>	<i>[insert year]</i>	<i>[describe experience relevant to the proposed Contract under the RFB]</i>
<i>[insert year]</i>	<i>[insert year]</i>	<i>[describe experience relevant to the proposed Contract under the RFB]</i>
<i>[insert year]</i>	<i>[insert year]</i>	<i>[describe experience relevant to the proposed Contract under the RFB]</i>

## CODE OF CONDUCT FOR SUPPLIER'S PERSONNEL FORM

***Note to the Bidder:***

***The minimum content of the Code of Conduct form as set out by the Purchaser shall not be substantially modified. However, the Bidder may add requirements as appropriate, including to take into account Contract-specific issues/risks.***

***The Bidder shall initial and submit the Code of Conduct form as part of its bid.***

### CODE OF CONDUCT FOR SUPPLIER'S PERSONNEL

We are the Supplier, [enter name of Supplier]. We have signed a contract with [enter name of Purchaser] for [enter description of the Information System]. The Information System will be supplied to and installed at [enter the Project Site/s]. Our contract requires us to implement measures to address environmental and social risks.

This Code of Conduct identifies the behavior that we require from Supplier's Personnel employed in the execution of the Contract at the Project Site/s.

Our workplace is an environment where unsafe, offensive, abusive or violent behavior will not be tolerated and where all persons should feel comfortable raising issues or concerns without fear of retaliation.

### REQUIRED CONDUCT

Supplier's Personnel employed in the execution of the Contract at the Project Site/s shall:

1. carry out his/her duties competently and diligently;
2. comply with this Code of Conduct and all applicable laws, regulations and other requirements, including requirements to protect the health, safety and well-being of other Supplier's Personnel and any other person;
3. maintain a safe working environment including by:
  - a. ensuring that workplaces, machinery, equipment and processes under each person's control are safe and without risk to health;
  - b. wearing required personal protective equipment;
  - c. using appropriate measures relating to chemical, physical and biological substances and agents; and
  - d. following applicable emergency operating procedures.

4. report work situations that he/she believes are not safe or healthy and remove himself/herself from a work situation which he/she reasonably believes presents an imminent and serious danger to his/her life or health;
5. treat other people with respect, and not discriminate against specific groups such as women, people with disabilities, migrant workers or children;
6. not engage in any form of sexual harassment including unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature with other Supplier's or Purchaser's Personnel;
7. not engage in Sexual Exploitation, which means any actual or attempted abuse of position of vulnerability, differential power or trust, for sexual purposes, including, but not limited to, profiting monetarily, socially or politically from the sexual exploitation of another;
8. not engage in Sexual Abuse, which means the actual or threatened physical intrusion of a sexual nature, whether by force or under unequal or coercive conditions;
9. not engage in any form of sexual activity with individuals under the age of 18, except in case of pre-existing marriage;
10. complete relevant training courses that will be provided related to the environmental and social aspects of the Contract, including on health and safety matters, and Sexual Exploitation and Abuse, and Sexual Harassment (SH);
11. report violations of this Code of Conduct; and
12. not retaliate against any person who reports violations of this Code of Conduct, whether to us or the Purchaser, or who makes use of the grievance mechanism for Supplier's Personnel or the project's Grievance Redress Mechanism.

## **RAISING CONCERNS**

If any person observes behavior that he/she believes may represent a violation of this Code of Conduct, or that otherwise concerns him/her, he/she should raise the issue promptly. This can be done in either of the following ways:

1. Contact [*enter name of the Supplier's Social Expert with relevant experience in handling sexual exploitation, sexual abuse and sexual harassment cases, or if such person is not required under the Contract, another individual designated by the Supplier to handle these matters*] in writing at this address [ ] or by telephone at [ ] or in person at [ ]; or
2. Call [ ] to reach the Supplier's hotline (*if any*) and leave a message.

The person's identity will be kept confidential, unless reporting of allegations is mandated by the country law. Anonymous complaints or allegations may also be submitted and will be given all due and appropriate consideration. We take seriously all reports of possible misconduct and will investigate and take appropriate action. We will provide warm referrals to service providers that may help support the person who experienced the alleged incident, as appropriate.

There will be no retaliation against any person who raises a concern in good faith about any behavior prohibited by this Code of Conduct. Such retaliation would be a violation of this Code of Conduct.

### **CONSEQUENCES OF VIOLATING THE CODE OF CONDUCT**

Any violation of this Code of Conduct by the Supplier's Personnel may result in serious consequences, up to and including termination and possible referral to legal authorities.

#### **FOR SUPPLIER'S PERSONNEL:**

I have received a copy of this Code of Conduct written in a language that I comprehend. I understand that if I have any questions about this Code of Conduct, I can contact [*enter name of Supplier's contact person(s) with relevant experience*] requesting an explanation.

Name of Supplier's Personnel: [*insert name*]

Signature: \_\_\_\_\_

Date: (day month year): [*insert date*]

Countersignature of authorized representative of the Supplier:

Signature: \_\_\_\_\_

Date: (day month year): [*insert date*]

**ATTACHMENT 1:** Behaviors constituting SEA and behaviors constituting SH

## **ATTACHMENT 1 TO THE CODE OF CONDUCT FORM**

### **BEHAVIORS CONSTITUTING SEXUAL EXPLOITATION AND ABUSE (SEA) AND BEHAVIORS CONSTITUTING SEXUAL HARASSMENT (SH)**

The following non-exhaustive list is intended to illustrate types of prohibited behaviors.

**(1) Examples of sexual exploitation and abuse** include, but are not limited to:

- A Supplier's Personnel tells a member of the community that he/she can get them jobs related to the project site in exchange for sex.
- A Supplier's Personnel rapes, or otherwise sexually assaults a member of the community.
- A Supplier's Personnel denies a person access to the Project Site/s unless he/she performs a sexual favor.
- A Supplier's Personnel tells a person applying for employment under the Contract that he/she will only hire him/her if he/she has sex with him/her.

**(2) Examples of sexual harassment in a work context**

- A Supplier's Personnel comment on the appearance of another Supplier's Personnel (either positive or negative) and sexual desirability.
- When a Supplier's Personnel complains about comments made by another Supplier's Personnel on his/her appearance, the other Supplier's Personnel comment that he/she is "asking for it" because of how he/she dresses.
- Unwelcome touching of a Supplier's Personnel or Purchaser's Personnel by another Supplier's Personnel.
- A Supplier's Personnel tells another Supplier's Personnel that he/she will get him/her a salary raise, or promotion if he/she sends him/her naked photographs of himself/herself.

## TECHNICAL CAPABILITIES

*[Note: To be completed by the Bidder and, if JV, by each member]*

Bidder's Legal Name: *[insert **Bidder's Legal Name**]*

Date: *[insert **Date**]*

JV Member Legal Name: *[insert **JV Member Legal Name**]*

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

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

The Bidder shall provide adequate information to demonstrate clearly that it has the technical capability to meet the requirements for the Information System. The Bidder should summarize important certifications, proprietary methodologies, and/or specialized technologies that the Bidder proposes to utilize in the execution of the Contract or Contracts.

## MANUFACTURER’S AUTHORIZATION

*[Note: This authorization should be written on the letterhead of the Manufacturer and be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]*

Invitation for Bids Title and No.: *[Purchaser insert: **RFB Title and Number**]*

To: *[Purchaser insert: **Purchaser’s Officer to receive the Manufacture’s Authorization**]*

WHEREAS *[ insert: **Name of Manufacturer** ]* who are official producers of *[ insert: **items of supply by Manufacturer** ]* and having production facilities at *[ insert: **address of Manufacturer** ]* do hereby authorize *[ insert: **name of Bidder or Joint Venture** ]* located at *[ insert: **address of Bidder or Joint Venture** ]* (hereinafter, the “Bidder”) to submit a bid and subsequently negotiate and sign a Contract with you for resale of the following Products produced by us:

We hereby confirm that, in case the bidding results in a Contract between you and the Bidder, the above-listed products will come with our full standard warranty.

Name *[insert: **Name of Officer**]* in the capacity of *[insert: **Title of Officer**]*

Signed \_\_\_\_\_

Duly authorized to sign the authorization for and on behalf of: *[ insert: **Name of Manufacturer** ]*

Dated this *[ insert: **ordinal** ]* day of *[ insert: **month** ]*, *[ insert: **year** ]*.

*[add Corporate Seal (where appropriate)]*



## SUBCONTRACTOR'S AGREEMENT

**Note:** *This agreement should be written on the letterhead of the Subcontractor and be signed by a person with the proper authority to sign documents that are binding on the Subcontractor.*

Invitation for Bids Title and No.: *[Purchaser insert: **RFB Title and Number**]*

To: *[Purchaser insert: **Purchaser's Officer to receive the Subcontractor's Agreement**]*

WHEREAS *[ insert: **Name of Subcontractor** ]*, having head offices at *[ insert: **address of Subcontractor** ]*, have been informed by *[ insert: **name of Bidder or Joint Venture** ]* located at *[ insert: **address of Bidder or Joint Venture** ]* (hereinafter, the "Bidder") that it will submit a bid in which *[ insert: **Name of Subcontractor** ]* will provide *[ insert: **items of supply or services provided by the Subcontractor** ]*. We hereby commit to provide the above named items, in the instance that the Bidder is awarded the Contract.

Name *[insert: **Name of Officer**]* in the capacity of *[insert: **Title of Officer**]*

Signed \_\_\_\_\_

Duly authorized to sign the authorization for and on behalf of: *[insert: **Name of Subcontractor**]*

Dated this *[ insert: **ordinal** ]* day of *[ insert: **month** ]*, *[ insert: **year** ]*.

[add Corporate Seal (where appropriate)]



## INTELLECTUAL PROPERTY FORMS

### **Notes to Bidders on working with the Intellectual Property Forms**

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In accordance with ITB 11.1(j), Bidders must submit, as part of their bids, lists of all the Software included in the bid assigned to one of the following categories: (a) System, General-Purpose, or Application Software; (b) Standard or Custom Software; (c) Proprietary or Open Source. Bidders must also submit a list of all Custom Materials. These categorizations are needed to support the Intellectual Property in the GCC and SCC. The Bidder must also include the text of the software licenses for the software titles proposed.

### Software List

	(select one per title)			(select one per title)		(select one per title)	
Title	System	General-Purpose	Application	Standard	Custom	Proprietary	Open Source
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							

**Attachments:** Proposed Software Licenses

**List of Custom Materials**

Custom Materials
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>

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## **CONFORMANCE OF INFORMATION SYSTEM MATERIALS**

## Format of the Technical Bid

In accordance with ITB 16.2, the documentary evidence of conformity of the Information System to the bidding documents includes (but is not restricted to):

- (a). The Bidder's Preliminary Project Plan, including, but not restricted, to the topics specified in the BDS ITB 16.2. The Preliminary Project Plan should also state the Bidder's assessment of the major responsibilities of the Purchaser and any other involved third parties in System supply and installation, as well as the Bidder's proposed means for coordinating activities by each of the involved parties to avoid delays or interference.
- (b). A written confirmation by the Bidder that, if awarded the Contract, it shall accept responsibility for successful integration and interoperability of all the proposed Information Technologies included in the System, as further specified in the Technical Requirements.
- (c). Item-by-Item Commentary on the Technical Requirements demonstrating the substantial responsiveness of the overall design of the System and the individual Information Technologies, Goods, and Services offered to those Technical Requirements.

In demonstrating the responsiveness of its bid, the Bidder must use the Technical Responsiveness Checklist (Format1) and Technical Responsiveness Checklist (Format2). Failure to do so increases significantly the risk that the Bidder's Technical Bid will be declared technically non-responsive. Among other things, the checklist should contain explicit cross-references to the relevant pages in supporting materials included the Bidder's Technical Bid.

- (d). As a Part of the technical bid the Bidder MUST present a detailed description of the Bidder's proposed technical solution conforming in all material aspects with the Technical Requirements (Section VII) and other parts of these Bidding Documents, overall as well as in regard to the essential technical and performance characteristics of each component making up the proposed Information System.

**Note:** The Technical Requirements are voiced as requirements of the *Supplier* and/or the *System*. The Bidder's response must provide clear evidence for the evaluation team to assess the credibility of the response. A response of "yes" or "will do" is unlikely to convey the credibility of the response. The Bidder should indicate *that* – and to the greatest extent practical – *how* the Bidder would comply with the requirements if awarded the contract. Whenever the technical requirements relate to feature(s) of existing products (e.g., hardware or software), the features should be described and the relevant product literature referenced. When the technical requirements relate to professional services (e.g., analysis, configuration, integration, training, etc.) some effort should be expended to describe how they would be rendered – not just a commitment to perform the [cut-and-paste] requirement. Whenever a technical

requirement is for the Supplier to provide certifications (e.g., ISO 9001), copies of these certifications must be included in the Technical Bid.

**Note:** The Manufacturer's Authorizations (and any Subcontractor Agreements) are to be included in Attachment 2 (Bidder Qualifications), in accordance with and ITB 15.

**Note:** As a matter of practice, the contract cannot be awarded to a Bidder whose Technical Bid deviates (materially) from the Technical Requirements – *on any Technical Requirement*. Such deviations include omissions (e.g., non-responses) and responses that do not meet or exceed the requirement. Extreme care must be exercised in the preparation and presentation of the responses to all the Technical Requirements.

(e). Supporting materials to underpin the Item-by-item Commentary on the Technical Requirements (e.g., product literature, white-papers, narrative descriptions of technical approaches to be employed, etc.). 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.

**Note:** To facilitate bid evaluation and contract award, Bidders encouraged to provide electronic copies of their Technical Bid – preferably in a format that the evaluation team can extract text from to facilitate the bid clarification process and to facilitate the preparation of the Bid Evaluation Report.



### Technical Responsiveness Checklist (Format1)

Number	Description	Mandatory (M)/ Preferred (P)	Bidder's technical reasons supporting compliance:	Bidder's cross references to supporting information in Technical Bid:
GTR1	General Technical Requirements			
GTR1-001	Hardware/software compatibility (It is necessary to specify what technical resources are needed to run this system in a real environment (RAM, CPU, DISK))	M		
GTR1-002	Databases (compatibility). Tax systems in RA SRC work on Oracle 11.2.0.4.0 database, the proposed solution must be compatible with the specified database or its later updated version.	M		
AI&MLSWD	AI&ML Software Development Requirements			
AI&MLSWD1	Preparation of the User Manual	P		
AI&MLSWD2	The Data Management and Analysis System	M		
AI&MLSWD3	Software Administration Subsystem	M		
AI&MLSWD4	Hardware Administration Subsystem	M		
AI&MLSWD5	Object Management Subsystem	M		
AI&MLSWD6	Operations Management Subsystem	M		
AI&MLSWD7	Adaptive Machine Learning and Artificial Intelligence Subsystem	M		

<b>Number</b>	<b>Description</b>	<b>Mandatory (M)/ Preferred (P)</b>	<b>Bidder's technical reasons supporting compliance:</b>	<b>Bidder's cross references to supporting information in Technical Bid:</b>
AI&MLSWD8	Big Data Processing and Integration Subsystem	M		
AI&MLSWD9	Business Intelligence Subsystem	M		
AI&MLSWD10	Security Subsystem	M		
AI&MLSWD11	Tools for smooth data synchronization between the existing and developed data management system	M		
AI&MLSWD12	Perform Quality Assurance and Fixing Identified Problems (how it should be organized)	M		
AI&MLSWD13	Preliminary Project Plan (Bidders must provide a Preliminary project plan that includes detailed Service Breakdown Structures (SBS), staff resource allocation, and any other requirements in accordance with ITB Clause 16.2).	M		
AI&MLSWD14	<p>Warranty Service</p> <p>The Warranty shall be for 12 months after operational acceptance. The standard warranty should also include the following technical support services;</p> <ul style="list-style-type: none"> <li>• On-site qualified personnel,</li> <li>• Issues Identification and fixing,</li> <li>• Adjustments to the System per purchaser's request</li> </ul>	M		
AI&MLSWD15	Pre-Commissioning Tests (the Supplier (with the assistance of the Purchaser) must perform testing of the new AI&ML system and its Subsystems before Installation).	M		
AI&MLSWD16	Operational Acceptance Tests Purchaser (with the assistance of the Supplier) will perform tests on the System and its Subsystems following	M		

Number	Description	Mandatory (M)/ Preferred (P)	Bidder's technical reasons supporting compliance:	Bidder's cross references to supporting information in Technical Bid:
	Installation to determine whether the System and the Subsystems meet all the requirements mandated for Operational Acceptance, The Supplier must set up a test and acceptance plan. This plan needs the acceptance of the Purchaser. The Suppliers test plan must contain: <ul style="list-style-type: none"> <li>a. Test strategy</li> <li>b. Test specifications</li> <li>c. Test scenarios (use cases)</li> </ul> Task and responsibilities.			
AI&MLSWD17	The Operational Acceptance The Operational Acceptance will occur after successful operation of all subsystems as described in the Technical Specifications and in the implementation Schedule.	M		

**Note to Bidders:** Please prepare the Technical Responsiveness Checklist (Format 2) in the below format for the rest items of the Technical Bid, which are not specified in Technical Responsiveness Checklist (Format1). Please provide Item-by-Item Commentary on the Technical Requirements demonstrating the substantial responsiveness of the overall design of the System and the individual Information Technologies, Goods, and Services offered to those Technical Requirements. Failure to do so increases significantly the risk that the Bidder's Technical Bid will be declared technically non-responsive. Among other things, the checklist should contain explicit cross-references to the relevant pages in supporting materials included the Bidder's Technical Bid. (For details please see the description of the "Format of the Technical Bid" above.

### Technical Responsiveness Checklist (Format 2)

Tech. Require. No. _	Technical Requirement: <i>[ insert: abbreviated description of Requirement ]</i>
Bidder's technical reasons supporting compliance:	

Bidder's cross references to supporting information in Technical Bid:

## 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: ***Office of the Prime-Minister of the Republic of Armenia (Republic Square, Government House 1, 0010 Yerevan, Armenia) and State Revenue Committee of the Republic of Armenia (3, 7 Movses Khorenatsi St., Yerevan 0015, Armenia)***

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

Alternative No.: ***not applicable***

**Date:** *[Insert date of issue]*

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

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 the Beneficiary its bid (hereinafter called “the Bid”) for the execution of *[insert Name of Contract]* under Request for Bids No. *[insert number]* (“the RFB”).

Furthermore, we understand that, according to the Beneficiary’s, 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 *[insert amount in figures (insert amount in words)]* 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 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) execute the Contract Agreement, if required, 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 on or before that date.

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

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*[signature(s)]*



## **SECTION V - ELIGIBLE COUNTRIES**

### **Eligibility for the Provision of Information System**

In reference to ITB 4.8 and ITB 5.1, for the information of the Bidders, at the present time firms and information systems 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;<sup>1</sup> (ii) to be a nominated<sup>2</sup> 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 inspect<sup>3</sup> 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.

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<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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 – PURCHASER’S REQUIREMENTS**

## **SECTION VII - REQUIREMENTS OF THE INFORMATION SYSTEM**

**(INCLUDING TECHNICAL REQUIREMENTS, IMPLEMENTATION SCHEDULE,  
SYSTEM INVENTORY TABLES, BACKGROUND AND INFORMATIONAL  
MATERIALS)**

# **TECHNICAL REQUIREMENTS**

## **A. ACRONYMS USED IN THE TECHNICAL REQUIREMENTS AND BACKGROUND**

### **0.1 ACRONYM TABLE**

Term	Explanation
DBMS	Database Management System
RDBMS	Relational Database Management System
GB	Gigabyte
ISO	International Standards Organization
LAN	Local area network
KB	Kilobyte
MB	Megabyte
GB	Gigabyte
NOS	Network operating system
OS	Operating system
RAID	Redundant array of inexpensive disks
RAM	Random access memory
EDI	Electronic Data Interchange
HTTPS	Hypertext Transfer Protocol Secure
SQL	Structured Query Language
TCP/IP	Transmission Control Protocol / Internet Protocol
WLAN	Wireless LAN

### **0.2 PURCHASER**

1. The State Revenue Committee (SRC) is the institution responsible for the administration and management of the revenue institutions, which are responsible for the collection of all major taxes and custom duties as well as for the collection of the unified personal income tax, which incorporates social security contributions.
2. AI & ML implementation in SRC has very high priority. AI & ML processes are mission critical for SRC in everyday work and in strategic planning.
3. SRC will be responsible for the overall implementation of the assignment.
4. Taking into account the very large amount of data currently stored in SRC databases since 2008, it is extremely important to introduce modern methods for data analysis to identify and mitigate risk in existing records and among taxpayers. New tools are required to analyze existing information. Currently, SRC is investing heavily in human resources and time spent preparing elementary analysis and reports. AI & ML will allow SRC to detect additional data features and possibilities that manual analysis will not detect in SRC databases. The only way to remedy the situation is to migrate SRC's big data processing and analyzing approach toward the direction of AI & ML.

5. Today SRC is one of the most digitized government agencies in Armenia. SRC databases receive reliable information under firm controls from well-developed electronic systems (declarations, invoices, payments, acts of audit). Simultaneously, data from third parties (state register, police, cadaster, and licenses issuers) is not reliable information and requires error correction and data-cleaning.
6. SRC is already taking the first steps beginning with Big Data analytical systems. For this purpose, a new data warehouse was created, and most of the existing big databases were transferred to this warehouse. Using ORACLE SQL Developer, more than 40 reports were prepared and are now widely used by SRC management and employees. This job is in permanent development and has high priority among IT department’s tasks.
7. In order to continue to develop cutting-edge achievements in area of AI & ML, SRC is actively participating in international forums, seminars, and webinars dedicated to the theme. In the recent years, SRC employees participated in all events conducted by the OECD, IOTA and BRITACOM organizations. Thus, SRC places priority on ongoing training of SRC employees in the best practices of AI & ML.
8. As a result of recent AI & ML implementation in SRC, two projects, conducted by SRC in cooperation with American University of Armenia now exist.
  - (a) The first is named “Developing Alternative Methodologies of Tax Evasion Identification” includes the following actions.
    - (i) Based on historical data of audits and frauds from 2018, researchers applied different approaches to generate additional data that might be structurally associated with risky profiles (e.g. unusual growth patterns, profitability or productivity, exporting/importing activities, etc.).
    - (ii) The implementation of the above suggested framework on the historical data (2018 audits) showed that there are 807 taxpayers that the model selects (based on confidence scores in possible fraudulency). Of those, only 156 of them are true positives by the audit model (i.e. only 156 would be considered for audit).
    - (iii) Next steps will be to develop a model based taxpayer selection, which will apply the created models and identification of TINs that will likely be subjected to audits or other behavioral interventions in the 2022-2023 tax year.
  - (b) The second project is connected to the problem of the traceability of goods in procurement and supply chain management. The whole chain of procurement, starting from import or production to the end user is extremely important in terms of analysis.
    - (i) AI & ML models will make it possible to detect and halt illegal transactions, tax frauds, shadow economy, and money laundering in real-time using existing data from customs, invoices, cashier machines to explore, analyze, and train models.
    - (ii) This project now is in the nascent stage. In particular, SRC is now working on goods identification and coding.



## **B. FUNCTIONAL AND PERFORMANCE REQUIREMENTS**

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### **1.1 Legal and Regulatory Requirements to be met by the Information System**

1.1.1 The Information System MUST comply with the following laws and regulations:

- (i) Tax code of Republic of Armenia (*in force from 1 January 2018*)
- (ii) Eurasian Customs Code (in force from 1 January 2018)

### **1.2 Business Objectives Of The Purchaser**

1.2.1 The objective of the Project is to modernize Armenia's tax administration with the following improvements.

- (1) Increase voluntary tax compliance;
- (2) Reduce tax evasion;
- (3) Reduce compliance costs;
- (4) Increase business administration efficiency;
- (5) Increase business intelligence capabilities;
- (6) Increase decision-based ML and AI modeling capabilities;
- (7) Increase data interoperability;
- (8) Enable internal audit capabilities;
- (9) Secure data with access controls.

### **1.3 Anticipated Methods for Achieving Objectives**

- (1) Create three data layers for storing and managing data;
  - (a) Unstructured Data - Transactional data contained in high-capacity low-computation storage systems: raw transactional logs in CSV or TSV format stored in an append-only flat file topology without normalization or cleansing.
  - (b) Semi-structured Data - Document-based data storage contained in document management databases for API communication and Web Services Applications: cleansed data in JSON, BSON, or a key-value formats in a software managed storage topology.
  - (c) Structured Data - Relational Database Management System (RDBMS) storage in a tabular structure managed by a SQL database software application: regular, normalized, cleansed data used in business intelligence solutions and analytics.

- (2) Introduce modern, integrated, software development workflows comprised of project management, version control, quality assurance, and continuous integration technologies to support SRC operations.
  - (a) Project management tools must allow for long term iterative processes in data analysis, experimentation, model development, deployment, and integration testing.
  - (b) Version control must enable storing versions of experimental programming models, software notebooks, applications, and any related individual software programming files with accompanying documentation.
  - (c) Quality assurance systems require the ability of file bugs in software, request new features, request new ideas for software, models, and algorithms using manual and automated workflows.
  - (d) Continuous integration enables the ability to deploy new software models using automated tests to check for regressions, and ensure the highest standard of quality for the code and architectures deployed in various locations.
- (3) Improve data interoperability and data governance between the SRC and other agencies to improve risk management, compliance activities, and provision “third party data” for external use with Application Programming Interfaces (APIs);
- (4) Restructure and automate common business processes with robotic process automation (RPA), computational algorithmic development, and decision-based ML/AI modeling to improve service delivery, client participation, administration, expansion of e-Government services including e-filing and e-payments to lower the expense and compliance burden for the private sector;
- (5) Provision flexible topologies of commodity services to support the Government’s commitment to implementing comprehensive tax administration reforms, which aim to improve taxpayer compliance, broaden tax bases, and enhance the business climate through more efficient tax procedures, which reduce compliance costs for taxpayers.

## **1.4 Business Function and Performance Requirements to be met By the Information System**

### **1.4.1 CORE SYSTEMS**

- (1)** Data Management and Analysis System will ensure the quality of operational data, efficient real time analytics and predictions, enhanced risk management.

**(a)** Data Cleansing Subsystem (hereafter called “Subsystem 1”) will “cleanse” ingested data to remove null records, prevent harmful data ingestion, and prevent sparse or otherwise incomplete data from entering the system. *(The Detailed Description of Subsystem 1 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).*

**(b)** Object Management Subsystem (hereafter called “Subsystem 2”) - will conduct basic operations with key data objects (such as business entity, product, unit, etc.), such as: adding, deleting, editing, objects inside models used within the following systems: *(The Detailed Description of Subsystem 2 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).*

(i) Foundational data will be unstructured transactional log data stored in flat file systems inside data volumes running on commodity data center hardware capable of expansion to exabyte scale.

(ii) Operational data will be document based JSON, BSON, or key-value data stored in managed document database solutions running on commodity data center hardware capable of expansion to petabyte scale.

(iii) Analytical data will be data stored in a relational database management system (RDBMS) or non-relational database management system that enables queries for analytics and business intelligence software that utilize complex query languages for reporting.

(iv) Network File System (NFS) capabilities will enable engineers to mount remote volumes containing data on local machines in such a manner that allows for computational sampling of CSV/TSV data for further analysis, algorithm development, data cleansing, and collaborative model experimentation with ML notebooks. Access controls must require authentication in order to mount network volumes on local machines.

**(c)** Big Data Processing and Integration Subsystem (hereafter called “Subsystem 3”) that will enable statisticians, data scientists, analysts, data engineers, and machine learning engineers to analyze and implement applications that consume all data at massive scale streaming in real-time. *(The Detailed Description of Subsystem 3 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).*

(i) Real-Time Data Processing System provisions a means of capturing the “firehose” of ingested data in real-time using a publisher-subscriber architecture, change streams, micro-batch processing, or at the least, batch processing capabilities. This system provides alerts, notifications, aggregations, rolling computations, and even event triggers for applications deeper within the architecture.

**(d)** Business Intelligence (BI) System (hereafter called “Subsystem 4”) connects data sources with analytical reporting tools such as charts, tables, and computational

assessments of various metrics with intrinsic value to the internal organization. (The Detailed Description of Subsystem 4 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(e) Software Administration System (hereafter called “Subsystem 5”) will enable oversight and management of compute resources including hardware and software systems, applications, queries, and monitor performance of such systems through one or more centralized portals for analysis and administration. (The Detailed Description of Subsystem 5 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(f) Hardware Administration System (hereafter called “Subsystem 6”) will oversee the effective specification, provisioning, procurement, and deployment of the physical resources needed for the baseline operating capacity of the business system. (The Detailed Description of Subsystem 6 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(2) Operations Management System (hereafter called “Subsystem 7”) will grant operational insights for operational data (deals, sales, stock transfer, etc.). (The Detailed Description of Subsystem 7 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(3) Adaptive Machine Learning and Artificial Intelligence System (hereafter called “Subsystem 8”) provisions an application environment for training and applying machine learning models that have access to a very large population of data for analysis employing both real-time and regressive analytical methodologies. Data scientists, statisticians, analysts, and engineers require access to the following. (The Detailed Description of Subsystem 8 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(a) Very large data volumes for preparing and experimenting with proper sampling, cleansing, and training methods.

(b) Network Filesystem (NFS) volumes that staff may mount locally and access through Jupyter Notebooks in order to collaboratively support data engineering.

(c) On-premise machine learning environments that will utilize Jupyter Notebooks and AI/ML Services to minimize total cost of ownership of costly machine learning computational systems during experimental and early phases of model development.

(d) Machine learning and statistical tools for discovery, experimentation, and production development.

(e) References and resources for learning new ML methods and encouraging a culture of continuing education.

(f) Software deployment infrastructure for installing new software solutions in a working environment.

(4) Security System (hereafter called “Subsystem 9”) that manages access control to groups and users, uses hardware and software firewalls to prevent unauthorized access to all systems, and actively discovers vulnerabilities through regular security audit and “white-hat” hacking practices. (The Detailed Description of Subsystem 9 is specified under ATTACHMENT 1, which outlines its scope but does not impose any restrictions).

(a) Access control lists associated with users and groups need POSIX compatible configurations using Active Directory or similar architecture to control access to data, partitions, and network filesystems.

(b) Hardware and software firewalls further enable whitelisting, blacklisting, and port management for remote access control to physical and logical resources on premise.

(c) White hat hacking practices in combination with audit will ensure that local resources will intercept any egregious errors in access control management or permissions prior to detection by nefarious actors.

(5) SUMMARY - This business requirement specification describes the technical requirements necessary for the development and implementation of the Data Management and Analysis System. The successful Bidder will be required to prepare the technical specifications before designing, developing, installing, configuring, and testing these systems. The Bidder will also be expected to carry out user training and support during the transition to the new infrastructure.

## 1.5 Performance Requirements of the System

a) Table of performance metrics with descriptions, minimum, maximum, and burst capacity quotas.

Descriptor	Min Quota	Max Quota	Min Burst Capacity
Log Storage Capacity	5TB	1PB	10% of Capacity Quota
Document DB Storage Capacity	5TB or 10B rows/documents/nodes or other unit entities	1PB or 10T rows/documents/nodes or other unit entities	10% of Capacity Quota
RDBMS Capacity	10B Rows	10T Rows	10% of Capacity Quota
Network Capacity	100Mb Bitrate	1000Gb Bitrate	20% of Capacity Quota
Computation Capacity	20% Mean Utilization	80% Mean Utilization	100% of Mean CPU Capacity
Memory Capacity	50% Mean Utilization	80% Mean Utilization	200% of Mean RAM Capacity
Replication Factor	3	10	N/A

Security Protocols	TLS/SSL/No-Root Access, No PW-Less SSH, Virtual and Hardware Firewalls
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- b) The Bidder will need to ascertain the current operating capacities and plan a capacity utilization strategy for managing compute resources for the duration of the operational life of the infrastructure.

## 1.6 Functional Requirements of the Information System

Detailed description of data management system and subsystems is given below:

- (a) User Interfaces
  - a) The systems and all interfaces shall be in Armenian.
  - b) All information technology systems MUST display, calculate, and transmit dates in the European Format (DDMMYYYY ) for all interfaces.
- (b) Data Interfaces and Interoperability
  - a) Systems shall ensure the secure exchange of collected data between all other authorized systems.
  - b) Systems will prioritize data exchange within the SRC data infrastructure.
  - c) Data exchange shall occur no less than on a daily basis.
  - d) There shall be no omissions to data exchanges between Systems.
  - e) Human intervention must be kept to a minimum during the data exchange process; only exceptional cases of technical audit, analysis, and correction will be authorized.
- (c) Accessibility
  - a) Systems shall provide additional tools for accessibility to individuals with audiovisual impairments.
- (d) Security
  - a) Systems shall implement a restrictive access policy grant permissions and NOT a permissive policy that restricts permissions.
  - b) All Systems shall implement user management from a central authentication system.
- (e) Business Continuity
  - a) All systems must meet business continuity planning requirements based on the level of essential services the systems provide.
  - b) Systems with critical dependencies must have priority.
  - c) Business continuity prioritization will be the responsibility of the Purchaser, with support from the Bidder.

## C. SERVICE SPECIFICATIONS – SUPPLY & INSTALL ITEMS

### 2.1 Implementation Methodology

- (1) Suppliers are free to propose any implementation platform.
- (2) The Bidder will develop and deploy the Systems as a multi-tier software solution (n-tier application).
- (3) Each of the Systems shall be comprised of four layers with the following sub-systems:
  - (1) **Presentation Layer**
    - (i) *Customer Portal*
    - (ii) *Administrative Portal*
    - (iii) *BI Portal*
  - (2) **Service Application Layer**
    - (i) *BI Applications*
    - (ii) *Revenue Administration Applications*
    - (iii) *Business Logic Applications*
    - (iv) *Web Services Applications*
  - (3) **System Application Layer**
    - (i) *ML/AI Applications*
    - (ii) *Messaging Relay Applications*
    - (iii) *ETL Applications*
  - (4) **Data Layer**
    - (i) *Transaction Log Data*
    - (ii) *Document Data*
    - (iii) *Relational Data*

## 2.2 System Integration (to other existing systems)

The AI&ML system is a part of Taxpayer-3 system and should be integrated with other sub-modules of the Taxpayer-3

## 2.3 Training and Training Materials

- 2.3.1 The successful bidder will conduct min. 2 days classroom training courses that will cover all system operations, and provide the Purchaser with a user guide for operations for no less than one year from the completion date.

The goal of the training is to furnish training and capacity-building assistance, along with thorough guidance on the overall functioning, configuration, knowledge, and abilities of the system.

### 2.3.2 Training Plan and Training Approaches

- (1) Prior to conducting training courses, the Supplier is required to develop a training plan, particularly when setting up different infrastructure components during installation.

- (2) All training materials and instruction **MUST** be created and delivered in Armenian for all users.
- (3) The Supplier must create the training plan before initiating the development of the training course or the training of staff.
- (4) The Supplier must evaluate the training requirements associated with the utilization of each subsystem of the system before their testing or full operation. The training methods may include, but are not limited to, presentations, classroom activities involving the provision of manuals and other technical materials, briefings and orientation sessions, seminars, and on-site workshops.
- (5) The Supplier must organize system use training for approximately 15 participants (i.e. System users and administrators).

The supplier will assume responsibility for the expenses related to training, which includes the expenses for simultaneous translation if required, and printing of training materials. The SRC may provide support by offering the training venue within its own premises. Training will be conducted at the following address: 12/3 Aharonyan, Yerevan, Armenia

## **2.4 Documentation Requirements**

2.4.1 The Supplier **MUST** prepare and provide the following Documentation.

### **2.4.1.1 End-User Documents:**

- (1) The bidder will provide technical documentation that includes and is not limited to an operational manual, service manual, system installation manual, and user manual.
- (2) All manuals will be written in Armenian, and delivered in hard copy and electronic form via MS Word and PDF format.

### **2.4.1.2 Technical Documents:**

2.4.1.2.1 The Supplier **MUST** provide technical documentation in Armenian language but this requirement is not limited to the following:

- (i) Final Technical Specification for each system;
- (ii) Installation and Configuration Documentation for each system;
- (iii) Operational manual for each system;
- (iv) Service manual for each system;

2.4.1.2.2 Within the frames of this document, the Final Technical Specification for each system shall have the following structure:

- (i) General description of the system;
- (ii) Applicable acronyms;
- (iii) Description of business process;
- (iv) Groups of potential users;
- (v) User interface specification.



**2.4.1.2.3 Monthly Progress:** The Supplier will provide monthly project progress reports (on the 15th of each month) with weekly objectives outlined for the Client with the following structure and content Completed services: in this section of the report the Supplier should provide the status of services performed/implemented during the previous months in accordance with the Project Plan. Services in progress: in this section of the report, information is presented about the progress of the services that are planned for the given month in the Project plan. The Supplier provides the Purchaser the Source Code of the programmed system and its description after finishing every phase. The description should be provided in a readable form so that the programmer or analyst can maintain and improve the software. The Source Code and related documentation must contain all developer comments, information models, process queue diagrams, etc.

**2.4.1.2.4 Sources**

- (i) The bidder will produce, develop, implement, and manage source code using a version control system accessible to the Purchaser.
- (ii) The Supplier provides the Purchaser the Source Code of the programmed system and its description after finishing every phase. The description should be provided in a readable form so that the programmer or analyst can maintain and improve the software. The Source Code and related documentation must contain all developer comments, information models, process queue diagrams, etc.

**2.4.1.2.5 Technical (functional) task development**

The Supplier must present the technical task of the system.

According to the implementation schedule, the Supplier must submit the technical (functional) task to the Purchaser, which should have the following structure (the structure of the technical (functional) tasks may be changed after agreeing with the Purchaser):

- 1. Introduction
  - 1.1. participants
  - 1.2. Links:
    - 1.2.1. Component documents
    - 1.2.2. Related documents:
    - 1.2.3. Terms:
    - 1.2.4. Abbreviations:
- 2. Brief description of the information system
  - 2.1. Subsystems
- 3. Functional design
  - 3.1. Functional overview
    - 3.1.1. Detailed functional description
    - 3.1.2. Detailed interface description
- 4. Technical project
  - 4.1. Structural description of information flows
  - 4.2. Information Description
    - 4.2.1. Description of incoming information
    - 4.2.2. Description of output information
    - 4.2.3. Full description of the database
    - 4.2.4. Schematic diagrams of maintenance of software and technical parts of the system

- 4.3. Defining implementation methodology, programming languages, database and operating system selection
- 4.4. Structural description of technical means
- 4.5. Description of minimum technical (functional) requirements

System specifications must be updated regularly if changes are made to the system during the implementation and the warranty service.

The Supplier shall submit a final report to the Purchaser. The reports must be provided electronically in the Armenian language.

**During the whole project implementation the Supplier must use task assignment and tracking system (for example, Jira, RedMine, OpenProject or other similar system), to which access must be granted to the relevant employees of the RA Tax Administration.**

## **2.5 Requirements of the Supplier’s Team/Personnel**

2.5.1 The Bidder MUST propose the most cost-effective team composition that can deliver products and services of highest quality.

- (a) Minimum Resources - Bidders MUST provide sufficient resources to implement the human resources outlined in this section at a minimum.
- (b) Staffing Plan - The Bidder MUST provide a detailed staffing plan.
- (c) Experience - All team members MUST meet the criteria for having sufficient experience in each specific area defined below.

The Supplier MUST maintain the team of the following roles and skill levels during the Supply and Installation Activities under the Contract:

The indicative team structure are split into Operations, Data Engineering, Software (SW) Engineering, Quality Assurance, Financial Administration, and Systems.

2.5.2 The Bidder MUST provide a detailed Curriculum Vitae (CV)/resumes for the following staff required under the Contract:

The Team (key and non-key personnel) MUST include at least the following experts with the min. professional work experience:

### **2.5.2.1 Project Manager (key personnel)**

- a) **Role: Project Management** - In all bids, the bidders MUST propose one project manager with oversight and overall responsibility for total project implementation. The project manager will coordinate all activities related to project development.

- b) **Quantity: 1**

- c) **Qualifications Requirements: specified under ITB 35.4**

### **2.5.2.2 Data Engineering**

- a) Helps the organization capture, cleanse, analyze, extract, and produce useful information from raw data streams.
- b) This team also helps make data accessible through the good practices in each data processing and analysis domain.

#### **2.5.2.3 Lead Data Scientist (key personnel)**

- a) **Role:** Leads the principal activities of managing the data science team: project planning, validation, research, prioritizing, and building models for data cleansing, analysis, and storage.

- b) **Quantity: 1**

- c) **Qualifications Requirements: specified under ITB 35.4**

#### **2.5.2.4 Sr Data Scientist**

- a) **Role: Works with Lead Data Scientist to support the principal activities of the data science team.**

- b) **Quantity: 1**

- c) **Qualifications:**

- (i) Master’s degree in Mathematics, Data Science, Statistics or closely related field
- (ii) Minimum four years of equivalent work experience.
- (iii) Demonstrable understanding of machine learning, statistics, data cleansing, and computing systems design.
- (iv) Expert knowledge of Python and SQL using ML toolkits (tensorflow, pandas, numpy, etc).

#### **2.5.2.5 Sr. Machine Learning Engineer (key personnel)**

- a) **Role: Works in tandem with data science team to pursue in-depth machine-learning model development, optimization, and deployment to production.**

- b) **Quantity: 1**

- c) **Qualifications Requirements: specified under ITB 35.4**

#### **2.5.2.6 Data Engineers**

- a) **Role: Supports the Lead and Senior Data Scientists and ML Engineer with analysis, reporting, and testing of models, applications, and systems of applications in data engineering.**
- b) **Quantity: around 2**
- c) **Qualifications:**
  - (i) Certificate in Data Science or two years of equivalent work experience.
  - (ii) Basic knowledge of machine learning, statistics, data cleansing, and basic machine learning systems design.
  - (iii) Expert level knowledge of Python and SQL.
  - (iv) Practical knowledge of ML toolkits is ideal, but not required (tensorflow, pandas, numpy, etc).

#### **2.5.2.7 DB Administrator (key personnel)**

- a) **Role: The central authority of data storage applications including log management systems, document storage, and relational database systems.**
- b) **Quantity: 1**
- c) **Qualifications Requirements: specified under ITB 35.4**

#### **2.5.2.8 Lead Business Analyst (key personnel)**

- a) **Role: Takes ownership of internal data analysis, workflows, and demands for data insights based on the needs of the organization.**
- b) **Quantity: 1**
- c) **Qualifications Requirements: specified under ITB 35.4**

#### **2.5.2.9 Team of Business Analysts**

- a) **Role: Supports ownership of internal data analysis, workflows, and demands for data insights based on the needs of the organization.**
- b) **Quantity: 1**
- c) **Qualifications:**
  - (i) Master in Business Analytics or related field
  - (ii) Minimum three years of equivalent work experience.
  - (iii) Demonstrable understanding of BI tools, concepts, uses, and systems.

#### **2.5.2.10 SW Engineering**

**Helps the organization implement business, administrative, and analytical processes using the appropriate programming languages and software frameworks.**

2.5.2.10.1 SW Lead Engineer (key personnel)

**a) Role: Leads the principal activities of managing the software engineering team: project planning, validation, research, prioritizing, and developing custom software systems for computation, automation, and analysis.**

**b) Quantity: 1**

**c) Qualifications Requirements: specified under ITB 35.4**

2.5.2.10.2 Team of Engineers

**a) Role: Support the lead engineer with developing custom software systems for computation, automation, and analysis.**

**b) Quantity: around 6**

**c) Qualifications:**

(i) Bachelor’s degree in Computer Science or equivalent work experience.

(ii) Expert understanding of software engineering practices, methodologies, and computing systems design.

(iii) Expert knowledge of Python, JavaScript, Go, Java, and/or C/C++ in their appropriate environments.

(iv) Expert knowledge of algorithms, data structures, internal cloud services, containerization, testing, and deployment within software architectures.

(v) Expert knowledge of Test-Driven-Development (TDD) using Behavior Driven Development (BDD) use cases.

**2.5.2.11 Quality Assurance**

2.5.2.11.1 Lead QA specialist (key personnel)

**a) Role: Guides BDD and TDD best practices among engineering teams and develops continuous integration (CI) pipelines using automated testing environments associated with version control systems and production deployment best practices.**

**b) Quantity: 1**

**c) Qualifications Requirements: specified under ITB 35.4**

2.5.2.11.2 QA Engineer

- a) **Role: Supports QA Lead and guides BDD and TDD best practices among engineering teams; develops continuous integration (CI) pipelines using automated testing environments associated with version control systems and production deployment best practices.**
- b) **Quantity: 1**
- c) **Qualifications:**
  - (i) Minimum five years experience with quality assurance lifecycle best practices.
  - (ii) Expert knowledge of Test-Driven-Development (TDD) using Behavior Driven Development (BDD) use cases.
  - (iii) Expert knowledge of Unit Testing, Functional Testing, Integration Testing, and End-to-End Testing methodologies.
  - (iv) Prior government level quality assurance systems implementation experience preferred.
  - (v) Prior engineering experience preferred but not required.

#### **2.5.2.12 Financial Administration**

##### **2.5.2.12.1 Lead Finance/Tax Specialist**

- a) **Role: Ensures completeness and comprehensive implementation of ITAS infrastructure in accordance with Armenia’s legislative accounting practices.**
- b) **Quantity: 1**
- c) **Qualifications:**
  - (vi) Minimum three years experience working in Government Tax and/or Financial sector.
  - (vii) Familiarity with Integrated Tax Administration Systems (ITAS) preferred.

#### **2.5.2.13 Systems**

##### **2.5.2.13.1 Lead Systems Administrator (key personnel)**

- a) **Role: Manages and maintains hardware and software systems administration across the entire infrastructure; prevents downtime, and ensures the uptime and proper provisioning of the resources necessary for the organization.**
- b) **Quantity: 1**
- c) **Qualifications Requirements: specified under ITB 35.4**

##### **2.5.2.13.2 Team of Systems Administrators**

- a) **Role: Supports hardware and software systems administration across the entire infrastructure; prevents downtime, and ensures the uptime and proper provisioning of the resources necessary for the organization.**
- b) **Quantity: 1**
- c) **Qualifications:**
  - (i) Minimum 3 years experience working with distributed systems administration in on-premise data centers.
  - (ii) Expert knowledge of commodity software and hardware management inside a data center.

## **C. TECHNOLOGY SPECIFICATIONS – SUPPLY & INSTALL ITEMS**

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### **3. GENERAL TECHNICAL REQUIREMENTS**

#### **3.0 Hardware**

The available hardware will be provided by the Purchaser upon the written request of the Supplier for the installation of the System developed in the framework of this assignment. Below are presented the specifications of the hardware which is available:

- Operating System – Red Hat
- Database – Oracle
- RAM – 160 GB
- CPU – 64 core
- DISK for application – 900 GB
- DISK for database – should be additionally discussed with the SRC and development team. In case of need necessary disk space should be provided by the Purchaser.

#### **3.1 Network and Communications Specifications**

##### **3.1.1 Local Area Network:**

Protocols support – TCP/IP

Performance Levels – 1gbps

Fault tolerance – supported

##### **3.1.2 Wide-Area Network:**

Protocols support – TCP/IP  
Performance Levels – 1gbps  
Fault tolerance – supported

## **3.2 Standard Software Specifications**

### **3.2.1 System Software and System-Management Utilities:**

Processing unit type 1:  
Operating system – Linux Red Hat (last version)  
Backup – only data backup, passive/standby in second DC  
Optimization – code optimization  
Anti-virus – none  
System administration – none for os (needed only for software)  
Maintenance - none for os (needed only for software)  
Troubleshooting - none for os (needed only for software)

### **3.2.2 Networking and Communications Software:**

Protocols – TCP/IP  
Media and equipment to be supported – copper / optic and Ethernet switches and routers  
Management and administration features – none for network infrastructure  
Security and failure management features – none for network infrastructure

### **3.2.3 General-Purpose Software: *none***

### **3.2.4 Database Software and Development Tools:**

Database – Oracle (management tools for Oracle)  
Development tools and environments – none

### **3.2.5 Business Application Software: *none***

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## **D. TESTING AND QUALITY ASSURANCE REQUIREMENTS**

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### **4.1 Pre-Commissioning Tests**



In addition to the Bidder’s standard check-out and set-up tests, the Bidder (with the assistance of the Client) must perform other necessary tests upon the Client’s request.

## **4.2 Operational Acceptance Tests**

Pursuant to GCC Clause 27 and related SCC clauses, the Purchaser (with the assistance of the Supplier) will perform the following tests on the System and its Subsystems following Installation to determine whether the System and the Subsystems meet all the requirements mandated for Operational Acceptance.

### **4.2.1 Acceptance process includes the following activities:**

- (i) Acceptance of business analysis;
- (ii) Quality Assurance (testing);
- (iii) Fixing identified issues in the systems;
- (iv) Acceptance of final technical specification for each sub-system;
- (v) Acceptance of Source Codes;
- (vi) Operational Acceptance.

4.2.2 The process of operational acceptance includes the acceptance of the TS and finalized systems, the systems and hardware implementation in the SRC and conducting training on the systems application.

4.2.3 Operational acceptance shall be performed after all the issues identified by the SRC are solved.

4.2.4 The Operational Acceptance will occur to determine the successful operation of all systems as described in the Technical Specifications.

- a) The successful bidder will utilize good testing practices to verify and validate the completion of objectives and key results in accordance with the technical specifications.
- b) Testing shall cover the following scopes of good practices:
  - (i) Unit testing will verify operational integrity of standalone units within custom code.
  - (ii) Functional testing will verify functional integrity of the business logic within functional domains.
  - (iii) Integration testing will verify the integrated operational integrity of interconnected units of the functional application architecture.
  - (iv) End-to-End testing will verify the integrity of the entire system as a full scope of operational abilities within the domain of system-wide operation.
- c) The successful bidder will conduct all testing in the production server environment to qualify for completion.

- d) The successful bidder will present all functional, integration, and end-to-end test cases to the Purchaser for approval.

## **E. SERVICE SPECIFICATIONS – WARRANTY AND TECHNICAL SUPPORT ITEMS**

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### **5.1 Warranty Defect Repair**

5.1.1 The Supplier MUST provide the following services under the Contract:

5.1.1.1 Warranty Defect Repair Service: Supplier shall provide 12 months warranty service for installed and accepted software. Warranty Period shall commence from the date of Operational Acceptance of the System and shall extend for twelve (12) months. During warranty service, all current defects must be eliminated at the expense of and through the Supplier.

### **5.2 Technical Support**

5.2.1 The Supplier MUST provide the following services under the Contract

Software technical support should at least include:

- (a) adjustments to the System per purchaser’s request,
- (b) implementation of non-extensive changes necessary to ensure the uninterrupted operation of systems (non-extensive software changes of systems, which are related to legislative changes, as well as to the solution of individual issues of tax administration),
- (c) Server maintenance.
  - updating and fixing system changes,
  - provision of clarifications on issues arising in terms of software at specialized groups providing advice and technical support to system users,
  - provision of advice on the organization of ensuring the integrity and security of the information contained in the servers,
- (d) setting up and maintenance of the database (DB).
  - Implementation of Technical Support software updates,
  - Software maintenance and archiving organization consulting,
  - Consulting on the settlement of problems related to Technical Support, and if necessary, intervention to eliminate the problems,
  - Consulting on Technical Support optimization issues.
- (e) Providing advice on securing servers and channels, as well as countering unauthorized intrusions, virus threats, installation of unauthorized programs and other unauthorized activities on users' computers,

- (f) provision of advice on the regulation and maintenance of the data exchange network between the systems and its users,
- (g) provision of advice on the regulation and maintenance of equipment that ensures uninterrupted operation of systems,
- (h) investigating and fixing errors/defects in systems, including providing temporary solutions and bypassing defects until systems are fixed and updated;
- (i) development, testing, installation of updates,
- (j) provision and installation of new versions of software, as well as updating relevant documents and materials,
- (k) setting up systems when their inoperability is attributed to software defects or errors;
- (l) support for recovery and correction of lost, damaged files, correction of incorrect data,
- (m) provision of other advice,
- (n) creation and integration of new modules as needed.

## **ATTACHMENT 1:**

### **Detailed Description of Data Management System and Subsystems**

#### **1. General Information**

##### **1.1. Introduction**

- (i) SRS is implementing a long-term plan that ensures iterative development of key data storage and processing subsystems.
- (ii) This general plan is to quickly deploy basic systems that capture, store, and analyze data with trackable results using minimal resources.
- (iii) By leveraging minimal resources with verifiable results, SRC will expand existing system resources laterally while also deploying downstream resource dependencies vertically.
- (iv) As the various subsystem components attain stages of practical maturity, this whole-of-government architecture will produce verifiable results to garner additional investments and funding.

##### **1.1.1. The order of deployment will be determined by logical priority in the following order of general utility:**

- (i) General data filesystem storage and management.
- (ii) General data access, analysis, and experimental ML model development systems.
- (iii) Document-based and relational storage systems for application development.
- (iv) Streaming and batch processing systems.
- (v) Specialized data processing applications for real-time detection and continuous reporting.

##### **1.1.2. Different data is used by the SRS during its operational processes. This data may be classified as:**

- (i) Unstructured Data — This is transactional data that is action and event related such as invoices, cash register sales, stock transfers, customs declarations, purchases, debits, credits, etc.

- (ii) Semi-Structured Data — This is non-normalized dictionary, object, or key-value data that represents real-world objects such goods and services, business entities, individuals, addresses and locations, contracts, and chains of transactional data. This data is prone to spontaneous changes in characteristics reflected in the sub-structure and therefore does not qualify for use as structured relational data.
- (iii) Structured Data — This is predictable relational data that represents relationships between objects with normalized properties such as business intelligence analytics and reports for various entities and organizations with related representatives whose characteristics are generally immutable and standardized by strict data models.

**1.1.3.** The data may come from different sources:

- (i) Manual input by either SRS employees or employees of companies in Armenia from digital and physical sources.
- (ii) Automatic input from external information systems like customs declaration register, geo-coder services, tax audit integrated electronic system, etc.

**1.1.4.** A large amount of data has been accumulated during years of SRS operations. Due to the human factor, the fragmentation of data sources and the lack of a unified coherent data structure, data quality adversely affects the accuracy of analytical reports, forecasts, plans and real-time decisions.

**1.1.5.** Traditional systems, implemented by the SRS lack the necessary tools for keeping the required quality level of constantly growing data, therefore severely complicating analysis and decision-making process.

**1.2.** Objective

**1.2.1.** To develop a Data Management and Analysis System, which will ensure required data quality and provide all the necessary tools for data analysis and management. The management tools will allow SRC to substantially increase data quality by the means of algorithmic de-duplication, error correction, enrichment automation, using robotic process automation and algorithmic development.

**1.2.2.** The data analysis tools will allow SRC to extract new information and insights from data including but not limited to:

- (i) Aggregations and dynamic filtering;
- (ii) Geo-data;
- (iii) Correlations;
- (iv) Predictions and forecasts;
- (v) Clusters;
- (vi) Regressions;

- (vii) Anomalies.

**1.2.3.** Such analytics will provide enhanced support for risk management and decision-making processes of SRC.

### **1.3. Scope of Services**

**1.3.1.** The Bidder **MUST** be familiar with SRC’s process of organizing and executing tax audits and inspections with emphasis on the stages of audit process and any issue or data related to their automation.

**1.3.2.** For designing the integrated electronic system of data management the Bidder shall propose tools for smooth data synchronization between the existing and developed data management system.

**1.3.3.** As a result of the mentioned inspections technical specifications shall be prepared for the system.

**1.3.4.** The technical specifications shall have the following structure:

- a) Introduction
- b) Current situation
- c) Objective
- d) References
  - (i) Terms
  - (ii) Constituent documents
  - (iii) Acronyms

**1.3.5.** Brief description of information system

- (i) Subsystems

**1.3.6.** Functional design

- (i) Detailed functional description
- (ii) Detailed interface description

**1.3.7.** Technical design

- (i) Structural description of information flow
- (ii) Information description
- (iii) Description of input information
- (iv) Description of output information

**1.3.8.** Defining selection of implementation methodology, implementation languages, and implementation database and operation system.

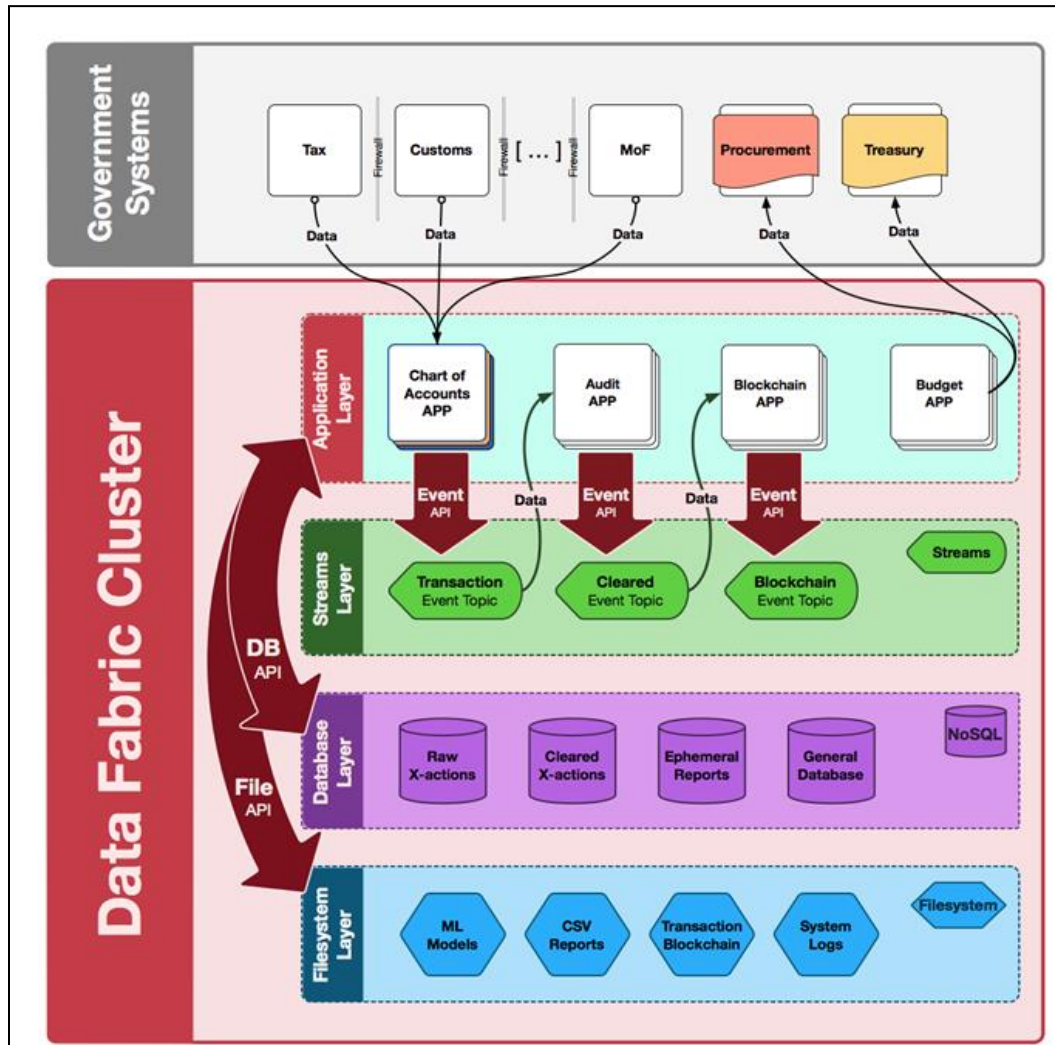
**1.3.9.** Description of minimum technical requirements

**1.3.10.** Project finalization

#### 1.4. Confidentiality

- 1.4.1. The Supplier takes the responsibility of keeping the entire information confidential, which is not for public and will not take over any assignment, which will lead to conflict of interest against the dominant task.

## 2. SAMPLE GENERAL DATA FABRIC REFERENCE ARCHITECTURE



### 2.1. General Reference Diagram

## **2.2. Explanation of the General Reference Diagram**

- 2.2.1.** The general purpose of the data fabric architecture is to unify data collection, storage, security, analysis, and communication across the whole-of-enterprise. The term “fabric” refers to the underlying disparity of the various solutions and locations in use throughout the architecture, which we “stitch” together using various standards. Standards here are a loosely defined term explored later in this chapter. Presently, it is important to recognize that a “standard” is an agreement, or contract, implemented by the enterprise to maintain consistency across disparate systems. Essentially, consider that a cohesive architecture must rely on standards, whether proprietary or universal, to ensure the continuity of its operations. The parts of the data fabric architecture rely on continuity through standards in order to remain interoperable as the enterprise transforms over time. Let’s explore these in general top-down detail before we dive into specifics using a “bottom-up” approach.
- 2.2.2.** In general terms, the data fabric architecture consists of two key top-level layers grouped symbolically within the whole-of-enterprise: the Systems Layer, and the Data Fabric Cluster.
- 2.2.3.** The Systems Layer houses the general department and division-specific operating components of the entire organization, for example the top-most ministries of government, inventory, payroll, procurement, and customer support systems in the enterprise. Human-to-machine interfaces are the common denominator of all the components in the Systems Layer.
- 2.2.4.** The Data Fabric Cluster is further divided into the AI Layer and the Data Lake, both composed entirely of machine-to-machine processes with specialized roles within the whole-of-enterprise. These are not human-facing applications. Many are distributed and even fully automated.
- 2.2.5.** Going further into the Data Fabric Cluster, the AI Layer is host to various automations that can consume and produce data at enormous scale inside a specialized Application Layer that works in tandem with a Streams Layer. The first layer, the AI Application layer, holds all the custom AI applications inside the data fabric cluster. Underneath that, a Streams Layer ensures that data flows from one place to another inside the cluster in real-time.



**2.2.6.** Beneath the AI Layer, the Data Lake stores terabytes, petabytes, and even exabytes of information in two sub-layers: the Database Layer and the Filesystem Layer. Artificial intelligence requires a vast reservoir--an ocean!--of data to train and evolve bespoke models capable of producing meaningful outcomes to the enterprise. Therefore, beneath the streams layer, a database layer gives the AI Applications Layer a place to store rapid-access data. Lastly, beneath the Database Layer, the Filesystem Layer stores archival data and even larger data structures for long-term storage in blockchains and flat file systems similar to the hard drive on a personal computer, albeit scaled to handle the data needs of an entire country and all its citizens or an entire ecommerce enterprise and all its customers.

**2.2.7.** In general, the relationship between resource consumption and the broader layers of architecture is not uniform, which lowers the total cost of ownership (TCO). The data fabric cluster is a conglomeration of systems that operate independently of the top-level systems. Each department or ministry may have its services built into silos with different capabilities and various geographic locations on premise, in the cloud, or both. The standardization of data structures and exchange is the glue that holds it all together. All the layers are available to one another according to strict access controls that limit the scope of access to groups and users, which can be applications and people.

### **2.3. Long-term Migration Strategy**

#### **2.3.1. Strategic Operating Principles**

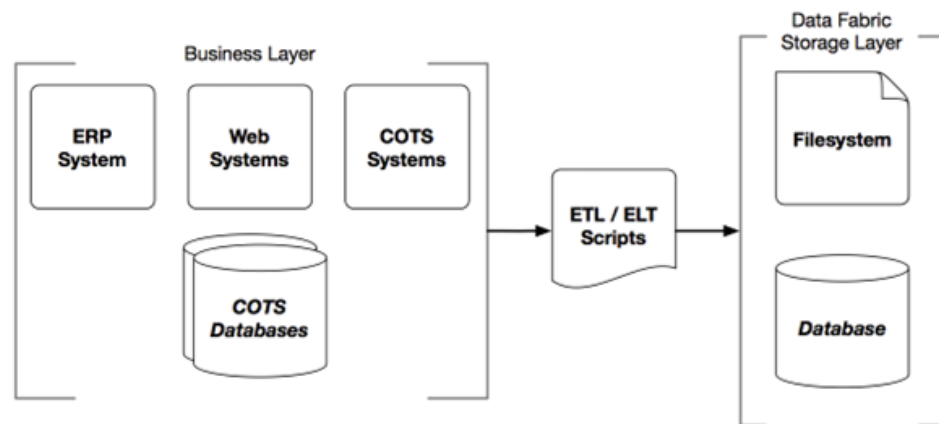
- a) Migrating and transitioning to a data fabric architecture benefits the whole organization by establishing standards of continuity and interoperability among departments whose needs can be divergent, therein preventing long-term incompatibilities, bottlenecks, and silos. In spite of the promise, there are no real-world “turn-key” solutions that do everything perfectly off the shelf. It will be the task of leadership to determine which software solutions will match the operational requirements in each category of the general data fabric architecture. Most important of all are the principles of operation that leadership needs to consider, which are agnostic to specific technologies. These pave the road to migration in a smooth transition. In general terms, these are:
  - (i) Standardization - Choose solutions that follow non-proprietary, open standards.
  - (ii) Interoperability - Standardized systems can migrate data easily as growth occurs.
  - (iii) Simplification - Only use what is needed to do the task, and no more.
  - (iv) Iteration - Improve the systems on a regular and predictable schedule.
  - (v) Security - Restrict access to everything, grant only what is needed to do the job.
- b) Many will still wonder how to get started when the current solution is monolithic and the scale seems enormous on all fronts? There are common patterns for inception, which this section is about to demonstrate. Generally, any large scale system can begin

as a stand-alone data collection architecture that grows iteratively into a full-scale machine learning ready infrastructure. All the following examples are general patterns, and therefore technology agnostic. It is important that your leadership conducts your own due diligence to determine which specific solutions will work for your specific case. Ultimately, the advice is to follow the examples as indicative patterns while keeping the principles above in mind.

### 2.3.2. Gathering Data

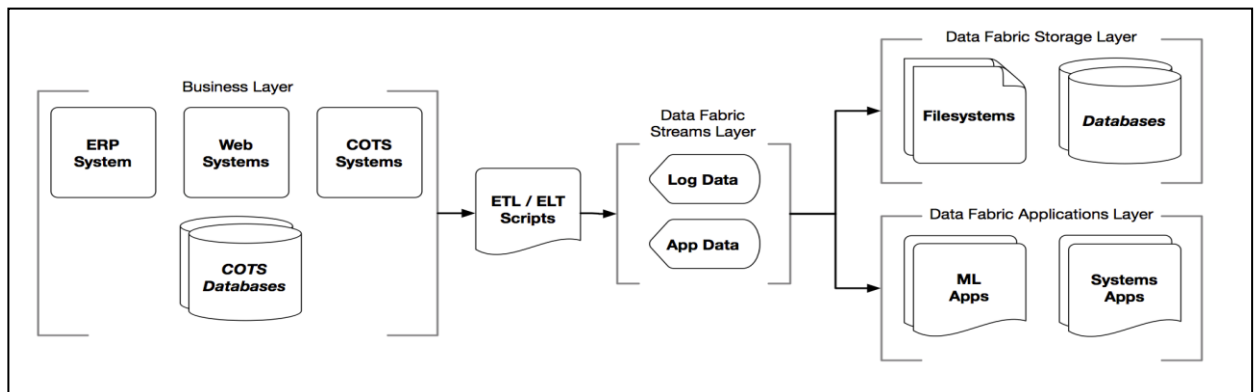
- a) Data is the bottom line in a data fabric architecture. Without quality data, there’s nothing to derive any decision-making value. The good news is that your organization is probably sitting on a trove of data at the moment. The challenge is that most organizations face two key issues that need to be addressed early-on: 1) data is trapped inside a database and 2) log data is underutilized. The figure below demonstrates the first phase of data collection on the path to migration.

- b) Inception Phase of Data Fabric Migration



- c) Extracting, loading, and transforming data from the business layer to a transactional log layer and standards-based database marks the first phase of migration. In this model, the business layer is a collection of potentially mature systems running on a “custom off the shelf” (COTS) data solution. Many large commercial database enterprises offer these types of integrated solutions, which seem a perfect fit at the onset, but eventually lose favor due to software constraints, maintenance costs, and proprietary standards. In this nascent stage of migration, data goes to two endpoints, one is the existing proprietary architecture and the other is the standards-driven data fabric architecture using scripts that detect changes and capture data for mass-consumption in the next phases.

## d) Next Phase of Data Collection

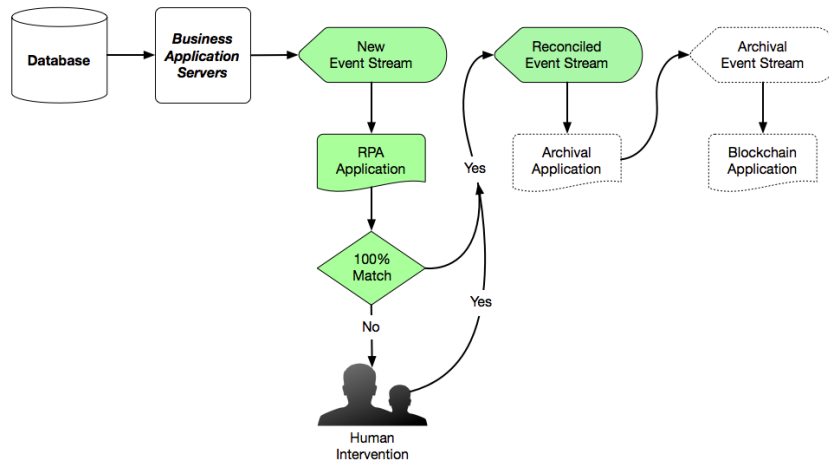


e) The figure above is an example of the next phase of iteration. In this next iteration of the data collection migration, the business layer feeds the ETL/ELT applications, which send data to the streams layer. Data in the streams layer can be picked up by worker applications that can partition and “cherry-pick” data for file systems, databases, ML applications, and systems applications as needed. Suddenly, the model runs in both legacy mode and begins to take the functional design of the general data fabric architecture. At this stage, systems of consumers and producers can emerge within the organization, which may serve various roles and patterns as needed and in parallel. New and old systems can operate simultaneously, while specific services emerge in parallel using the new emergent architecture. There is really little constraint on the scale of this pattern, and eventually an organization may choose to entirely migrate their business layer to a web services architecture built on a distributed system of containers and dedicated application services, as most globally-scaled web applications do today.

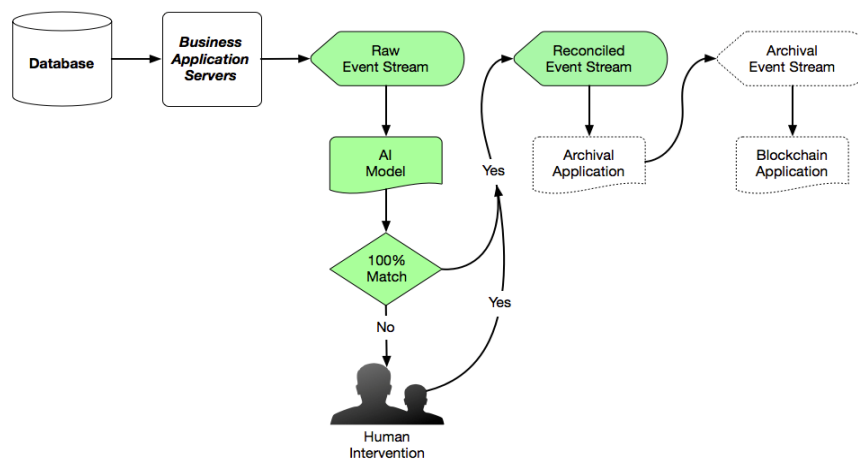
### 2.3.3. Crunching Data

a) The figures below demonstrate basic application workflows for machine learning (ML) and robotic process automation (RPA) using the data fabric architecture pattern. Beginning with the latter, the similarities become readily apparent, as do the connections with the relevant components within the various layers of a healthy data fabric architecture.

## b) Robotic Process Automation Workflow



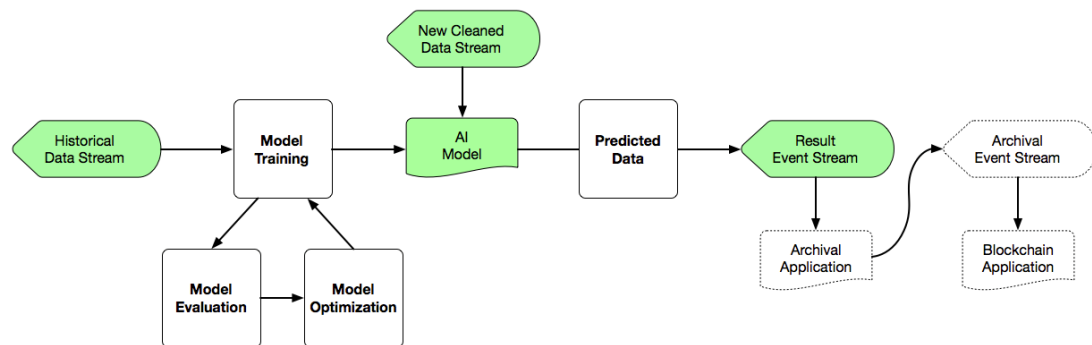
## c) Essential AI Application Workflow



- d) The two figures above demonstrate the general application of both ML/AI and RPA in the scope of the data fabric architecture. The only notable difference is the type of application that consumes the raw event stream from the business application servers. Both systems will generally require human intervention when the probability of certainty is lower than a particular “safe” threshold. Note also that the data from the application component is shown to flow into a “reconciled event stream” that any number of subsequent applications and systems can further consume. In these figures, an optional “archival application” consumes the reconciled stream, feeds an archival event stream, which a blockchain application consumes for archival purposes. The possibilities are really at your discretion.
- e) Next, our attention turns to ML and AI model development with streams inside the data fabric architecture. In the figure below, the data streams are condensed into a “historical

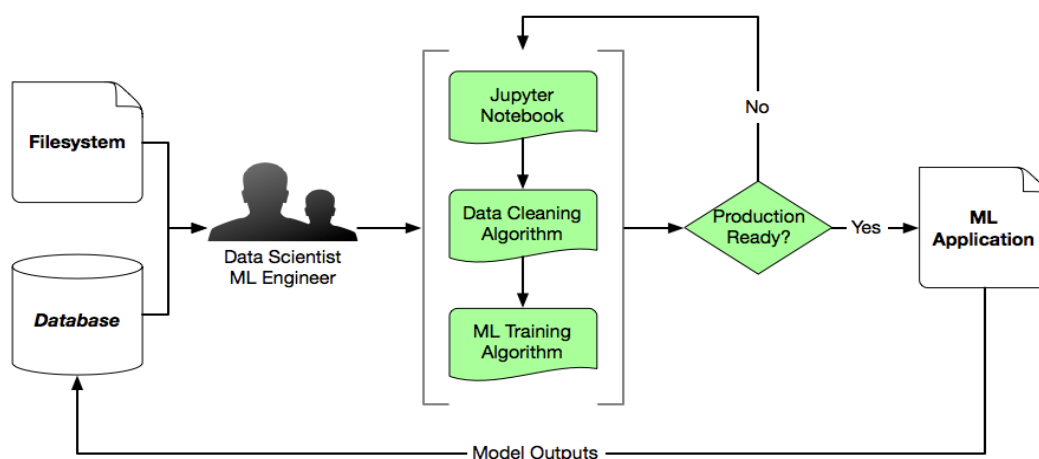
data stream”, which is utilized for training, evaluating, and optimizing possible ML models. Once trained and generally available, AI models can consume streams of new cleaned data to produce predicted data that we send to a result event stream. The same rules apply as above, so another application can authorize results for further processing and utility.

f) Essential AI Model Engineering Workflow



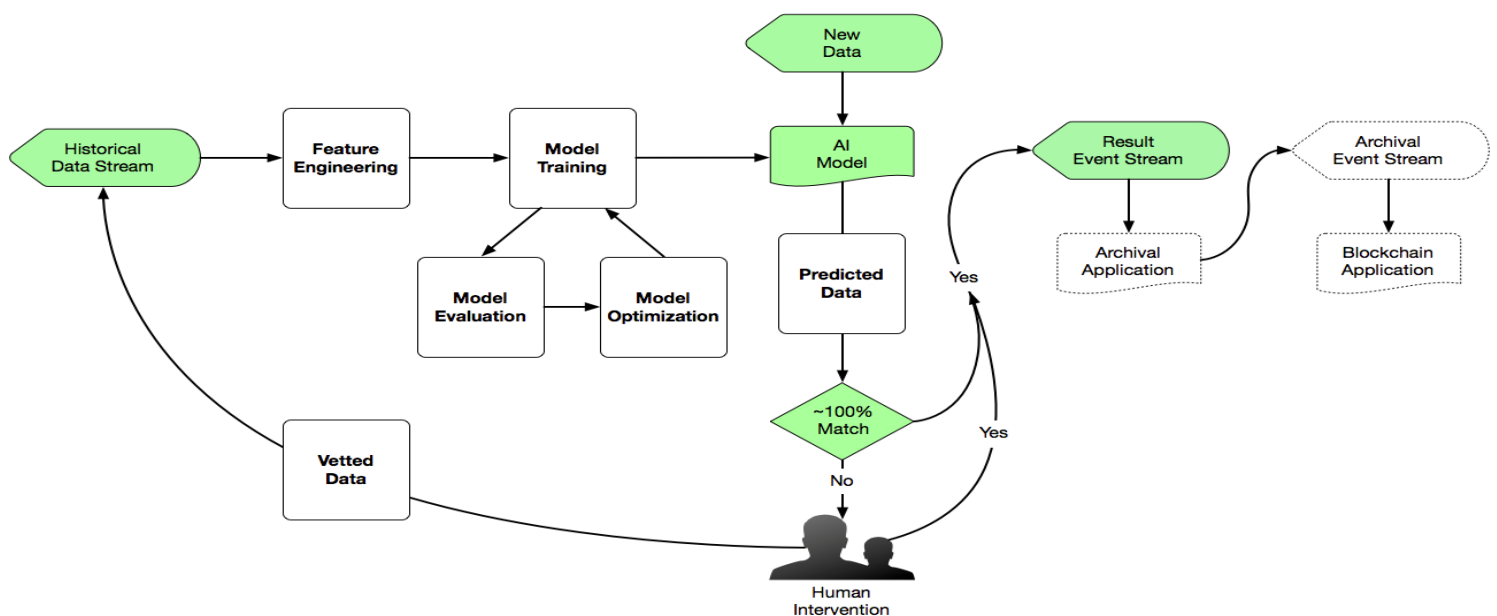
g) The figure below helps us understand the progression of ML engineering using data fabric architecture. In the figure, a data scientist can mount a volume of data from the storage layer and write a sequence of algorithmic steps inside a shareable notebook that cleans and trains models based on the data in stages of discovery. If the training models yield meaningful results, then the notebook makes the transition to ML application in full production within the broader process of ML application systems development.

h) Essential AI Model Training Workflow



Lastly, we take a look at the design of a more advanced ML training model in the figure below. In this pattern, feature engineering emerges as we derive new features from existing data, train, evaluate, optimize, and deploy models to produce predictions that will reinforce more accurate results if we reinforce our results with vetted data sent back into the historical data stream.

i) Enriched AI Model Engineering Workflow



- j) There are obvious interface points in all the above figures, which rely on the data fabric streams for relaying information between various systems of consumers and even more producers. This pattern unlocks a world of vast potential inside your organization’s architecture, however, it does not address the utility granted to the various roles and types of organizations. In the next section, we address the systems of data consumers and producers within organizations with emphasis on benefits to roles within the organization.

## 2.4. SUMMARY OF STRATEGY

- a) Subsystems to follow will specify priority, justification, and requirements.
- b) Priority is ranked P1-P4 and accounts for various resource and sequential dependencies.
- c) The goal is to allocate core systems for use as foundational elements in subsequent iterations of development and capital allocation.

### 2.4.1. SUBSYSTEM 1 - Data Cleansing

#### 2.4.1.1. Priority Level - P1

#### 2.4.1.2. Justification

- a) The data cleansing subsystem will implement a storage layer that enables the collection and store of data.
- b) The storage layer will quickly become the foundation for key data cleansing, discovery, and experimentation with ML/AI models for the long term operation.
- c) The storage layer will also serve as a foundation for the application and streaming layers in the complete architecture.

#### 2.4.1.3. HUMAN RESOURCE REQUIREMENTS

- 1) Systems Administrator
- 2) At least one Data Scientist

2.4.1.4. This subsystem contains the primary mechanism for ensuring the integrity of data within the entire Object Management System using good practices for the prevention of bias, and inconsistency throughout the infrastructure.

2.4.1.5. This Subsystem shall provide the ability to algorithmically consume a stream of incoming data.

2.4.1.6. This Subsystem shall eliminate and mitigate, wherever possible, against the following forms of data corruption:

- 1) Sparse records with incomplete required data properties or attributes.
- 2) Corrupt records with erroneous or harmful data properties or attributes.
- 3) Blank records that do not contain any data properties or attributes.
- 4) Unauthorized data types.
- 5) Spam data.

2.4.1.7. This Subsystem will allow users to implement data enrichment algorithms for additional parametrization using the Big Data Processing and Integration Subsystem.

2.4.1.8. This Subsystem will write data into the Object Management Subsystem.

2.4.1.9. This Subsystem will restrict access to authorized users only.

2.4.1.10. This Subsystem utilizes a command line interface to launch an interactive interface for cleansing and de-duplicating data using Jupyter notebook files or standalone python programs written by Data Engineers.

2.4.1.11. The resulting data cleansing programs can run in production as Python programs in notebook or simplified format.

This Subsystem will ensure detection and marking for duplicated objects including and not limited to units, goods, and services within the Object Management System.

## **2.4.2. SUBSYSTEM 2 - Object Management**

### **2.4.3. PRIORITY LEVEL - P1**

### **2.4.4. JUSTIFICATION**

- a. The object management subsystem will provide a repository for semi-structured document data and structured data.
- b. This is a key component of the data storage layer needed for data collection, experimentation, and development.

### **2.4.5. HUMAN RESOURCE REQUIREMENTS**

- a) Same system administrator as data cleansing subsystem.

**2.4.6.** This Subsystem is the main repository of information that contains:

- a) all objects within the System, such as: products, goods, services, companies, owners, warehouses and storage places, buyers, etc.
- b) relationships of objects within the System, such as: ownership rights, belonging to product groups, similarity of companies and goods, deal items, etc.

**2.4.7.** Data within a subsystem must be stored as a connected graph. Subsystem users should have access to graph traversal tools without using external tools and DBMS.

**2.4.8.** Interaction of users with the subsystem should be carried out through a web interface with current versions of browsers.

**2.4.9.** Each subsystem object can have an unlimited number of properties. The subsystem should provide users with the ability to create new types of properties without the involvement of development staff.

- a) Object properties should have a range of values. Object properties values must be of the following types:
  - (i) Numerical,



- (ii) String,
- (iii) Boolean,
- (iv) Dates,
- (v) Geographic (GIS) coordinates,
- (vi) Addresses,
- (vii) Vectors (both sparse and dense formats),
- (viii) Computational values.

**2.4.10.** The subsystem should provide the ability to specify the calculation algorithm for the calculated properties of objects.

- a) The calculated property must be of a numeric or string value type.

**2.4.11.** If the number of property values available for selection is changed, the subsystem should automatically re-index and correctly set the already selected object property values.

- a) The subsystem should automatically determine the need to recalculate the calculated property if its child objects change.

**2.4.12.** The subsystem must have a set of tools to provide morphological search and dynamic filtering of objects based on the value of their properties – user shall be able to query objects based on free-form search string with the ability to dynamically narrow the search result based on selected object property values.

- a) It should be possible to control the indexing of object properties in order to affect the work of the morphological search algorithm of the subsystem.

**2.4.13.** The subsystem must have a set of tools to provide image-based search – user shall be able to query objects with related content similar to the images provided for the query.

**2.4.14.** The subsystem must provide a mechanism for the object to inherit properties from its parent objects (for example, a product must inherit the properties of its parent product group). A property can be inherited with or without a value selection.

**2.4.15.** Property inheritance can be limited (one or more options) by the type of objects to inherit, the name of the object to inherit, the type of relationship between the parent object and the property.

**2.4.16.** If an object loses its relationship with the parent object, all properties inherited from the parent must be decoupled from the object.

**2.4.17.** The subsystem must provide a mechanism for cloning object properties from parent objects.

- a) During the cloning process, a copy of the property of the parent object is created for an object with the same value range and relationship type.
- b) Cloning is allowed with or without a choice of property values.
- c) Cloning of a property can be limited (one or more options) by the type of objects to clone, the name of the object to clone, the type of relationship between the parent object and the property.
- d) If an object loses its relationship with the parent object, all properties with the clone deletion flag set that are cloned from the parent object must be deleted.

**2.4.18.** It should be possible to manage templates of key subsystem objects with all relevant properties. To work with templates, the mechanisms of inheritance and property cloning should be involved.

**2.4.19.** The subsystem should provide a mechanism for complex cloning, during which it will perform both the cloning of the property itself and the linking of the new property to the associated properties of the cloned property. As an example, linking a unit of measure to a cloned property of a product or service, linking a currency to the price of a batch of goods.

**2.4.20.** The subsystem must record the history of changes in the value of numerical and calculated properties in the time series format for subsequent analytics.

- a) The subsystem must record the history of changes in the value of string and logical properties in the format of the operation log.

**2.4.21.** The subsystem must provide the ability to bind the status model to the object.

- a) Each status can have multiple states.
- b) It must be possible to transfer a status from one state to another.
- c) During the transition between status states, checks of predefined conditions can be performed, in case of which the transfer will not be performed if they are not met.

**2.4.22.** The subsystem should provide a mechanism for delimiting user access rights at the level of objects and their properties.

- a) The level of access must be governed by a unique access group.
- b) The following levels of access must be provided:
  - (i) View object or property;
  - (ii) Change object's status state;
  - (iii) Link objects (with another object or property);
  - (iv) Change object data;
  - (v) Delete object.
- c) Access groups can be combined into roles.
- d) Users must be able to belong to one or more access groups and roles.
- e) A limited set of users should be able to completely delete an object from the archive if necessary.

**2.4.23.** A mechanism for logging all subsystem events must be implemented, available to a limited list of users of the subsystem.

**2.4.24.** If an object is deleted, the subsystem must check all objects and properties associated with it in the context of inheritance and cloning mechanisms. The objects and properties to be deleted as a result of the check should be automatically deleted.

**2.4.25.** A mechanism for archiving (partial deletion) of an object should be provided, allowing users with the appropriate rights to:

- a) Transfer the object to the archive (excluding it from operational processes);
- b) Restore the object from the archive if necessary.

**2.4.26.** Each subsystem object must have a custom web form that displays all the key properties of the object and additional analytics (if necessary):

- a) Similar objects and search query results;
- b) Visualization of connections with other objects of the subsystem;
- c) Events associated with the object.

**2.4.27.** This Subsystem should be scalable and allow Customer to add additional hardware resources (nodes) to satisfy data growing and performance needs.

**2.4.28.** This Subsystem must be built using parallel computing technologies that allow distributing the operations of the subsystem over several physical nodes/servers.

**2.4.29.** This Subsystem should be able to store on its data warehouse about 50 million of objects at a minimum without the need for re-architecture.

**2.4.30.** This Subsystem shall ensure:

- a) Ability to manage (create, modify, delete) a structured directory (tree) of all subsystem objects. Each object can have an unlimited number of parents and children. The depth of the directory should not have significant restrictions.
- b) Ability to maintain a register of business entities. Including their properties, documents, description, and any other information necessary for the activities of the SRS.
- c) Ability to maintain a register of storage points (warehouses). Including their properties, addresses and coordinates, description and any other information necessary for the activities of the SRS. The subsystem should automatically recognize the coordinates of the points of storage of goods by their address.
- d) Ability to maintain a register of goods and services. Including their properties, description, photo and video materials and any other information necessary for the activities of the SRS.
- e) The process of automatic detection and processing of duplicated objects (goods and services, business entities, units) using artificial intelligence technologies. The process can be carried out both automatically and manually, with the final decision being made by the user. Processing involves the merging of duplicated objects with the preservation of all properties and the history of changes in their values.

- f) Possibility of accounting for balances in warehouses with fixation of the full history of stock movements and visualization of this history in the form of a graph.
- g) The process of automatic classification and grouping of objects for further analysis.
- h) The ability to capture and track ownership rights (individuals and business entities) with a deep analysis of the chains of beneficiaries and affiliates.
- i) Tracking the flow of imported and exported goods.
- j) Tracking technological maps of products and production supply chains.
- k) Tracking cash register equipment owned by business entities. The subsystem should automatically translate the address of the cash register equipment into geographic coordinates.
- l) Ability to effectively perform analytical queries and studies of the object (structured) data of the System.

**2.4.31.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

## **2.5. SUBSYSTEM 3 - Big Data Processing and Integration**

### **2.5.1. PRIORITY LEVEL - P2**

### **2.5.2. JUSTIFICATION**

- a) Once the data cleansing system and the object management systems are live, this subsystem will become necessary to support the core project goals.
- b) Machine learning and data engineering rely heavily on this subsystem.

### **2.5.3. HUMAN RESOURCE REQUIREMENTS**

- a) At least one additional data engineer.
- b) One additional systems engineer.
- c) One staff engineer to organize ML code deployment.
- d) QA Engineer

**2.5.4.** This Subsystem enables a reliable and secure streaming environment for real-time message relay and secure information exchange between various interdependent external programs.

**2.5.5.** This Subsystem shall utilize one or more of the following streaming service mechanisms for message distribution among programs:

- a) Producer-Subscriber Service Model
- b) Change Streams Service Model
- c) Message Queue Service
- d) Micro-Batch Service

- 2.5.6.** Messages within the framework of information exchange between subsystems must be processed with fault-tolerant software message queues.
- a) There should be a mechanism for monitoring the status of queues and viewing messages stored in them through a web interface.
- 2.5.7.** This Subsystem will interface with any number of external, interdependent applications with little or no awareness of the stream origins.
- 2.5.8.** This Subsystem will serve data through a list of topics relevant to external applications.
- 2.5.9.** This Subsystem should also provide a full scale firehose of data.
- 2.5.10.** This Subsystem should also enable map-reduce or equivalent algorithmic reductions to filter and aggregate data as needed.
- a) Such an operation may be an external process or built-in feature.
- 2.5.11.** This Subsystem may be fully synchronized with the Object Management System.
- 2.5.12.** This Subsystem should enable full-scale sorting, processing, aggregation, and reduction capabilities.
- 2.5.13.** In order to provide a means of interaction with the System for SRS information systems (and other external systems), a “RESTful” Application Programming Interface (API) must be developed for the subsystem.
- a) Application Programming Interface should contain all the necessary methods for complete and effective communications with all SRS and other information systems of Armenia.
- b) Access to subsystem API should be based on the roles and access groups specified in the Objects Management Subsystem.

**2.5.14.** All information exchange between the components of the System must be carried out through the subsystem.

**2.5.15.** Integration Subsystem must be built using parallel computing technologies that allow distributing the operations of the subsystem over several physical nodes/servers.

**2.5.16.** There should also be a mechanism for regularly loading and processing data from CSV, TSV, and JSON files.

**2.5.17.** The data from external systems should be loaded periodically (the periods will be defined by Customer) and all changes in data from external systems should be reflected on the respectful subsystems of the System.

**2.5.18.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

## **2.6. SUBSYSTEM 4 - Business Intelligence (BI)**

### **2.6.1. PRIORITY LEVEL - P3**

### **2.6.2. JUSTIFICATION -**

- a) Once enough data is available, core experimentation and development will be well underway with machine learning.
- b) Databases will be able to support business intelligence reporting after core ML processing pipeline is active.

### **2.6.3. HUMAN RESOURCE REQUIREMENTS**

- a) DB Administrator
- b) Lead Business Analyst
- c) Expanding to Staff Business Analyst with necessary demand.

**2.6.4.** This Subsystem enables the implementation of data analysis using dashboard tools for rendering optimization using visual interfaces.

**2.6.5.** This Subsystem can utilize SQL-like queries to access transactional data, document data, and structured RDBMS or non-relational DBMS data alike.

**2.6.6.** Fully developed queries in this subsystem should utilize RDBMS/non relational DBMS as often as possible once BI parameters reach maturity.

- a) Any data lakehouse solutions must transition to RDBMS/non relational DBMS at maturity.
- b) Any transactional solutions must transition to RDBMS/non relational DBMS at maturity.
- c) Any document database solutions must transition to RDBMS/non relational DBMS at maturity.

- 2.6.7.** This Subsystem may utilize turnkey software to produce standardized reports.
- 2.6.8.** This Subsystem is not for machine learning analysis, but strictly for operational reporting using dashboards.
- 2.6.9.** This Subsystem is for business intelligence analysts, and access controls must restrict administrative access to BI tools accordingly.
- 2.6.10.** This Subsystem must utilize web services and HTML portals wherever possible. No “thick client” or “monolithic” applications that require installation on users’ computers are permitted.
- 2.6.11.** This Subsystem must provide the means of developing custom queries and visualizations for any number of proprietary intelligence scenarios.
- 2.6.12.** This Subsystem provides users with a set of tools for visualizing the results of analytical queries processed by other subsystems.
- 2.6.13.** Interaction of users with the subsystem should be carried out through a web interface with current versions of browsers.
- 2.6.14.** The subsystem must be fully synchronized with the Objects Management Subsystem and Operations Management Subsystem.
- 2.6.15.** Access to subsystem reports and visualizations should be based on the roles and access groups specified in the Objects Management Subsystem.
- 2.6.16.** The subsystem should allow storing produced analytical reports in XLS and PDF formats.
- 2.6.17.** The subsystem should allow visualization of analytical reports in different charts and graphics:
  - a) Horizontal bars,
  - b) Vertical bars,
  - c) Areas (including percentage and stacked),
  - d) Lines,
  - e) Donuts/pies,
  - f) Treemaps,
  - g) Heatmaps,
  - h) Interactive graph visualizations.

- 2.6.18.** The subsystem should allow visualization of geo-data with layered maps.
- 2.6.19.** The subsystem should provide tools which will allow Customer do compose, define and share with other users his own dashboards.
- 2.6.20.** The subsystem should allow user to "drill down" statistical and analytical reports.
- 2.6.21.** The subsystem must support the synchronous application of filters and search queries for all dashboard elements (widgets).
- 2.6.22.** The subsystem should provide tools for data filtering and sorting by:
- a) The value of the objects properties;
  - b) Geo-polygons (GIS vertex coordinates);
  - c) Time range.
- 2.6.23.** The subsystem must have a set of tools to visualize and explore the data stored in Objects Management Subsystem in a linked graph format:
- a) Visualization of objects and their relationships;
  - b) Interactive expansion and traversal of objects;
  - c) Complex graph query builder.
- 2.6.24.** The subsystem should generate output information in the following statistical and analytical formats:
- a) XLS,
  - b) PDF,
  - c) XML,
  - d) CSV,
  - e) TSV,
  - f) JSON
- 2.6.25.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.
- 2.6.26.** (See the List of Analytical Reports and Visualizations to be developed in the Attachment 2)

## **2.7. SUBSYSTEM 5 -Software Administration**

### **2.7.1. PRIORITY LEVEL - P3**

### **2.7.2. JUSTIFICATION**

- a) This system will remain fundamentally simplistic in P1-P2 stages.
- b) Need for a dedicated software administration systems will emerge as replication and redundancy best practices become essential to managing mid/late stage hardware topologies, containerized virtual software deployments, and continuous integration pipelines.

### **2.7.3. HUMAN RESOURCE REQUIREMENTS**

- a) Lead Systems Administrator



- b) Responsibilities can delegate to Staff Systems Administrator

**2.7.4.** This Subsystem is the primary system of administering and monitoring the software processes distributed across any number of physical and logical volumes, including rack units, virtual machines, containers.

**2.7.5.** Access to this Subsystem data should be based on the roles and access groups specified in the Object Management Subsystem and requires the highest level of clearance due to the sensitivity of information and processes associated with this Subsystem.

**2.7.6.** This Subsystem must display the following data about software processes in real time:

- a) CPU Utilization
- b) Memory Utilization
- c) Disk Utilization
- d) Process ID
- e) Container ID
- f) Uptime
- g) Number of Restarts
- h) Group/Owner ID

**2.7.7.** This Subsystem should display administrative information about any containerization implementations throughout the architecture, including all above process information for each container.

**2.7.8.** This Subsystem will allow engineers to start, stop, restart, kill, and delete processes throughout the software infrastructure.

**2.7.9.** This Subsystem includes version control systems for storing, testing, and auto-deployment of new software source codes.

- a) Includes Continuous Integration (CI) tools;
- b) Includes Testing tools;
- c) Includes ticket tracking system for bugs, feature requests, and interfaces for user-based project management tools.

**2.7.10.** In order to provide a means of interaction with this Subsystem for SRS information systems (and other external systems), a “RESTful” Application Programming Interface (API) must be available for the subsystem.

- a) Application Programming Interface should contain all the necessary methods for complete and effective communications with all SRS and other information systems of Armenia.

**2.7.11.** All *mission critical software* must have, at a minimum, three (3) instances of the software application in operation at all times.

- a) Mission critical software is qualified as software that will cause a downstream failure of essential functions according to business continuity planning criteria.

**2.7.12.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

**2.8. SUBSYSTEM 6 -Hardware Administration**

**2.8.1. PRIORITY LEVEL - P4**

**2.8.2. JUSTIFICATION**

- a) This system will remain fundamentally simplistic in P1-P3 stages.
- b) Need for a dedicated hardware administration systems will emerge as replication and redundancy best practices become essential to managing mid/late stage hardware topologies.

**2.8.3. HUMAN RESOURCE REQUIREMENTS**

- a) Lead Systems Administrator
- b) Later, Staff Systems Administrators once workloads require further intervention.

**2.8.4.** This Subsystem is the primary system of administering and monitoring the hardware processes distributed across any number of physical nodes, including rack units, nodes, and virtual hardware systems.

**2.8.5.** Access to this Subsystem data should be based on the roles and access groups specified in the Object Management Subsystem and requires the highest level of clearance due to the sensitivity of information.

**2.8.6.** This Subsystem must display the following data about the hardware in real time:

- a) Current CPU Utilization
- b) Current Memory Utilization
- c) Current Disk Utilization
- d) Current Network Utilization
- e) Total Available Disk Storage
- f) Total Available Memory
- g) Total CPU
- h) Network Information
  - (i) IP(s)
  - (ii) Subnet(s)
  - (iii) Mac Address(es)
- i) Node ID
- j) Current Uptime
- k) Last Restart Time
- l) Physical Location

**2.8.7.** In order to provide a means of interaction with this Subsystem for SRS information systems (and other external systems), a command line interface (CLI), API, and web-based user interface must be available to authorized users in SRS.

- a) Interfaces must include access to filtering mechanisms based on the display parameters above.
- b) Interfaces must provide a means to control node operations remotely for troubleshooting and diagnostics.
- c) Interfaces must provide a means to connect to cloud-based third-party services.

**2.8.8.** All hardware must always maintain, at a minimum, three (3) replicas of existing commodity hardware units ready for operation in the event of hardware failure and failover.

**2.8.9.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

## **2.9. SUBSYSTEM 7 -Operations Management**

**2.9.1. PRIORITY LEVEL - P4**

**2.9.2. JUSTIFICATION -** This lower priority system depends on P1-P3 subsystems before utility will be realized by the organization.

**2.9.3. HUMAN RESOURCE REQUIREMENTS -** Staff Business Analyst at a minimum with support from SW Engineering and systems administration.

**2.9.4.** This Subsystem is the main repository of information about all operational data within the System, such as:

- a) Sales;
- b) Deals;
- c) Invoices;
- d) Payments;
- e) Custom goods declarations;
- f) Stock transfers;
- g) Other actionable events.

**2.9.5.** Data within subsystems must be stored as a collection of documents (independent records).

- a) Subsystem users should have access to data without using external tools and DBMS.

**2.9.6.** Interaction of users with the subsystem should be carried out through a web interface with current versions of browsers.

**2.9.7.** This Subsystem must be fully synchronized with the Object Management Subsystem.

- a) Operations can have properties of objects associated with them.

- 2.9.8.** This Subsystem must have a set of tools to provide morphological search and dynamic filtering of operations based on the value of their properties.
- a) User shall be able to query operations based on free-form search string with the ability to dynamically narrow the search result based on selected operations property values.
- 2.9.9.** Access to this Subsystem data should be based on the roles and access groups specified in the Object Management Subsystem.
- 2.9.10.** This Subsystem should provide tools for operational data filtering and sorting by:
- a) The value of the operation properties;  
b) Geo-polygons (GIS vertex coordinates);  
c) Time range.
- 2.9.11.** This Subsystem should provide tools for operational data aggregation by:
- a) The value of the operation properties  
a) Minimum;  
b) Maximum;  
c) Mean;  
d) Lambda Functions;  
e) String Values (codes, official properties, business entities types etc);  
f) Geo-polygons (GIS vertex coordinates);  
g) Nested aggregations (sequential aggregations of the above).
- 2.9.12.** This Subsystem should be scalable and allow Customer to add additional hardware resources (nodes) to satisfy data growing and performance needs without re-architecture.
- 2.9.13.** This Subsystem must be built using parallel computing technologies that allow distributing the operations of the subsystem over several physical nodes/servers.
- 2.9.14.** This Subsystem should be able to store on its data warehouse minimum 10 billion of operations.
- 2.9.15.** This Subsystem shall ensure:
- a) Ability to manage (create, modify, delete) a list of all subsystem operations. Each operation (sale, deal, declaration, etc.) shall be associated with its object, stored inside this Subsystem (person, business entity, etc.) with all necessary properties and access groups.  
b) Ability to efficiently perform analytical queries and aggregations with the operational data of this System.  
c) The Business Intelligence Subsystem, described in Subsystem 4 should be responsible for visualization of query results.
- 2.9.16.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

## **2.10. SUBSYSTEM 8 -Adaptive Machine Learning and Artificial Intelligence**

### **2.10.1. PRIORITY LEVEL - P1**

### **2.10.2. JUSTIFICATION**

- a) From the onset, machine learning capabilities will leverage any amount of data available in the object management and data cleansing subsystems.
- b) Capabilities will grow and scale with data volume and systems expansion.

### **2.10.3. HUMAN RESOURCE REQUIREMENTS**

- a) Lead Data Scientist
- b) Sr Machine Learning Engineer at a minimum.

**2.10.4.** The main task of this Subsystem is to ensure the functioning of the key processes of the System related to machine learning technologies. These processes include but are not limited to:

- a) Statistical sample data cleansing, normalization, and evaluation;
- b) Jupyter notebook access to manipulate sample data for training ML models, testing, and production application models;
- c) Service oriented machine learning model evaluation;
- d) Regular unsupervised training of active neural networks;
- e) Parameter detection and hyperparameter tuning;
- f) Vector calculations for system objects,
- g) Anomaly detection;
- h) Algorithmic model development.

**2.10.5.** Wherever possible, user interaction with operational components of the subsystem should be carried out through a web interface with current versions of browsers.

**2.10.6.** The subsystem must be fully synchronized with the Object Management Subsystem and Operations Management Subsystem.

- a) Subsystem users should be able to visualize objects and their features in the form of a graph.
- b) Subsystem users must be able to run query operations to extract subsets of the objects in various storage locations.

- 2.10.7.** All object’s features should be stored inside the Object Management Subsystem.
- 2.10.8.** The results of the work of this Subsystem should be transferred to the Object Management Subsystem as an object containing the status change and results of the ML operations.
- 2.10.9.** This Subsystem must be built based on open-source libraries and platforms and not be subject to vendor lock-in through the use of proprietary hardware of software.
- 2.10.10.** This Subsystem shall ensure:
- a) Search for abnormal deviations in changes in the values of key indicators of economic entities, such as: sales, prices, stocks, etc.
  - b) Automatic clustering of key objects of the System, such as business entities, commodity groups, etc.
- 2.10.11.** This Subsystem should capture and store operational event log data for audit and archive wherever possible.

## **2.11. SUBSYSTEM 9 - Security**

### **2.11.1. PRIORITY LEVEL - P1**

#### **2.11.2. JUSTIFICATION**

- a) Any server resources, beginning with the first deployment, require strict security standards and threat protections. Security strategy will expand with data scale and systems capacity requirements.

#### **2.11.3. HUMAN RESOURCE REQUIREMENTS**

- a) Lead Systems Administrator at a minimum.

**2.11.4.** The main task of this Subsystem is to protect all other Systems infrastructure from unauthorized access, exploitation, denial of service, and data breaches.

**2.11.5.** To prevent unauthorized access to any web-based resources, this Subsystem will implement the following requirements:

- a) Disable the root user for all resources throughout the infrastructure.
- b) Implement two-factor authentication schemes for all users.
- c) Implement the highest rated SSL/TLS certificate encryption for all web services and web-based resources without exception.
  - (i) All sites, internal and external, must establish HTTPS.
- a) Implement Central User Access database.
- b) Implement Portable Operating System Interface (POSIX) compatible Access-Control Lists.
  - (i) Permissions must be assignable to groups and individual users.

**2.11.6.** To prevent unauthorized access to computing servers and hardware systems (both logical and physical), the Subsystem will implement the following requirements:

- a) Disable root user accounts from all nodes.

- b) Disable Key-less SSH access.
- c) Require RSA or ECDSA key access for all SSH access.
  - (i) Require passwords for all SSH keys.
  - (ii) Require SSH Key refreshes every 90 days.
- d) Maintain continuous required audit log of port scanning detections for open back-door connections.
- e) Encrypt all machine-to-machine connections using the highest rated SSL/TLS certificate encryption for any web services connections.
- f) Throttle all connection requests that exceed the boundaries of standard internal practices.
- g) Restrict internal machine-to-machine connections using restrictive software subnet firewall policies (not permissive) under the following steps.
  - (i) Close all access to all users on all ports, save only the internal administrator, whose access is granted ONLY from INSIDE the subnet.
  - (ii) Close all external access to all services on all ports.
  - (iii) Determine which users and services must have long-term access.
  - (iv) Grant internal access for only those users from within the subnet.
  - (v) Grant temporary access for short term users from within the subnet.
  - (vi) Follow the guidelines in I.N.10.c above.
  - (vii) Grant machines access to services using internal subnet addresses, including ports.

**2.11.7.** To prevent hostile exploitation and combat external threats, this Subsystem will employ an internal security specialist familiar with “white hat” hacking techniques to willfully and proactively detect, identify, and exploit external security vulnerabilities before they can be detected and exploited by external actors.

**2.11.8.** This Subsystem MUST capture and store security event log data for audit and archive wherever possible.

- a) This Subsystem must alert all detected threats.

**2.11.9.** This Subsystem must reroute compromised connection requests to services that exceed known operational guidelines.

## Attachment 2: List of Analytical Reports

No:	Generated Reports and Visualizations Description
1	Generating total sales of goods and services, displayed on the map of Armenia in the form of clusters layer. The cluster size is determined by the sum of goods and services sold.
2	Generating total sales of goods and services, displayed on the map of Armenia in the form of clusters layer. The cluster size is determined by the quantity of goods and services sold.
3	Generating total sales of goods and services, displayed on the map of Armenia in the form of square sectors layer. The sector color is determined by the sum of goods and services sold.
4	Generating total sales of goods and services, displayed on the map of Armenia in the form of square sectors layer. The sector color is determined by the quantity of goods and services sold.
5	Generating total sales of goods and services, displayed on the map of Armenia in the form of heat map layer. The heatmap color is determined by the sum of goods and services sold.
6	Generating total sales of goods and services, displayed on the map of Armenia in the form of heat map layer. The heatmap color is determined by the quantity of goods and services sold.
7	Generating a line chart of the dynamics of the number of sales for selected product groups and filter by time range or properties.
8	Generating a line chart of the dynamics of the total sum of sales for selected product groups and filter by time range or properties.
9	Generating a line chart of the dynamics of the total sum of taxes for selected product groups and filter by time range or properties.
10	Generating list of taxpayers with the ability to sort by total sales and filter by time range or properties.
11	Generating list of regions with the ability to sort by total sales and filter by time range or properties.
12	Generating list of products and services with the ability to sort by total sales and filter by time range or properties.
13	Generating a list of key indicator values: number of product sales, sales amount with taxes, tax amount, average sale.
14	Generating a line chart showing the planned / expected and actual dynamics of changes in key indicators of economic entities: sales, taxes.



15	Generating a line chart showing the dynamics of changes in stock balances for the period for selected product groups.
16	Generating list of cash machines with the ability to sort by total sales and filter by time range or properties.
17	Generating pie chart of business entity grouped by total sales and sale types and sorted by total sales.
18	Generating pie chart of business entity grouped and sorted by paid taxes.
19	Generating a distribution of coupons by total amount.
20	Generating a visualization of the structure of company owners (individuals and legal entities) in the form of a connected graph with the possibility of disclosing additional levels of ownership.
21	Generating a visualization of the structure of interaction (exchange of goods and services) between business entities with display of the direction of interaction (from supplier to consumer) and the possibility of revealing additional levels of interaction.
22	Generating a visualization of the movement of stocks between warehouses (including warehouses of various business entities). The starting point of stock movement may be a customs declaration or production documents, which must be also visualized as a related object.
23	Generating a list of similar goods and services based on the results of the work of Machine Learning and Artificial Intelligence Workflow Subsystem. The list should contain a quantitative assessment of the relevance of each found object.
24	Generating a list of similar business entities based on the results of the work of Machine Learning and Artificial Intelligence Workflow Subsystem. The list should contain a quantitative assessment of the relevance of each found object.
25	Generating a list of objects for which an automatic operation of merging and clearing duplicates was performed.

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## **F. IMPLEMENTATION SCHEDULES**

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## **Table of Contents: Implementation Schedule**

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### 6.1 IMPLEMENTATION SCHEDULE TABLE

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
0	Project Plan	SRC ITD			1	2	NO
1	<b>PHASE 1</b> <b>Developing technical documentation of the system</b>		1		6		

<sup>9</sup> Before Final Delivery/ Installation of the relevant Subsystem / Component/ Item, the Bidder will submit the Draft/Preliminary version of the deliverables for consideration of Purchase.

<sup>10</sup> Liquidated Damages will be applied in the event the delay of the deliverables that the Supplier fails to submit by its respective due date specified under Column No 6 “Final Delivery/ Installation”.

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
1.1	Preparing of Data Management and Analysis System (DMAS) Detailed Functional Requirements	SRC ITD	1		3	8	NO
1.2	Security System Detailed Functional Requirements	SRC ITD	4		6	8	NO
	<b>Acceptance of Phase 1</b>		7			8	
<b>2.</b>	<b>PHASE 2 Development of Data Management and Analysis System</b>		<b>9</b>		<b>32</b>		
2.1	Development of Security Subsystem	SRC ITD	9		10	34	YES
2.2	Testing of Security Subsystem	SRC ITD	11		12	34	YES

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
2.3	Development of Data Cleansing Subsystem	SRC ITD	13		14	34	YES
2.4	Development of Hardware Administration System	SRC ITD	15		16	34	YES
2.5	Development of Software Administration System	SRC ITD	17		18	34	YES
2.6	Development of Object Management System	SRC ITD	19		20	34	YES
2.7	Development of Big Data Processing and Integration Subsystem	SRC ITD	21		22	34	YES

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
2.8	Testing of Hardware Administration System	SRC ITD	23		24	34	YES
2.9	Testing of Software Administration System	SRC ITD	25		26	34	YES
2.10	Testing of Object Management System	SRC ITD	27		28	34	YES
2.11	Testing of Big Data Processing and Integration Subsystem	SRC ITD	29		30	34	YES
2.12	End-to-End Acceptance testing of Phase 2 Data Management and Analysis System	SRC ITD	31		32	34	YES

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
	<b>Acceptance of Phase 2</b>		33			34	
<b>3.</b>	<b>PHASE 3 Development of Operations Management Subsystem (including Adaptive Machine Learning and Artificial Intelligence Subsystem)</b>		<b>35</b>		<b>42</b>		
3.1	Development of Operations Management Subsystem	SRC ITD	35		36	44	YES
3.2	Development of Adaptive Machine Learning and Artificial Intelligence Subsystem	SRC ITD	37		38	44	YES



Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
3.3	Testing of Operations Management Subsystem	SRC ITD	39		40	44	YES
3.4	Testing of Adaptive Machine Learning and Artificial Intelligence Subsystem	SRC ITD	41		42	44	YES
	<b>Acceptance of Phase 3</b>		43			44	
<b>4</b>	<b>PHASE 4 Development of BI Subsystem</b>		<b>45</b>		<b>47</b>		
4.1	Development of BI subsystem	SRC ITD	45		46	49	YES
4.2	Testing of BI subsystem	SRC ITD	46		47	49	YES

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
	<b>Acceptance of Phase 4</b>		48			49	
<b>5</b>	<b>PHASE 5 Production Installation of Data Management and Analysis System</b>		<b>50</b>		<b>52</b>		
5.1	Production installation of Data Management system	SRC ITD	50		51	52	YES
5.2	End-to-End Quality Assurance of the Core System	SRC ITD	52		52	52	YES
5.3	User Trainings	SRC ITD	52		52	52	NO
5.4	Technical Documents and Source Codes	SRC ITD	52		52	52	NO
	<b>Acceptance of Phase 5</b>		51			52	

Implementation Schedule Table							
1	2	3	4	5	6	7	8
Line Item No.	Subsystem / Component/ Item	Site / Site Code	Start/Commencement date (weeks from Effectiveness)	Preliminary Delivery, if required <sup>9</sup> (weeks from Effective Date)	Final Delivery/ Installation (weeks from Effective Date)	Acceptance (weeks from Effective Date)	Liquidated Damages Milestone <sup>10</sup>
6.	Operational Acceptance of the System as an integrated whole		50			53	YES
7.	Warranty Period	SRC ITD	53			105	YES

6.2 SITE TABLE(S)

Site Code	Site	City / Town / Region	Primary Street Address
SRC ITD	STATE REVENUE COMMITTEE (IT DEPARTMENT)	Armenia, 0051, Yerevan	Aharonyan St., 12/3 Building

6.3 TABLE OF HOLIDAYS AND OTHER NON-WORKING DAYS

Month	2023-2024
1 (January)	1,2, 6, 28
2 (February)	
3 (March)	8
4 (April)	24
5 (May)	1, 9, 28
6 (June)	
7 (July)	5
8 (August)	

Month	2023-2024
9 (September)	21
10 (October)	
11 (November)	
12 (December)	31

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## **G. SYSTEM INVENTORY TABLES**

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## 7.1 SYSTEM INVENTORY TABLE (SUPPLY AND INSTALLATION COST ITEMS)

Line item number: *entire System procurement*

Component No.	Component	Site Information	Quantity
0	Project Plan	SRC ITD	1
<b>1</b>	<b>PHASE 1</b> <b>Developing technical documentation of the system</b>		
1.1	Preparing of Data Management and Analysis System (DMAS) Detailed Functional Requirements	SRC ITD	1
1.2	Security System Detailed Functional Requirements	SRC ITD	1
	<b>Acceptance of Phase 1</b>		
<b>2.</b>	<b>PHASE 2</b> <b>Development of Data Management and Analysis System</b>		
2.1	Development of Security Subsystem	SRC ITD	1
2.2	Testing of Security Subsystem	SRC ITD	x
2.3	Development of Data Cleansing Subsystem	SRC ITD	1
2.4	Development of Hardware Administration System	SRC ITD	1
2.5	Development of Software Administration System	SRC ITD	1
2.6	Development of Object Management System	SRC ITD	1
2.7	Development of Big Data Processing and Integration Subsystem	SRC ITD	1

Component No.	Component	Site Information	Quantity
2.8	Testing of Hardware Administration System	SRC ITD	
2.9	Testing of Software Administration System	SRC ITD	x
2.10	Testing of Object Management System	SRC ITD	x
2.11	Testing of Big Data Processing and Integration Subsystem	SRC ITD	x
2.12	End-to-End Acceptance testing of Phase 2 Data Management and Analysis System	SRC ITD	x
	<b>Acceptance of Phase 2</b>		
3	<b>PHASE 3 Development of Operations Management Subsystem (including Adaptive Machine Learning and Artificial Intelligence Subsystem)</b>		
3.1	Development of Operations Management Subsystem	SRC ITD	1
3.2	Development of Adaptive Machine Learning and Artificial Intelligence Subsystem	SRC ITD	1
3.3	Testing of Operations Management Subsystem	SRC ITD	x
3.4	Testing of Adaptive Machine Learning and Artificial Intelligence Subsystem	SRC ITD	x
	<b>Acceptance of Phase 3</b>		
4	<b>PHASE 4 Development of BI Subsystem</b>		
4.1	Development of BI subsystem	SRC ITD	1
4.2	Testing of BI subsystem	SRC ITD	x
	<b>Acceptance of Phase 4</b>		



Component No.	Component	Site Information	Quantity
<b>5</b>	<b>PHASE 5</b> <b>Production Installation of Data Management and Analysis System</b>		
5.1	Production installation of Data Management system	SRC ITD	1
5.2	End-to-End Quality Assurance of the Core System	SRC ITD	1
5.3	User Trainings	SRC ITD	1
5.4	Technical Documents and Source Codes	SRC ITD	1 (package)
	<b>Acceptance of Phase 5</b>		
6.	Operational Acceptance of the System as an integrated whole		x
7.	Warranty Period		x



# **PART 3 – CONDITIONS OF CONTRACT AND CONTRACT FORMS**

## **SECTION VIII - GENERAL CONDITIONS OF CONTRACT**

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# General Conditions of Contract

## A. CONTRACT AND INTERPRETATION

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### 1. Definitions

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

(a) contract elements

- (i) **“Contract”** means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein. The Contract Agreement and the Contract Documents shall constitute the Contract, and the term “the Contract” shall in all such documents be construed accordingly.
- (ii) **“Contract Documents”** means the documents specified in Article 1.1 (Contract Documents) of the Contract Agreement (including any amendments to these Documents).
- (iii) **“Contract Agreement”** means the agreement entered into between the Purchaser and the Supplier using the form of Contract Agreement contained in the Sample Contractual Forms Section of the bidding documents and any modifications to this form agreed to by the Purchaser and the Supplier. The date of the Contract Agreement shall be recorded in the signed form.
- (iv) **“GCC”** means the General Conditions of Contract.
- (v) **“SCC”** means the Special Conditions of Contract.
- (vi) **“Technical Requirements”** means the Technical Requirements in Section VII of the bidding documents.
- (vii) **“Implementation Schedule”** means the Implementation Schedule in Section VII of the bidding documents.
- (viii) **“Contract Price”** means the price or prices defined in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.

- (ix) **“Procurement Regulations”** refers to the edition **specified in the SCC** of the World Bank **“Procurement Regulations for IPF Borrowers”**.
- (x) **“bidding documents”** refers to the collection of documents issued by the Purchaser to instruct and inform potential suppliers of the processes for bidding, selection of the winning bid, and Contract formation, as well as the contractual conditions governing the relationship between the Purchaser and the Supplier. The General and Special Conditions of Contract, the Technical Requirements, and all other documents included in the bidding documents reflect the Procurement Regulations that the Purchaser is obligated to follow during procurement and administration of this Contract.
- (xi) **“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.

- (xii) **“Sexual Harassment” “(SH)”** is defined as unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature by the Supplier’s Personnel with other Supplier’s, Subcontractors’ or Purchaser’s personnel.

(b) entities

- (i) **“Purchaser”** means the entity purchasing the Information System, as **specified in the SCC**.
- (ii) **“Purchaser’s Personnel”** means all staff, labor and other employees of the Project Manager and of the Purchaser engaged in fulfilling the Purchaser’s obligations under the Contract; and any other personnel identified as Purchaser’s



Personnel, by a notice from the Purchaser to the Supplier;

- (iii) **“Project Manager”** means the person **named as such in the SCC** or otherwise appointed by the Purchaser in the manner provided in GCC Clause 18.1 (Project Manager) to perform the duties delegated by the Purchaser.
- (iv) **“Supplier”** means the firm or Joint Venture whose bid to **perform the Contract** has been accepted by the Purchaser and is named as such in the Contract Agreement.
- (v) **“Supplier’s Representative”** means any person **nominated** by the Supplier and named as such in the Contract Agreement or otherwise approved by the Purchaser in the manner provided in GCC Clause 18.2 (Supplier’s Representative) to perform the duties delegated by the Supplier.
- (vi) **“Supplier’s Personnel”** means all personnel whom the Supplier utilizes in the execution of the Contract, including the staff, labor and other employees of the Supplier and each Subcontractor; and any other personnel assisting the Supplier in the execution of the Contract;
- (vii) **“Subcontractor”** means any firm to whom any of the obligations of the Supplier, including preparation of any design or supply of any Information Technologies or other Goods or Services, is subcontracted directly or indirectly by the Supplier.
- (viii) **“Adjudicator”** means the person named in Appendix 2 of the Contract Agreement, **appointed** by agreement between the Purchaser and the Supplier to make a decision on or to settle any dispute between the Purchaser and the Supplier referred to him or her by the parties, pursuant to GCC Clause 43.1 (Adjudication).
- (ix) **“The World Bank”** (also called “The Bank”) means the International Bank for Reconstruction and Development (IBRD) or the International Development Association (IDA).

(c) scope

- (i) “Information System,” also called “the System,” means all the Information Technologies, Materials, and other Goods to be supplied, installed, integrated, and made operational (exclusive of the Supplier’s Equipment), together with the Services to be carried out by the Supplier under the Contract.
- (ii) “Subsystem” means any subset of the System identified as such in the Contract that may be supplied, installed, tested, and commissioned individually before Commissioning of the entire System.
- (iii) “Information Technologies” means all information processing and communications-related hardware, Software, supplies, and consumable items that the Supplier is required to supply and install under the Contract.
- (iv) “Goods” means all equipment, machinery, furnishings, Materials, and other tangible items that the Supplier is required to supply or supply and install under the Contract, including, without limitation, the Information Technologies and Materials, but excluding the Supplier’s Equipment.
- (v) “Services” means all technical, logistical, management, and any other Services to be provided by the Supplier under the Contract to supply, install, customize, integrate, and make operational the System. Such Services may include, but are not restricted to, activity management and quality assurance, design, development, customization, documentation, transportation, insurance, inspection, expediting, site preparation, installation, integration, training, data migration, Pre-commissioning, Commissioning, maintenance, and technical support.
- (vi) “The Project Plan” means the document to be developed by the Supplier and approved by the Purchaser, pursuant to GCC Clause 19, based on the requirements of the Contract and the Preliminary Project Plan included in the Supplier’s bid. The “Agreed Project Plan” is the version of the Project Plan approved by the

Purchaser, in accordance with GCC Clause 19.2. Should the Project Plan conflict with the Contract in any way, the relevant provisions of the Contract, including any amendments, shall prevail.

- (vii) “Software” means that part of the System which are instructions that cause information processing Subsystems to perform in a specific manner or execute specific operations.
- (viii) “System Software” means Software that provides the operating and management instructions for the underlying hardware and other components, and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Systems Software. Such System Software includes, but is not restricted to, micro-code embedded in hardware (i.e., “firmware”), operating systems, communications, system and network management, and utility software.
- (ix) “General-Purpose Software” means Software that supports general-purpose office and software development activities and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be General-Purpose Software. Such General-Purpose Software may include, but is not restricted to, word processing, spreadsheet, generic database management, and application development software.
- (x) “Application Software” means Software formulated to perform specific business or technical functions and interface with the business or technical users of the System and is identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Application Software.
- (xi) “Standard Software” means Software identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Standard Software.

- (xii) “Custom Software” means Software identified as such in Appendix 4 of the Contract Agreement and such other Software as the parties may agree in writing to be Custom Software.
- (xiii) “Source Code” means the database structures, dictionaries, definitions, program source files, and any other symbolic representations necessary for the compilation, execution, and subsequent maintenance of the Software (typically, but not exclusively, required for Custom Software).
- (xiv) “Materials” means all documentation in printed or printable form and all instructional and informational aides in any form (including audio, video, and text) and on any medium, provided to the Purchaser under the Contract.
- (xv) “Standard Materials” means all Materials not specified as Custom Materials.
- (xvi) “Custom Materials” means Materials developed by the Supplier at the Purchaser’s expense under the Contract and identified as such in Appendix 5 of the Contract Agreement and such other Materials as the parties may agree in writing to be Custom Materials. Custom Materials includes Materials created from Standard Materials.
- (xvii) “Intellectual Property Rights” means any and all copyright, moral rights, trademark, patent, and other intellectual and proprietary rights, title and interests worldwide, whether vested, contingent, or future, including without limitation all economic rights and all exclusive rights to reproduce, fix, adapt, modify, translate, create derivative works from, extract or re-utilize data from, manufacture, introduce into circulation, publish, distribute, sell, license, sublicense, transfer, rent, lease, transmit or provide access electronically, broadcast, display, enter into computer memory, or otherwise use any portion or copy, in whole or in part, in any form, directly or indirectly, or to authorize or assign others to do so.
- (xviii) “Supplier’s Equipment” means all equipment, tools, apparatus, or things of every kind required in or for installation, completion and

maintenance of the System that are to be provided by the Supplier, but excluding the Information Technologies, or other items forming part of the System.

(d) activities

- (i) “Delivery” means the transfer of the Goods from the Supplier to the Purchaser in accordance with the current edition Incoterms specified in the Contract.
- (ii) “Installation” means that the System or a Subsystem as specified in the Contract is ready for Commissioning as provided in GCC Clause 26 (Installation).
- (iii) “Pre-commissioning” means the testing, checking, and any other required activity that may be specified in the Technical Requirements that are to be carried out by the Supplier in preparation for Commissioning of the System as provided in GCC Clause 26 (Installation).
- (iv) “Commissioning” means operation of the System or any Subsystem by the Supplier following Installation, which operation is to be carried out by the Supplier as provided in GCC Clause 27.1 (Commissioning), for the purpose of carrying out Operational Acceptance Test(s).
- (v) “Operational Acceptance Tests” means the tests specified in the Technical Requirements and Agreed Project Plan to be carried out to ascertain whether the System, or a specified Subsystem, is able to attain the functional and performance requirements specified in the Technical Requirements and Agreed Project Plan, in accordance with the provisions of GCC Clause 27.2 (Operational Acceptance Test).
- (vi) “Operational Acceptance” means the acceptance by the Purchaser of the System (or any Subsystem(s) where the Contract provides for acceptance of the System in parts), in accordance with GCC Clause 27.3 (Operational Acceptance).

(e) place and time

- (i) “Purchaser’s Country” is the **country named in the SCC**.
- (ii) “Supplier’s Country” is the country in which the Supplier is legally organized, as named in the Contract Agreement.
- (iii) **Unless otherwise specified in the SCC** “Project Site(s)” means the place(s) in the Site Table in the Technical Requirements Section for the supply and installation of the System.
- (iv) “Eligible Country” means the countries and territories eligible for participation in procurements financed by the World Bank as defined in the Procurement Regulations.
- (v) “Day” means calendar day of the Gregorian Calendar.
- (vi) “Week” means seven (7) consecutive Days, beginning the day of the week as is customary in the Purchaser’s Country.
- (vii) “Month” means calendar month of the Gregorian Calendar.
- (viii) “Year” means twelve (12) consecutive Months.
- (ix) “Effective Date” means the date of fulfillment of all conditions specified in Article 3 (Effective Date for Determining Time for Achieving Operational Acceptance) of the Contract Agreement, for the purpose of determining the Delivery, Installation, and Operational Acceptance dates for the System or Subsystem(s).
- (x) “Contract Period” is the time period during which this Contract governs the relations and obligations of the Purchaser and Supplier in relation to the System, as **unless otherwise specified in the SCC**, the Contract shall continue in force until the Information System and all the Services have been provided, unless the Contract is terminated earlier in accordance with the terms set out in the Contract.
- (xi) “Defect Liability Period” (also referred to as the “Warranty Period”) means the period of validity of the warranties given by the Supplier commencing at date of the Operational Acceptance Certificate of the System or

Subsystem(s), during which the Supplier is responsible for defects with respect to the System (or the relevant Subsystem[s]) as provided in GCC Clause 29 (Defect Liability).

(xii) “The Coverage Period” means the Days of the Week and the hours of those Days during which maintenance, operational, and/or technical support services (if any) must be available.

(xiii) The Post-Warranty Services Period” means the number of years **defined in the SCC** (if any), following the expiration of the Warranty Period during which the Supplier may be obligated to provide Software licenses, maintenance, and/or technical support services for the System, either under this Contract or under separate contract(s).

## 2. Contract Documents

2.1 Subject to Article 1.2 (Order of Precedence) of the Contract Agreement, all documents forming part of the Contract (and all parts of these documents) are intended to be correlative, complementary, and mutually explanatory. The Contract shall be read as a whole.

## 3. Interpretation

3.1 Governing Language

3.1.1 **Unless otherwise specified in the SCC**, all Contract Documents and related correspondence exchanged between Purchaser and Supplier shall be written in the language of these bidding documents (English), and the Contract shall be construed and interpreted in accordance with that language.

3.1.2 If any of the Contract Documents or related correspondence are prepared in a language other than the governing language under GCC Clause 3.1.1 above, the translation of such documents into the governing language shall prevail in matters of interpretation. The originating party, with respect to such documents shall bear the costs and risks of such translation.

3.2 Singular and Plural

The singular shall include the plural and the plural the singular, except where the context otherwise requires.

### 3.3 Headings

The headings and marginal notes in the GCC are included for ease of reference and shall neither constitute a part of the Contract nor affect its interpretation.

### 3.4 Persons

Words importing persons or parties shall include firms, corporations, and government entities.

### 3.5 Incoterms

Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of parties thereunder shall be as prescribed by the Incoterms

Incoterms means international rules for interpreting trade terms published by the International Chamber of Commerce (latest edition), 38 Cours Albert 1<sup>er</sup>, 75008 Paris, France.

### 3.6 Entire Agreement

The Contract constitutes the entire agreement between the Purchaser and Supplier with respect to the subject matter of Contract and supersedes all communications, negotiations, and agreements (whether written or oral) of parties with respect to the subject matter of the Contract made prior to the date of Contract.

### 3.7 Amendment

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

### 3.8 Independent Supplier

The Supplier shall be an independent contractor performing the Contract. The Contract does not create any agency, partnership, joint venture, or other joint relationship between the parties to the Contract.

Subject to the provisions of the Contract, the Supplier shall be solely responsible for the manner in which the Contract is performed. All employees, representatives, or Subcontractors engaged by the Supplier in connection with the performance of the Contract shall be under the complete control of the Supplier and shall not be deemed to be employees of the Purchaser, and nothing contained in the Contract or in any subcontract awarded by the Supplier shall be construed to create any contractual relationship between



any such employees, representatives, or Subcontractors and the Purchaser.

### 3.9 Joint Venture

If the Supplier is a Joint Venture of two or more firms, all such firms shall be jointly and severally bound to the Purchaser for the fulfillment of the provisions of the Contract and shall designate one of such firms to act as a leader with authority to bind the Joint Venture. The composition or constitution of the Joint Venture shall not be altered without the prior consent of the Purchaser.

### 3.10 Nonwaiver

3.10.1 Subject to GCC Clause 3.10.2 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, nor shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

3.10.2 Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, must be 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.

### 3.11 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.

### 3.12 Country of Origin

“Origin” means the place where the Information Technologies, Materials, and other Goods for the System were produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, Software development, or substantial and major assembly or integration of components, a commercially recognized product results that is substantially different in basic characteristics or in purpose or utility from its components. The Origin of Goods and Services is distinct from the nationality of the Supplier and may be different.

#### 4. Notices

- 4.1 Unless otherwise stated in the Contract, all notices to be given under the Contract shall be in writing and shall be sent, pursuant to GCC Clause 4.3 below, by personal delivery, airmail post, special courier, facsimile, electronic mail, or Electronic Data Interchange (EDI), with the following provisions.
- 4.1.1 Any notice sent by facsimile, electronic mail, or EDI shall be confirmed within two (2) days after dispatch by notice sent by airmail post or special courier, except as otherwise specified in the Contract.
- 4.1.2 Any notice sent by airmail post or special courier shall be deemed (in the absence of evidence of earlier receipt) to have been delivered ten (10) days after dispatch. In proving the fact of dispatch, it shall be sufficient to show that the envelope containing such notice was properly addressed, stamped, and conveyed to the postal authorities or courier service for transmission by airmail or special courier.
- 4.1.3 Any notice delivered personally or sent by facsimile, electronic mail, or EDI shall be deemed to have been delivered on the date of its dispatch.
- 4.1.4 Either party may change its postal, facsimile, electronic mail, or EDI addresses for receipt of such notices by ten (10) days' notice to the other party in writing.
- 4.2 Notices shall be deemed to include any approvals, consents, instructions, orders, certificates, information and other communication to be given under the Contract.
- 4.3 Pursuant to GCC Clause 18, notices from/to the Purchaser are normally given by, or addressed to, the Project Manager, while notices from/to the Supplier are normally given by, or addressed to, the Supplier's Representative, or in its absence its deputy if any. If there is no appointed Project Manager or Supplier's Representative (or deputy), or if their related authority is limited by the SCC for GCC Clauses 18.1 or 18.2.2, or for any other reason, the Purchaser or Supplier may give and receive notices at their fallback addresses. The address of the Project Manager and the fallback address of the Purchaser are as **specified in the SCC** or as subsequently established/amended. The address of the Supplier's Representative and the fallback address of the Supplier are as specified in Appendix 1 of the Contract Agreement or as subsequently established/amended.

- 5. Governing Law**
- 5.1 The Contract shall be governed by and interpreted in accordance with the laws of the country **specified in the SCC**.
- 5.2 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.
- 6. Fraud and Corruption**
- 6.1 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 the Appendix 1 to the GCC.
- 6.2 The Purchaser requires the Suppliers 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.

## **B. SUBJECT MATTER OF CONTRACT**

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- 7. Scope of the System**
- 7.1 Unless otherwise expressly **limited in the SCC** or Technical Requirements, the Supplier's obligations cover the provision of all Information Technologies, Materials and other Goods as well as the performance of all Services required for the design, development, and implementation (including procurement, quality assurance, assembly, associated site preparation, Delivery, Pre-commissioning, Installation, Testing, and Commissioning) of the System, in accordance with the plans, procedures, specifications, drawings, codes, and any other documents specified in the Contract and the Agreed Project Plan.
- 7.2 The Supplier shall, unless specifically excluded in the Contract, perform all such work and / or supply all such items

and Materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Operational Acceptance of the System as if such work and / or items and Materials were expressly mentioned in the Contract.

- 7.3 The Supplier's obligations (if any) to provide Goods and Services as implied by the Recurrent Cost tables of the Supplier's bid, such as consumables, spare parts, and technical services (e.g., maintenance, technical assistance, and operational support), are as **specified in the SCC**, including the relevant terms, characteristics, and timings.

**8. Time for  
Commencement  
and Operational  
Acceptance**

- 8.1 The Supplier shall commence work on the System within the period **specified in the SCC**, and without prejudice to GCC Clause 28.2, the Supplier shall thereafter proceed with the System in accordance with the time schedule specified in the Implementation Schedule and any refinements made in the Agreed Project Plan.
- 8.2 The Supplier shall achieve Operational Acceptance of the System (or Subsystem(s) where a separate time for Operational Acceptance of such Subsystem(s) is specified in the Contract) in accordance with the time schedule specified in the Implementation Schedule and any refinements made in the Agreed Project Plan, or within such extended time to which the Supplier shall be entitled under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).

## 9. Supplier's Responsibilities

9.1 The Supplier shall conduct all activities with due care and diligence, in accordance with the Contract and with the skill and care expected of a competent provider of information technologies, information systems, support, maintenance, training, and other related services, or in accordance with best industry practices. In particular, the Supplier shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand. The Supplier shall ensure that its Subcontractors carry out the work on the Information System in accordance with the Contract, including complying with relevant environmental and social requirements and the obligations set out in GCC Clause 9.9.

The Supplier shall at all times take all reasonable precautions to maintain the health and safety of the Supplier's Personnel employed for the execution of the Contract at the Project Site/s in the Purchaser's country where the Contract is executed.

If **required in the SCC**, the Supplier shall submit to the Purchaser for its approval a health and safety manual which has been specifically prepared for the Contract.

The health and safety manual shall be in addition to any other similar document required under applicable health and safety regulations and laws.

The health and safety manual shall set out any applicable health and safety requirement under the Contract,

(a) which may include:

- (i) the procedures to establish and maintain a safe working environment;
- (ii) the procedures for prevention, preparedness and response activities to be implemented in the case of an emergency event (i.e. an unanticipated incident, arising from natural or man-made hazards);
- (iii) the measures to be taken to avoid or minimize the potential for community exposure to water-borne, water-based, water-related, and vector-borne diseases,
- (iv) the measures to be implemented to avoid or minimize the spread of communicable diseases; and

(b) any other requirements stated in the Purchaser's Requirements.

- 9.2 The Supplier confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the System provided by the Purchaser and on the basis of information that the Supplier could have obtained from a visual inspection of the site (if access to the site was available) and of other data readily available to the Supplier relating to the System as at the date twenty-eight (28) days prior to bid submission. The Supplier acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Contract.
- 9.3 The Supplier shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach a mutually Agreed Project Plan (pursuant to GCC Clause 19.2) within the time schedule specified in the Implementation Schedule. Failure to provide such resources, information, and decision-making may constitute grounds for termination pursuant to GCC Clause 41.2.
- 9.4 The Supplier shall acquire in its name all permits, approvals, and/or licenses from all local, state, or national government authorities or public service undertakings in the Purchaser's Country that are necessary for the performance of the Contract, including, without limitation, visas for the Supplier's Personnel and entry permits for all imported Supplier's Equipment. The Supplier shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the Purchaser under GCC Clause 10.4 and that are necessary for the performance of the Contract.
- 9.5 The Supplier shall comply with all laws in force in the Purchaser's Country. The laws will include all national, provincial, municipal, or other laws that affect the performance of the Contract and are binding upon the Supplier. The Supplier shall indemnify and hold harmless the Purchaser from and against any and all liabilities, damages, claims, fines, penalties, and expenses of whatever nature arising or resulting from the violation of such laws by the Supplier or its personnel, including the Subcontractors and their personnel, but without prejudice to GCC Clause 10.1. The Supplier shall not indemnify the Purchaser to the extent that such liability, damage, claims, fines, penalties, and

expenses were caused or contributed to by a fault of the Purchaser.

- 9.6 Any Information Technologies or other Goods and Services that will be incorporated in or be required for the System and other supplies shall have their Origin, as defined in GCC Clause 3.12, in a country that shall be an Eligible Country, as defined in GCC Clause 1.1 (e) (iv).
- 9.7 Pursuant to paragraph 2.2 e. of the Appendix 1 to the General Conditions of Contract, 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 GCC Clause 6.1 (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).
- 9.8 The Supplier shall conform to the sustainable procurement contractual provisions, if and as **specified in the SCC**.

#### 9.9 Code of Conduct

The Supplier shall have a Code of Conduct for the Supplier's Personnel employed for the execution of the Contract at the Project Site/s.

The Supplier shall take all necessary measures to ensure that each such personnel is made aware of the Code of Conduct including specific behaviors that are prohibited, and understands the consequences of engaging in such prohibited behaviors.

These measures include providing instructions and documentation that can be understood by such personnel, and seeking to obtain that person's signature acknowledging receipt of such instructions and/or documentation, as appropriate.

The Supplier shall also ensure that the Code of Conduct is visibly displayed in the Project Site/s as well as, as applicable, in areas outside the Project Site/s accessible to the local

community and any project affected people. The posted Code of Conduct shall be provided in languages comprehensible to the Supplier's Personnel, Purchaser's Personnel and the local community.

The Supplier's Management Strategy and Implementation Plans, if applicable, shall include appropriate processes for the Supplier to verify compliance with these obligations.

9.10 The Supplier shall, in all dealings with its labor and the labor of its Subcontractors currently employed on or connected with the Contract, pay due regard to all recognized festivals, official holidays, religious or other customs, and all local laws and regulations pertaining to the employment of labor.

9.11 The Supplier, including its Subcontractors, shall comply with all applicable safety obligations. The Supplier shall at all times take all reasonable precautions to maintain the health and safety of the Supplier's Personnel employed for the execution of Contract at the Project Site/s.

#### 9.12 Training of Supplier's Personnel

The Supplier shall provide appropriate training to relevant Supplier's Personnel on any applicable environmental and social aspect of the Contract, including appropriate sensitization on prohibition of SEA, health and safety.

As stated in the Purchaser's Requirements or as instructed by the Project Manager, the Supplier shall also allow appropriate opportunities for the relevant personnel to be trained on any applicable environmental and social aspects of the Contract by the Purchaser's Personnel and/or other personnel assigned by the Purchaser.

The Supplier shall provide training on SEA and SH, including its prevention, to any of its personnel who has a role to supervise other Supplier's Personnel.

#### 9.13 Stakeholder engagements

The Supplier shall provide relevant contract-related information, as the Purchaser and/or Project Manager may reasonably request to conduct contract stakeholder engagement. "Stakeholder" refers to individuals or groups who:

- (a) are affected or likely to be affected by the Contract;  
and
- (b) may have an interest in the Contract.



The Supplier may also directly participate in contract stakeholder engagements, as the Purchaser and/or Project Manager may reasonably request.

#### 9.14 Forced Labor

The Supplier, including its Subcontractors, shall not employ or engage forced labour. Forced labour 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 labour, such as indentured labour, bonded labour or similar labour-contracting arrangements.

No persons shall be employed or engaged who have been subject to trafficking. 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.

#### 9.15 Child Labor

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).

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.

The Supplier, including its Subcontractors, shall only employ or engage children between the minimum age and the age of 18 after an appropriate risk assessment has been conducted by the Supplier with the Project Manager's consent. The Supplier shall be subject to regular monitoring by the Project Manager that includes monitoring of health, working conditions and hours of work.

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.

#### 9.16 Non-Discrimination and Equal Opportunity

The Supplier shall not make decisions relating to the employment or treatment of personnel for the execution of the Contract on the basis of personal characteristics unrelated to inherent job requirements. The Supplier shall base the employment of personnel for the execution of the Contract on the principle of equal opportunity and fair treatment, and shall not discriminate with respect to any aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, job assignment, promotion, termination of employment or retirement, and disciplinary practices.

Special measures of protection or assistance to remedy past discrimination or selection for a particular job based on the inherent requirements of the job shall not be deemed discrimination. The Supplier shall provide protection and assistance as necessary to ensure non-discrimination and equal opportunity, including for specific groups such as women, people with disabilities, migrant workers and children (of working age in accordance with GCC Clause 9.15).

#### 9.17 Personnel Grievance Mechanism

The Supplier shall have a grievance mechanism for personnel employed in the execution of the Contract to raise workplace concerns. The grievance mechanism shall be proportionate to the nature, scale, risks and impacts of the Contract. The grievance mechanism may utilize existing grievance mechanisms, provided that they are properly

designed and implemented, address concerns promptly, and are readily accessible to such personnel.

#### 9.18 Security of the Project Site

**If stated in the SCC**, the Supplier shall be responsible for the security at the Project Site/s including providing and maintaining at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the locations, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.

In making security arrangements, the Supplier shall be guided by applicable laws and any other requirements that may be stated in the Purchaser's Requirements.

The Supplier shall (i) conduct appropriate background checks on any personnel retained to provide security; (ii) train the security personnel adequately (or determine that they are properly trained) in the use of force (and where applicable, firearms), and appropriate conduct towards the Supplier's Personnel, Purchaser's Personnel and affected communities; and (iii) require the security personnel to act within the applicable Laws and any requirements set out in the Purchaser's Requirements.

The Supplier shall not permit any use of force by security personnel in providing security except when used for preventive and defensive purposes in proportion to the nature and extent of the threat.

#### 9.19 Recruitment of Persons

The Supplier shall not recruit, or attempt to recruit, either on limited time or permanent basis or through any other contractual agreement, staff and labor from amongst the Purchaser's Personnel.

9.20 **Unless otherwise specified in the SCC** the Supplier shall have no other Supplier responsibilities.

### 10. Purchaser's Responsibilities

10.1 The Purchaser shall ensure the accuracy of all information and/or data to be supplied by the Purchaser to the Supplier, except when otherwise expressly stated in the Contract.

10.2 The Purchaser shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach an Agreed Project Plan (pursuant to GCC Clause 19.2) within the time schedule specified in the Implementation Schedule. Failure to

- provide such resources, information, and decision making may constitute grounds for Termination pursuant to GCC Clause 41.3.1 (b).
- 10.3 The Purchaser shall be responsible for acquiring and providing legal and physical possession of the site and access to it, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract.
- 10.4 If requested by the Supplier, the Purchaser shall use its best endeavors to assist the Supplier in obtaining in a timely and expeditious manner all permits, approvals, and/or licenses necessary for the execution of the Contract from all local, state, or national government authorities or public service undertakings that such authorities or undertakings require the Supplier or Subcontractors or the Supplier's Personnel, as the case may be, to obtain.
- 10.5 In such cases where the responsibilities of specifying and acquiring or upgrading telecommunications and/or electric power services falls to the Supplier, as specified in the Technical Requirements, SCC, Agreed Project Plan, or other parts of the Contract, the Purchaser shall use its best endeavors to assist the Supplier in obtaining such services in a timely and expeditious manner.
- 10.6 The Purchaser shall be responsible for timely provision of all resources, access, and information necessary for the Installation and Operational Acceptance of the System (including, but not limited to, any required telecommunications or electric power services), as identified in the Agreed Project Plan, except where provision of such items is explicitly identified in the Contract as being the responsibility of the Supplier. Delay by the Purchaser may result in an appropriate extension of the Time for Operational Acceptance, at the Supplier's discretion.
- 10.7 Unless otherwise specified in the Contract or agreed upon by the Purchaser and the Supplier, the Purchaser shall provide sufficient, properly qualified operating and technical personnel, as required by the Supplier to properly carry out Delivery, Pre-commissioning, Installation, Commissioning, and Operational Acceptance, at or before the time specified in the Implementation Schedule and the Agreed Project Plan.
- 10.8 The Purchaser will designate appropriate staff for the training courses to be given by the Supplier and shall make

- all appropriate logistical arrangements for such training as specified in the Technical Requirements, SCC, the Agreed Project Plan, or other parts of the Contract.
- 10.9 The Purchaser assumes primary responsibility for the Operational Acceptance Test(s) for the System, in accordance with GCC Clause 27.2, and shall be responsible for the continued operation of the System after Operational Acceptance. However, this shall not limit in any way the Supplier's responsibilities after the date of Operational Acceptance otherwise specified in the Contract.
- 10.10 The Purchaser is responsible for performing and safely storing timely and regular backups of its data and Software in accordance with accepted data management principles, except where such responsibility is clearly assigned to the Supplier elsewhere in the Contract.
- 10.11 All costs and expenses involved in the performance of the obligations under this GCC Clause 10 shall be the responsibility of the Purchaser, save those to be incurred by the Supplier with respect to the performance of the Operational Acceptance Test(s), in accordance with GCC Clause 27.2.
- 10.12 **Unless otherwise specified in the SCC** the Purchaser shall have no other Purchaser responsibilities.

### C. PAYMENT

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- 11. Contract Price**
- 11.1 The Contract Price shall be as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.
- 11.2 Unless an adjustment clause is **provided for in the SCC**, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the System pursuant to GCC Clause 39 or to other clauses in the Contract;
- 11.3 The Supplier shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.

**12. Terms of Payment**

- 12.1 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the System or Subsystem(s), Delivered, Pre-commissioned, Installed, and Operationally Accepted, and by documents submitted pursuant to GCC Clause 22.5 and upon fulfillment of other obligations stipulated in the Contract.

The Contract Price shall be paid as **specified in the SCC**.

- 12.2 No payment made by the Purchaser herein shall be deemed to constitute acceptance by the Purchaser of the System or any Subsystem(s).
- 12.3 Payments shall be made promptly by the Purchaser, but in no case later than forty five (45) days after submission of a valid invoice by the Supplier. In the event that the Purchaser fails to make any payment by its respective due date or within the period set forth in the Contract, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate(s) **specified in the SCC** for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 12.4 Payments shall be made in the currency(ies) specified in the Contract Agreement, pursuant to GCC Clause 11. For Goods and Services supplied locally, payments shall be made **as specified in the SCC**.
- 12.5 **Unless otherwise specified in the SCC**, payment of the foreign currency portion of the Contract Price for Goods supplied from outside the Purchaser's Country shall be made to the Supplier through an irrevocable letter of credit opened by an authorized bank in the Supplier's Country and will be payable on presentation of the appropriate documents. It is agreed that the letter of credit will be subject to Article 10 of the latest revision of *Uniform Customs and Practice for Documentary Credits*, published by the International Chamber of Commerce, Paris.

**13. Securities**

- 13.1 Issuance of Securities

The Supplier shall provide the securities specified below in favor of the Purchaser at the times and in the amount, manner, and form specified below.

- 13.2 Advance Payment Security

- 13.2.1 The Supplier shall provide within twenty-eight (28) days of the notification of Contract award an Advance

Payment Security in the amount and currency of the Advance Payment specified in SCC for GCC Clause 12.1 above and valid until the System is Operationally Accepted.

- 13.2.2 The security shall be in the form provided in the bidding documents or in another form acceptable to the Purchaser. The amount of the security shall be reduced in proportion to the value of the System executed by and paid to the Supplier from time to time and shall automatically become null and void when the full amount of the advance payment has been recovered by the Purchaser. **Unless otherwise specified in the SCC**, the reduction in value and expiration of the Advance Payment Security are calculated as follows:

$P \cdot a / (100 - a)$ , where “P” is the sum of all payments effected so far to the Supplier (excluding the Advance Payment), and “a” is the Advance Payment expressed as a percentage of the Contract Price pursuant to the SCC for GCC Clause 12.1.

The security shall be returned to the Supplier immediately after its expiration.

### 13.3 Performance Security

- 13.3.1 The Supplier shall, within twenty-eight (28) days of the notification of Contract award, provide a security for the due performance of the Contract in the amount and currency **specified in the SCC**.

- 13.3.2 The security shall be a bank guarantee in the form provided in the Sample Contractual Forms Section of the bidding documents, or it shall be in another form acceptable to the Purchaser.

- 13.3.3 The security shall automatically become null and void once all the obligations of the Supplier under the Contract have been fulfilled, including, but not limited to, any obligations during the Warranty Period and any extensions to the period. The security shall be returned to the Supplier no later than twenty-eight (28) days after its expiration.

- 13.3.4 Upon Operational Acceptance of the entire System, the security shall be reduced to the amount **specified in the SCC**, on the date of the Operational Acceptance, so that the reduced security would only cover the remaining warranty obligations of the Supplier.

- 14. Taxes and Duties**
- 14.1 For Goods or Services supplied from 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. Any duties, such as importation or customs duties, and taxes and other levies, payable in the Purchaser's country for the supply of Goods and Services from outside the Purchaser's country are the responsibility of the Purchaser unless these duties or taxes have been made part of the Contract Price in Article 2 of the Contract Agreement and the Price Schedule it refers to, in which case the duties and taxes will be the Supplier's responsibility.
- 14.2 For Goods or Services supplied locally, the Supplier shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods or Services to the Purchaser. The only exception are taxes or duties, such as value-added or sales tax or stamp duty as apply to, or are clearly identifiable, on the invoices and provided they apply in the Purchaser's country, and only if these taxes, levies and/or duties are also excluded from the Contract Price in Article 2 of the Contract Agreement and the Price Schedule it refers to.
- 14.3 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.
- 14.4 For the purpose of the Contract, it is agreed that the Contract Price specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement is based on the taxes, duties, levies, and charges prevailing at the date twenty-eight (28) days prior to the date of bid submission in the Purchaser's Country (also called "Tax" in this GCC Clause 14.4). If any Tax rates are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of the Contract, which was or will be assessed on the Supplier, its Subcontractors, or their employees in connection with performance of the Contract, an equitable adjustment to the Contract Price shall be made to fully take into account any such change by addition to or reduction from the Contract Price, as the case may be.



## D. INTELLECTUAL PROPERTY

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### 15. Copyright

- 15.1 The Intellectual Property Rights in all Standard Software and Standard Materials shall remain vested in the owner of such rights.
- 15.2 The Purchaser agrees to restrict use, copying, or duplication of the Standard Software and Standard Materials in accordance with GCC Clause 16, except that additional copies of Standard Materials may be made by the Purchaser for use within the scope of the project of which the System is a part, in the event that the Supplier does not deliver copies within thirty (30) days from receipt of a request for such Standard Materials.
- 15.3 The Purchaser's contractual rights to use the Standard Software or elements of the Standard Software may not be assigned, licensed, or otherwise transferred voluntarily except in accordance with the relevant license agreement or **unless otherwise specified in the SCC** to a legally constituted successor organization (e.g., a reorganization of a public entity formally authorized by the government or through a merger or acquisition of a private entity).
- 15.4 **Unless otherwise specified in the SCC**, the Intellectual Property Rights in all Custom Software and Custom Materials specified in Appendices 4 and 5 of the Contract Agreement (if any) shall, at the date of this Contract or on creation of the rights (if later than the date of this Contract), vest in the Purchaser. The Supplier shall do and execute or arrange for the doing and executing of each necessary act, document, and thing (as legally sufficient) that the Purchaser may consider necessary or desirable to perfect the right, title, and interest of the Purchaser in and to those rights. In respect of such Custom Software and Custom Materials, the Supplier shall ensure that the holder of a moral right in such an item does not assert it, and the Supplier shall, if requested to do so by the Purchaser and where permitted by applicable law, ensure that the holder of such a moral right waives it.
- 15.5 **Unless otherwise specified in the SCC**, escrow arrangements shall NOT be required.

**16. Software License Agreements**

16.1 Except to the extent that the Intellectual Property Rights in the Software vest in the Purchaser, the Supplier hereby grants to the Purchaser license to access and use the Software, including all inventions, designs, and marks embodied in the Software.

Such license to access and use the Software shall:

- (a) be:
  - (i) nonexclusive;
  - (ii) fully paid up and irrevocable (except that it shall terminate if the Contract terminates under GCC Clauses 41.1 or 41.3);
  - (iii) **unless otherwise specified in the SCC** valid throughout the territory of the Purchaser's Country;
  - (iv) **unless otherwise specified in the SCC** subject to NO additional restrictions.
- (b) permit the Software to be:
  - (i) used or copied for use on or with the computer(s) for which it was acquired (if specified in the Technical Requirements and/or the Supplier's bid), plus a backup computer(s) of the same or similar capacity, if the primary is(are) inoperative, and during a reasonable transitional period when use is being transferred between primary and backup;
  - (ii) used or copied for use on or transferred to a replacement computer(s), (and use on the original and replacement computer(s) may be simultaneous during a reasonable transitional period) provided that, if the Technical Requirements and/or the Supplier's bid specifies a class of computer to which the license is restricted, the replacement computer(s) is(are) within that class;
  - (iii) if the nature of the System is such as to permit such access, accessed from other computers connected to the primary and/or backup computer(s) by means of a local or wide-area network or similar arrangement, and used on or copied for use on those other computers to the extent necessary to that access;

- (iv) reproduced for safekeeping or backup purposes;
- (v) customized, adapted, or combined with other computer software for use by the Purchaser, provided that derivative software incorporating any substantial part of the delivered, restricted Software shall be subject to same restrictions as are set forth in this Contract;
- (vi) **unless otherwise specified in the SCC**, disclosed to, and reproduced for use by, support service suppliers and their subcontractors, to the extent reasonably necessary to the performance of their support service contracts, subject to the same restrictions as are set forth in this Contract; and
- (vii) **unless otherwise specified in the SCC** disclosed to, and reproduced for use by, NO other parties.

16.2 The Supplier has the right to audit the Standard Software to verify compliance with the above license agreements. **Unless otherwise specified in the SCC**, the Purchaser will make available to the Supplier, within seven (7) days of a written request, accurate and up-to-date records of the number and location of copies, the number of authorized users, or any other relevant data required to demonstrate use of the Standard Software as per the license agreement. If and only if, expressly agreed in writing between the Purchaser and the Supplier, Purchaser will allow, under a pre-specified agreed procedure, the execution of embedded software functions under Supplier's control, and unencumbered transmission of resulting information on software usage.

## 17. Confidential Information

- 17.1 **Unless otherwise specified in the SCC**, the "Receiving Party" (either the Purchaser or the Supplier) shall keep confidential and shall not, without the written consent of the other party to this Contract ("the Disclosing Party"), divulge to any third party any documents, data, or other information of a confidential nature ("Confidential Information") connected with this Contract, and furnished directly or indirectly by the Disclosing Party prior to or during performance, or following termination, of this Contract.
- 17.2 For the purposes of GCC Clause 17.1, the Supplier is also deemed to be the Receiving Party of Confidential Information generated by the Supplier itself in the course

of the performance of its obligations under the Contract and relating to the businesses, finances, suppliers, employees, or other contacts of the Purchaser or the Purchaser's use of the System.

17.3 Notwithstanding GCC Clauses 17.1 and 17.2:

- (a) the Supplier may furnish to its Subcontractor Confidential Information of the Purchaser to the extent reasonably required for the Subcontractor to perform its work under the Contract; and
- (b) the Purchaser may furnish Confidential Information of the Supplier: (i) to its support service suppliers and their subcontractors to the extent reasonably required for them to perform their work under their support service contracts; and (ii) to its affiliates and subsidiaries,

in which event the Receiving Party shall ensure that the person to whom it furnishes Confidential Information of the Disclosing Party is aware of and abides by the Receiving Party's obligations under this GCC Clause 17 as if that person were party to the Contract in place of the Receiving Party.

17.4 The Purchaser shall not, without the Supplier's prior written consent, use any Confidential Information received from the Supplier for any purpose other than the operation, maintenance and further development of the System. Similarly, the Supplier shall not, without the Purchaser's prior written consent, use any Confidential Information received from the Purchaser for any purpose other than those that are required for the performance of the Contract.

17.5 The obligation of a party under GCC Clauses 17.1 through 17.4 above, however, shall not apply to that information which:

- (a) now or hereafter enters the public domain through no fault of the Receiving Party;
- (b) can be proven to have been possessed by the Receiving Party at the time of disclosure and that was not previously obtained, directly or indirectly, from the Disclosing Party;
- (c) otherwise lawfully becomes available to the Receiving Party from a third party that has no obligation of confidentiality;

(d) is being provided to the Bank.

- 17.6 The above provisions of this GCC Clause 17 shall not in any way modify any undertaking of confidentiality given by either of the parties to this Contract prior to the date of the Contract in respect of the System or any part thereof.
- 17.7 **Unless otherwise specified in the SCC**, the provisions of this GCC Clause 17 shall survive the termination, for whatever reason, of the Contract for three (3) years.

## **E. SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND ACCEPTANCE OF THE SYSTEM**

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### **18. Representatives**

#### **18.1 Project Manager**

If the Project Manager is not named in the Contract, then within fourteen (14) days of the Effective Date, the Purchaser shall appoint and notify the Supplier in writing of the name of the Project Manager. The Purchaser may from time to time appoint some other person as the Project Manager in place of the person previously so appointed and shall give a notice of the name of such other person to the Supplier without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the System. Such appointment shall take effect only upon receipt of such notice by the Supplier. **Unless otherwise specified in the SCC** (if any), the Project Manager shall have the authority to represent the Purchaser on all day-to-day matters relating to the System or arising from the Contract, and shall normally be the person giving or receiving notices on behalf of the Purchaser pursuant to GCC Clause 4.

#### **18.2 Supplier's Representative**

- 18.2.1 If the Supplier's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Supplier shall appoint the Supplier's Representative and shall request the Purchaser in writing to approve the person so appointed. The request must be accompanied by a detailed curriculum vitae for the nominee, as well as a description of any other System or non-System responsibilities the nominee would retain while performing the duties of the Supplier's Representative. If the Purchaser does not object to the appointment within fourteen (14) days, the Supplier's Representative shall be deemed to have been

approved. If the Purchaser objects to the appointment within fourteen (14) days giving the reason therefor, then the Supplier shall appoint a replacement within fourteen (14) days of such objection in accordance with this GCC Clause 18.2.1.

**18.2.2 Unless otherwise specified in the SCC** (if any), the Supplier's Representative shall have the authority to represent the Supplier on all day-to-day matters relating to the System or arising from the Contract, and shall normally be the person giving or receiving notices on behalf of the Supplier pursuant to GCC Clause 4.

**18.2.3** The Supplier shall not revoke the appointment of the Supplier's Representative without the Purchaser's prior written consent, which shall not be unreasonably withheld. If the Purchaser consents to such an action, the Supplier shall appoint another person of equal or superior qualifications as the Supplier's Representative, pursuant to the procedure set out in GCC Clause 18.2.1.

**18.2.4** The Supplier's Representative and staff are obliged to work closely with the Purchaser's Project Manager and staff, act within their own authority, and abide by directives issued by the Purchaser that are consistent with the terms of the Contract. The Supplier's Representative is responsible for managing the activities of the Supplier's Personnel.

**18.2.5** The Supplier's Representative may, subject to the approval of the Purchaser (which shall not be unreasonably withheld), at any time delegate to any person any of the powers, functions, and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Supplier's Representative and shall specify the powers, functions, and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until the notice of it has been delivered.

**18.2.6** Any act or exercise by any person of powers, functions and authorities so delegated to him or her in accordance with GCC Clause 18.2.5 shall be deemed to be an act or exercise by the Supplier's Representative.

### **18.3 Removal of Supplier's Personnel**

18.3.1 The Project Manager may require the Supplier to remove (or cause to be removed) the Supplier's Representative or any other person employed by the Supplier in the execution of the Contract, who:

- (i) persists in any misconduct or lack of care;
- (ii) carries out duties incompetently or negligently;
- (iii) fails to comply with any provision of the Contract;
- (iv) persists in any conduct which is prejudicial to safety, health, or the protection of the environment;
- (v) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Contract;
- (vi) has been recruited from the Purchaser's Personnel;
- (vii) engages in any other behaviour which breaches the Code of Conduct, as applicable;

If appropriate, the Supplier shall then promptly appoint (or cause to be appointed) a suitable replacement with equivalent skills and experience.

Notwithstanding any requirement from the Project Manager to remove or cause to remove any person, the Supplier shall take immediate action as appropriate in response to any violation of (a) through (g) above. Such immediate action shall include removing (or causing to be removed) from work on the System, any person Employed by the Supplier in the execution of the Contract who engages in (a), (b), (c), (d), (e) or (g) above or has been recruited as stated in (f) above.

18.3.2 If any representative or person employed by the Supplier is removed in accordance with GCC Clause 18.3.1, the Supplier shall, where required, promptly appoint a suitable replacement with equivalent skills and experience.

## 19. Project Plan

19.1 In close cooperation with the Purchaser and based on the Preliminary Project Plan included in the Supplier's bid, the Supplier shall develop a Project Plan encompassing the activities specified in the Contract. The contents of the Project Plan shall be as **specified in the SCC** and/or Technical Requirements.

- 19.2 **Unless otherwise specified in the SCC**, within thirty (30) days from the Effective Date of the Contract, the Supplier shall present a Project Plan to the Purchaser. Such submission to the Purchaser shall include any applicable environmental and social management plan to manage environmental and social risks and impacts. The Purchaser shall, within fourteen (14) days of receipt of the Project Plan, notify the Supplier of any respects in which it considers that the Project Plan does not adequately ensure that the proposed program of work, proposed methods, and/or proposed Information Technologies will satisfy the Technical Requirements and/or the SCC (in this Clause 19.2 called “non-conformities” below). The Supplier shall, within five (5) days of receipt of such notification, correct the Project Plan and resubmit to the Purchaser. The Purchaser shall, within five (5) days of resubmission of the Project Plan, notify the Supplier of any remaining non-conformities. This procedure shall be repeated as necessary until the Project Plan is free from non-conformities. When the Project Plan is free from non-conformities, the Purchaser shall provide confirmation in writing to the Supplier. This approved Project Plan (“the Agreed Project Plan”) shall be contractually binding on the Purchaser and the Supplier.
- 19.3 If required, the impact on the Implementation Schedule of modifications agreed during finalization of the Agreed Project Plan shall be incorporated in the Contract by amendment, in accordance with GCC Clauses 39 and 40.
- 19.4 The Supplier shall undertake to supply, install, test, and commission the System in accordance with the Agreed Project Plan and the Contract.
- 19.5 **Unless otherwise specified in the SCC**, the Supplier shall submit to the Purchaser Monthly Progress Reports summarizing:
- (i) results accomplished during the prior period;
  - (ii) cumulative deviations to date from schedule of progress milestones as specified in the Agreed Project Plan;
  - (iii) corrective actions to be taken to return to planned schedule of progress; proposed revisions to planned schedule;



- (iv) other issues and outstanding problems; proposed actions to be taken;
- (v) resources that the Supplier expects to be provided by the Purchaser and/or actions to be taken by the Purchaser in the next reporting period;
- (vi) status of compliance to environmental and social requirements, as applicable;
- (vii) other issues or potential problems the Supplier foresees that could impact on project progress and/or effectiveness.

19.6 The Supplier shall submit to the Purchaser other (periodic) reports as specified in the SCC.

19.7 Immediate Reporting requirement

The Supplier shall inform the Project Manager immediately of any allegation, incident or accident in Project Site/s, which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Purchaser's Personnel or Supplier's Personnel. This includes, but is not limited to, any incident or accident causing fatality or serious injury; significant adverse effects or damage to private property; or any allegation of SEA and/or SH. In case of SEA and/or SH, while maintaining confidentiality as appropriate, the type of allegation (sexual exploitation, sexual abuse or sexual harassment), gender and age of the person who experienced the alleged incident should be included in the information.

The Supplier, upon becoming aware of the allegation, incident or accident, shall also immediately inform the Purchaser of any such incident or accident on the Subcontractors' or suppliers' premises relating to the Contract which has or is likely to have a significant adverse effect on the environment, the affected communities, the public, Purchaser's Personnel or Supplier's Personnel. The notification shall provide sufficient detail regarding such incidents or accidents.

The Supplier shall provide full details of such incidents or accidents to the Project Manager within the timeframe agreed with the Purchaser.

The Purchaser shall require its Subcontractors to immediately notify it of any incidents or accidents referred to in this Sub- Clause.

**20. Subcontracting**

- 20.1 Appendix 3 (List of Approved Subcontractors) to the Contract Agreement specifies critical items of supply or services and a list of Subcontractors for each item that are considered acceptable by the Purchaser. If no Subcontractors are listed for an item, the Supplier shall prepare a list of Subcontractors it considers qualified and wishes to be added to the list for such items. The Supplier may from time to time propose additions to or deletions from any such list. The Supplier shall submit any such list or any modification to the list to the Purchaser for its approval in sufficient time so as not to impede the progress of work on the System. Submission 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. Approval by the Purchaser of a Subcontractor(s) shall not relieve the Supplier from any of its obligations, duties, or responsibilities under the Contract.
- 20.2 The Supplier may, at its discretion, select and employ Subcontractors for such critical items from those Subcontractors listed pursuant to GCC Clause 20.1. If the Supplier wishes to employ a Subcontractor not so listed, or subcontract an item not so listed, it must seek the Purchaser's prior approval under GCC Clause 20.3.
- 20.3 For items for which pre-approved Subcontractor lists have not been specified in Appendix 3 to the Contract Agreement, the Supplier may employ such Subcontractors as it may select, provided: (i) the Supplier notifies the Purchaser in writing at least twenty-eight (28) days prior to the proposed mobilization date for such Subcontractor, including by providing the Subcontractor's declaration in accordance with Appendix 2 to the GCC- Sexual exploitation and Abuse (SEA) and/or Sexual Harassment (SH) Performance Declaration; and (ii) by the end of this period either the Purchaser has granted its approval in writing or fails to respond. The Supplier shall not engage any Subcontractor to which the Purchaser has objected in writing prior to the end of the notice period. The absence of a written objection by the Purchaser during the above specified period shall constitute formal acceptance of the proposed Subcontractor. Except to the extent that it permits the deemed approval of the Purchaser of Subcontractors not

listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the Purchaser or Supplier as they are specified in GCC Clauses 20.1 and 20.2, or in Appendix 3 of the Contract Agreement.

- 20.4 The Supplier shall ensure that its Subcontractors comply with the relevant ES requirements and the obligations set out in GCC Clause 9.9.

## **21. Design and Engineering**

### **21.1 Technical Specifications and Drawings**

- 21.1.1 The Supplier shall execute the basic and detailed design and the implementation activities necessary for successful installation of the System in compliance with the provisions of the Contract or, where not so specified, in accordance with good industry practice.

The Supplier shall be responsible for any discrepancies, errors or omissions in the specifications, drawings, and other technical documents that it has prepared, whether such specifications, drawings, and other documents have been approved by the Project Manager or not, provided that such discrepancies, errors, or omissions are not because of inaccurate information furnished in writing to the Supplier by or on behalf of the Purchaser.

- 21.1.2 The Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification, or other document, or any modification of such design, drawings, specification, or other documents provided or designated by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Project Manager.

### **21.2 Codes and Standards**

Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the date twenty-eight (28) days prior to date of bid submission shall apply. During Contract execution, any changes in such codes and standards shall be applied after approval by the Purchaser and shall be treated in accordance with GCC Clause 39.3.

- 21.3 Approval/Review of Controlling Technical Documents by the Project Manager

**21.3.1 Unless otherwise specified in the SCC**, there will NO Controlling Technical Documents required. However, **if the SCC specifies** Controlling Technical Documents, the Supplier shall prepare and furnish such documents for the Project Manager's approval or review.

Any part of the System covered by or related to the documents to be approved by the Project Manager shall be executed only after the Project Manager's approval of these documents.

GCC Clauses 21.3.2 through 21.3.7 shall apply to those documents requiring the Project Manager's approval, but not to those furnished to the Project Manager for its review only.

**21.3.2** Within fourteen (14) days after receipt by the Project Manager of any document requiring the Project Manager's approval in accordance with GCC Clause 21.3.1, the Project Manager shall either return one copy of the document to the Supplier with its approval endorsed on the document or shall notify the Supplier in writing of its disapproval of the document and the reasons for disapproval and the modifications that the Project Manager proposes. If the Project Manager fails to take such action within the fourteen (14) days, then the document shall be deemed to have been approved by the Project Manager.

**21.3.3** The Project Manager shall not disapprove any document except on the grounds that the document does not comply with some specified provision of the Contract or that it is contrary to good industry practice.

**21.3.4** If the Project Manager disapproves the document, the Supplier shall modify the document and resubmit it for the Project Manager's approval in accordance with GCC Clause 21.3.2. If the Project Manager approves the document subject to modification(s), the Supplier shall make the required modification(s), and the document shall then be deemed to have been approved, subject to GCC Clause 21.3.5. The procedure set out in GCC Clauses 21.3.2 through 21.3.4 shall be repeated, as appropriate, until the Project Manager approves such documents.

**21.3.5** If any dispute occurs between the Purchaser and the Supplier in connection with or arising out of the disapproval by the Project Manager of any document

and/or any modification(s) to a document that cannot be settled between the parties within a reasonable period, then, in case the Contract Agreement includes and names an Adjudicator, such dispute may be referred to the Adjudicator for determination in accordance with GCC Clause 43.1 (Adjudication). If such dispute is referred to an Adjudicator, the Project Manager shall give instructions as to whether and if so, how, performance of the Contract is to proceed. The Supplier shall proceed with the Contract in accordance with the Project Manager's instructions, provided that if the Adjudicator upholds the Supplier's view on the dispute and if the Purchaser has not given notice under GCC Clause 43.1.2, then the Supplier shall be reimbursed by the Purchaser for any additional costs incurred by reason of such instructions and shall be relieved of such responsibility or liability in connection with the dispute and the execution of the instructions as the Adjudicator shall decide, and the Time for Achieving Operational Acceptance shall be extended accordingly.

21.3.6 The Project Manager's approval, with or without modification of the document furnished by the Supplier, shall not relieve the Supplier of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager or inaccurate information furnished in writing to the Supplier by or on behalf of the Purchaser.

21.3.7 The Supplier shall not depart from any approved document unless the Supplier has first submitted to the Project Manager an amended document and obtained the Project Manager's approval of the document, pursuant to the provisions of this GCC Clause 21.3. If the Project Manager requests any change in any already approved document and/or in any document based on such an approved document, the provisions of GCC Clause 39 (Changes to the System) shall apply to such request.

## **22. Procurement, Delivery, and Transport**

22.1 Subject to related Purchaser's responsibilities pursuant to GCC Clauses 10 and 14, the Supplier shall manufacture or procure and transport all the Information Technologies,

Materials, and other Goods in an expeditious and orderly manner to the Project Site.

22.2 Delivery of the Information Technologies, Materials, and other Goods shall be made by the Supplier in accordance with the Technical Requirements.

22.3 Early or partial deliveries require the explicit written consent of the Purchaser, which consent shall not be unreasonably withheld.

22.4 Transportation

22.4.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during shipment. The packing, marking, and documentation within and outside the packages shall comply strictly with the Purchaser's instructions to the Supplier.

22.4.2 The Supplier will bear responsibility for and cost of transport to the Project Sites in accordance with the terms and conditions used in the specification of prices in the Price Schedules, including the terms and conditions of the associated Incoterms.

22.4.3 **Unless otherwise specified in the SCC**, the Supplier shall be free to use transportation through carriers registered in any eligible country and to obtain insurance from any eligible source country.

22.5 **Unless otherwise specified in the SCC**, the Supplier will provide the Purchaser with shipping and other documents, as specified below:

22.5.1 For Goods supplied from outside the Purchaser's Country:

Upon shipment, the Supplier shall notify the Purchaser and the insurance company contracted by the Supplier to provide cargo insurance by cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Purchaser by mail or courier, as appropriate, with a copy to the cargo insurance company:

(a) two copies of the Supplier's invoice showing the description of the Goods, quantity, unit price, and total amount;

(b) usual transportation documents;

- (c) insurance certificate;
- (d) certificate(s) of origin; and
- (e) estimated time and point of arrival in the Purchaser's Country and at the site.

22.5.2 For Goods supplied locally (i.e., from within the Purchaser's country):

Upon shipment, the Supplier shall notify the Purchaser by cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Supplier shall promptly send the following documents to the Purchaser by mail or courier, as appropriate:

- (a) two copies of the Supplier's invoice showing the Goods' description, quantity, unit price, and total amount;
- (b) delivery note, railway receipt, or truck receipt;
- (c) certificate of insurance;
- (d) certificate(s) of origin; and
- (e) estimated time of arrival at the site.

22.6 Customs Clearance

- (a) The Purchaser will bear responsibility for, and cost of, customs clearance into the Purchaser's country in accordance the particular Incoterm(s) used for Goods supplied from outside the Purchaser's country in the Price Schedules referred to by Article 2 of the Contract Agreement.
- (b) At the request of the Purchaser, the Supplier will make available a representative or agent during the process of customs clearance in the Purchaser's country for goods supplied from outside the Purchaser's country. In the event of delays in customs clearance that are not the fault of the Supplier:
  - (i) the Supplier shall be entitled to an extension in the Time for Achieving Operational Acceptance, pursuant to GCC Clause 40;
  - (ii) the Contract Price shall be adjusted to compensate the Supplier for any additional storage charges that the Supplier may incur as a result of the delay.

**23. Product Upgrades**

- 23.1 At any point during performance of the Contract, should technological advances be introduced by the Supplier for Information Technologies originally offered by the Supplier in its bid and still to be delivered, the Supplier 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, pursuant to GCC Clause 39 (Changes to the System).
- 23.2 At any point during performance of the Contract, for Information Technologies still to be delivered, the Supplier 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 Supplier in the Purchaser's Country, pursuant to GCC Clause 39 (Changes to the System).
- 23.3 During performance of the Contract, the Supplier shall offer to the Purchaser all new versions, releases, and updates of Standard Software, as well as related documentation and technical support services, within thirty (30) days of their availability from the Supplier to other clients of the Supplier in the Purchaser's Country, and no later than twelve (12) months after they are released in the country of origin. In no case will the prices for these Software exceed those quoted by the Supplier in the Recurrent Costs tables in its bid.
- 23.4 **Unless otherwise specified in the SCC**, during the Warranty Period, the Supplier will provide at no additional cost to the Purchaser all new versions, releases, and updates for all Standard Software that are used in the System, within thirty (30) days of their availability from the Supplier to other clients of the Supplier in the Purchaser's country, and no later than twelve (12) months after they are released in the country of origin of the Software.
- 23.5 The Purchaser shall introduce all new versions, releases or updates of the Software within eighteen (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 Supplier 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 Supplier stop supporting or maintaining a version or release of the Software less than twenty four (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 twenty-four-month-long stop date.

**24. Implementation,  
Installation, and  
Other Services**

- 24.1 The Supplier shall provide all Services specified in the Contract and Agreed Project Plan in accordance with the highest standards of professional competence and integrity.
- 24.2 Prices charged by the Supplier for Services, if not included in the Contract, shall be agreed upon in advance by the parties (including, but not restricted to, any prices submitted by the Supplier in the Recurrent Cost Schedules of its Bid) and shall not exceed the prevailing rates charged by the Supplier to other purchasers in the Purchaser's Country for similar services.

**25. Inspections and  
Tests**

- 25.1 The Purchaser or its representative shall have the right to inspect and/or test any components of the System, as specified in the Technical Requirements, to confirm their good working order and/or conformity to the Contract at the point of delivery and/or at the Project Site.
- 25.2 The Purchaser or its representative shall be entitled to attend any such inspections and/or tests of the components, provided that the Purchaser shall bear all costs and expenses incurred in connection with such attendance, including but not limited to all inspection agent fees, travel, and related expenses.
- 25.3 Should the inspected or tested components fail to conform to the Contract, the Purchaser may reject the component(s), and the Supplier shall either replace the rejected component(s), or make alterations as necessary so that it meets the Contract requirements free of cost to the Purchaser.
- 25.4 The Project Manager may require the Supplier to carry out any inspection and/or test not specified in the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such inspection and/or test shall be added to the Contract Price. Further, if such inspection and/or test impedes the progress of work on the

System and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Achieving Operational Acceptance and the other obligations so affected.

- 25.5 If any dispute shall arise between the parties in connection with or caused by an inspection and/or with regard to any component to be incorporated in the System that cannot be settled amicably between the parties within a reasonable period of time, either party may invoke the process pursuant to GCC Clause 43 (Settlement of Disputes), starting with referral of the matter to the Adjudicator in case an Adjudicator is included and named in the Contract Agreement.

**26. Installation of the System**

- 26.1 As soon as the System, or any Subsystem, has, in the opinion of the Supplier, been delivered, Pre-commissioned, and made ready for Commissioning and Operational Acceptance Testing in accordance with the Technical Requirements, the SCC and the Agreed Project Plan, the Supplier shall so notify the Purchaser in writing.

- 26.2 The Project Manager shall, within fourteen (14) days after receipt of the Supplier's notice under GCC Clause 26.1, either issue an Installation Certificate in the form specified in the Sample Contractual Forms Section in the bidding documents, stating that the System, or major component or Subsystem (if Acceptance by major component or Subsystem is specified pursuant to the SCC for GCC Clause 27.2.1), has achieved Installation by the date of the Supplier's notice under GCC Clause 26.1, or notify the Supplier 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 and/or Subsystems making up the System. The Supplier shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies that the Project Manager has notified the Supplier of. The Supplier shall then promptly carry out retesting of the System or Subsystem and, when in the Supplier's opinion the System or Subsystem is ready for Commissioning and Operational Acceptance Testing, notify the Purchaser in writing, in accordance with GCC Clause 26.1. The procedure set out in this GCC Clause 26.2 shall be repeated, as necessary, until an Installation Certificate is issued.

- 26.3 If the Project Manager fails to issue the Installation Certificate and fails to inform the Supplier of any defects

and/or deficiencies within fourteen (14) days after receipt of the Supplier's notice under GCC Clause 26.1, or if the Purchaser puts the System or a Subsystem into production operation, then the System (or Subsystem) shall be deemed to have achieved successful Installation as of the date of the Supplier's notice or repeated notice, or when the Purchaser put the System into production operation, as the case may be.

**27. Commissioning  
and Operational  
Acceptance**

**27.1 Commissioning**

27.1.1 Commissioning of the System (or Subsystem if specified pursuant to the SCC for GCC Clause 27.2.1) shall be commenced by the Supplier:

- (a) immediately after the Installation Certificate is issued by the Project Manager, pursuant to GCC Clause 26.2; or
- (b) as otherwise specified in the Technical Requirement or the Agreed Project Plan; or
- (c) immediately after Installation is deemed to have occurred, under GCC Clause 26.3.

27.1.2 The Purchaser shall supply the operating and technical personnel and all materials and information reasonably required to enable the Supplier to carry out its obligations with respect to Commissioning.

Production use of the System or Subsystem(s) shall not commence prior to the start of formal Operational Acceptance Testing.

**27.2 Operational Acceptance Tests**

27.2.1 The Operational Acceptance Tests (and repeats of such tests) shall be the primary responsibility of the Purchaser (in accordance with GCC Clause 10.9), but shall be conducted with the full cooperation of the Supplier during Commissioning of the System (or major components or Subsystem[s]), to ascertain whether the System (or major component or Subsystem[s]) conforms to the Technical Requirements and meets the standard of performance quoted in the Supplier's bid, including, but not restricted to, the functional and technical performance requirements. **Unless otherwise specified in the SCC**, the Operational Acceptance Tests during Commissioning

will be conducted as specified in the Technical Requirements and/or the Agreed Project Plan.

At the Purchaser's discretion, Operational Acceptance Tests may also be performed on replacement Goods, upgrades and new version releases, and Goods that are added or field-modified after Operational Acceptance of the System.

27.2.2 If for reasons attributable to the Purchaser, the Operational Acceptance Test of the System (or Subsystem[s] or major components, pursuant to the SCC for GCC Clause 27.2.1) cannot be successfully completed within ninety (90) days from the date of Installation or any other period agreed upon in writing by the Purchaser and the Supplier, the Supplier shall be deemed to have fulfilled its obligations with respect to the technical and functional aspects of the Technical Specifications, SCC and/or the Agreed Project Plan, and GCC Clause 28.2 and 28.3 shall not apply.

### 27.3 Operational Acceptance

27.3.1 Subject to GCC Clause 27.4 (Partial Acceptance) below, Operational Acceptance shall occur in respect of the System, when

- (a) the Operational Acceptance Tests, as specified in the Technical Requirements, and/or SCC and/or the Agreed Project Plan have been successfully completed; or
- (b) the Operational Acceptance Tests have not been successfully completed or have not been carried out for reasons that are attributable to the Purchaser within the period from the date of Installation or any other agreed-upon period as specified in GCC Clause 27.2.2 above; or
- (c) the Purchaser has put the System into production or use for sixty (60) consecutive days. If the System is put into production or use in this manner, the Supplier shall notify the Purchaser and document such use.

27.3.2 At any time after any of the events set out in GCC Clause 27.3.1 have occurred, the Supplier may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate.

27.3.3 After consultation with the Purchaser, and within fourteen (14) days after receipt of the Supplier's notice, the Project Manager shall:

- (a) issue an Operational Acceptance Certificate; or
- (b) notify the Supplier in writing of any defect or deficiencies or other reason for the failure of the Operational Acceptance Tests; or
- (c) issue the Operational Acceptance Certificate, if the situation covered by GCC Clause 27.3.1 (b) arises.

27.3.4 The Supplier shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies and/or other reasons for the failure of the Operational Acceptance Test that the Project Manager has notified the Supplier of. Once such remedies have been made by the Supplier, the Supplier shall notify the Purchaser, and the Purchaser, with the full cooperation of the Supplier, shall use all reasonable endeavors to promptly carry out retesting of the System or Subsystem. Upon the successful conclusion of the Operational Acceptance Tests, the Supplier shall notify the Purchaser of its request for Operational Acceptance Certification, in accordance with GCC Clause 27.3.3. The Purchaser shall then issue to the Supplier the Operational Acceptance Certification in accordance with GCC Clause 27.3.3 (a), or shall notify the Supplier of further defects, deficiencies, or other reasons for the failure of the Operational Acceptance Test. The procedure set out in this GCC Clause 27.3.4 shall be repeated, as necessary, until an Operational Acceptance Certificate is issued.

27.3.5 If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with GCC Clause 27.2, then either:

- (a) the Purchaser may consider terminating the Contract, pursuant to GCC Clause 41.2.2;
- or
- (b) if the failure to achieve Operational Acceptance within the specified time period is a result of the failure of the Purchaser to fulfill its obligations under the Contract, then the Supplier shall be deemed to have fulfilled its obligations with respect to the relevant technical and functional

aspects of the Contract, and GCC Clauses 30.3 and 30.4 shall not apply.

27.3.6 If within fourteen (14) days after receipt of the Supplier's notice the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Supplier in writing of the justifiable reasons why the Project Manager has not issued the Operational Acceptance Certificate, the System or Subsystem shall be deemed to have been accepted as of the date of the Supplier's said notice.

#### 27.4 Partial Acceptance

27.4.1 If so specified in the SCC for GCC Clause 27.2.1, Installation and Commissioning shall be carried out individually for each identified major component or Subsystem(s) of the System. In this event, the provisions in the Contract relating to Installation and Commissioning, including the Operational Acceptance Test, shall apply to each such major component or Subsystem individually, and Operational Acceptance Certificate(s) shall be issued accordingly for each such major component or Subsystem of the System, subject to the limitations contained in GCC Clause 27.4.2.

27.4.2 The issuance of Operational Acceptance Certificates for individual major components or Subsystems pursuant to GCC Clause 27.4.1 shall not relieve the Supplier of its obligation to obtain an Operational Acceptance Certificate for the System as an integrated whole (if so specified in the SCC for GCC Clauses 12.1 and 27.2.1) once all major components and Subsystems have been supplied, installed, tested, and commissioned.

27.4.3 In the case of minor components for the System that by their nature do not require Commissioning or an Operational Acceptance Test (e.g., minor fittings, furnishings or site works, etc.), the Project Manager shall issue an Operational Acceptance Certificate within fourteen (14) days after the fittings and/or furnishings have been delivered and/or installed or the site works have been completed. The Supplier shall, however, use all reasonable endeavors to promptly remedy any defects or deficiencies in such minor components detected by the Purchaser or Supplier.

## F. GUARANTEES AND LIABILITIES

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### 28. Operational Acceptance Time Guarantee

- 28.1 The Supplier guarantees that it shall complete the supply, Installation, Commissioning, and achieve Operational Acceptance of the System (or Subsystems, pursuant to the SCC for GCC Clause 27.2.1) within the time periods specified in the Implementation Schedule and/or the Agreed Project Plan pursuant to GCC Clause 8.2, or within such extended time to which the Supplier shall be entitled under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).
- 28.2 **Unless otherwise specified in the SCC**, if the Supplier fails to supply, install, commission, and achieve Operational Acceptance of the System (or Subsystems pursuant to the SCC for GCC Clause 27.2.1) within the time for achieving Operational Acceptance specified in the Implementation Schedule or the Agreed Project Plan, or any extension of the time for achieving Operational Acceptance previously granted under GCC Clause 40 (Extension of Time for Achieving Operational Acceptance), at the rate of one half of one percent per week as a percentage of the Contract Price (exclusive of Recurrent Costs if any), or the relevant part of the Contract Price if a Subsystem has not achieved Operational Acceptance. The aggregate amount of such liquidated damages shall in no event exceed the amount of ten (10) percent of the Contract Price (exclusive of Recurrent Costs if any). Once the Maximum is reached, the Purchaser may consider termination of the Contract, pursuant to GCC Clause 41.2.2.
- 28.3 **Unless otherwise specified in the SCC**, liquidated damages payable under GCC Clause 28.2 shall apply only to the failure to achieve Operational Acceptance of the System (and Subsystems) as specified in the Implementation Schedule and/or Agreed Project Plan. This Clause 28.3 shall not limit, however, any other rights or remedies the Purchaser may have under the Contract for other delays.
- 28.4 If liquidated damages are claimed by the Purchaser for the System (or Subsystem), the Supplier shall have no further liability whatsoever to the Purchaser in respect to the Operational Acceptance time guarantee for the System (or Subsystem). However, the payment of liquidated damages shall not in any way relieve the Supplier from any of its

obligations to complete the System or from any other of its obligations and liabilities under the Contract.

## 29. Defect Liability

- 29.1 The Supplier warrants that the System, including all Information Technologies, Materials, and other Goods supplied and Services provided, shall be free from defects in the design, engineering, Materials, and workmanship that prevent the System and/or any of its components from fulfilling the Technical Requirements or that limit in a material fashion the performance, reliability, or extensibility of the System and/or Subsystems. **Unless otherwise specified in the SCC**, there will be NO exceptions and/or limitations to this warranty with respect to Software (or categories of Software). Commercial warranty provisions of products supplied under the Contract shall apply to the extent that they do not conflict with the provisions of this Contract.
- 29.2 The Supplier also warrants that the Information Technologies, Materials, and other Goods supplied under the Contract are new, unused, and incorporate all recent improvements in design that materially affect the System's or Subsystem's ability to fulfill the Technical Requirements.
- 29.3 **Unless otherwise specified in the SCC**, the Supplier warrants that: (i) all Goods components to be incorporated into the System form part of the Supplier's and/or Subcontractor's current product lines, and (ii) they have been previously released to the market.
- 29.4 **Unless otherwise specified in the SCC**, the Warranty Period shall commence from the date of Operational Acceptance of the System (or of any major component or Subsystem for which separate Operational Acceptance is provided for in the Contract) and shall extend for thirty-six (36) months.
- 29.5 If during the Warranty Period any defect as described in GCC Clause 29.1 should be found in the design, engineering, Materials, and workmanship of the Information Technologies and other Goods supplied or of the Services provided by the Supplier, the Supplier shall promptly, in consultation and agreement with the Purchaser regarding appropriate remedying of the defects, and at its sole cost, repair, replace, or otherwise make good (as the Supplier shall, at its discretion, determine) such defect as well as any damage to the System caused by such defect.



Any defective Information Technologies or other Goods that have been replaced by the Supplier shall remain the property of the Supplier.

- 29.6 The Supplier shall not be responsible for the repair, replacement, or making good of any defect, or of any damage to the System arising out of or resulting from any of the following causes:
- (a) improper operation or maintenance of the System by the Purchaser;
  - (b) normal wear and tear;
  - (c) use of the System with items not supplied by the Supplier, unless otherwise identified in the Technical Requirements, or approved by the Supplier; or
  - (d) modifications made to the System by the Purchaser, or a third party, not approved by the Supplier.
- 29.7 The Supplier's obligations under this GCC Clause 29 shall not apply to:
- (a) any materials that are normally consumed in operation or have a normal life shorter than the Warranty Period; or
  - (b) any designs, specifications, or other data designed, supplied, or specified by or on behalf of the Purchaser or any matters for which the Supplier has disclaimed responsibility, in accordance with GCC Clause 21.1.2.
- 29.8 The Purchaser shall give the Supplier a notice promptly following the discovery of such defect, stating the nature of any such defect together with all available evidence. The Purchaser shall afford all reasonable opportunity for the Supplier to inspect any such defect. The Purchaser shall afford the Supplier all necessary access to the System and the site to enable the Supplier to perform its obligations under this GCC Clause 29.
- 29.9 The Supplier may, with the consent of the Purchaser, remove from the site any Information Technologies and other Goods that are defective, if the nature of the defect, and/or any damage to the System caused by the defect, is such that repairs cannot be expeditiously carried out at the site. If the repair, replacement, or making good is of such a character that it may affect the efficiency of the System, the Purchaser may give the Supplier notice requiring that tests of the defective part be made by the Supplier immediately

upon completion of such remedial work, whereupon the Supplier shall carry out such tests.

If such part fails the tests, the Supplier shall carry out further repair, replacement, or making good (as the case may be) until that part of the System passes such tests. The tests shall be agreed upon by the Purchaser and the Supplier.

- 29.10 **Unless otherwise specified in the SCC**, the response times and repair/replacement times for Warranty Defect Repair are specified in the Technical Requirements. Nevertheless, if the Supplier fails to commence the work necessary to remedy such defect or any damage to the System caused by such defect within two weeks the Purchaser may, following notice to the Supplier, proceed to do such work or contract a third party (or parties) to do such work, and the reasonable costs incurred by the Purchaser in connection with such work shall be paid to the Purchaser by the Supplier or may be deducted by the Purchaser from any monies due the Supplier or claimed under the Performance Security.
- 29.11 If the System or Subsystem cannot be used by reason of such defect and/or making good of such defect, the Warranty Period for the System shall be extended by a period equal to the period during which the System or Subsystem could not be used by the Purchaser because of such defect and/or making good of such defect.
- 29.12 Items substituted for defective parts of the System during the Warranty Period shall be covered by the Defect Liability Warranty for the remainder of the Warranty Period applicable for the part replaced or three (3) months, whichever is greater. For reasons of information security, the Purchaser may choose to retain physical possession of any replaced defective information storage devices.
- 29.13 At the request of the Purchaser and without prejudice to any other rights and remedies that the Purchaser may have against the Supplier under the Contract, the Supplier will offer all possible assistance to the Purchaser to seek warranty services or remedial action from any subcontracted third-party producers or licensors of Goods included in the System, including without limitation assignment or transfer in favor of the Purchaser of the benefit of any warranties given by such producers or licensors to the Supplier.

**30. Functional Guarantees**

- 30.1 The Supplier guarantees that, once the Operational Acceptance Certificate(s) has been issued, the System represents a complete, integrated solution to the Purchaser's requirements set forth in the Technical Requirements and it conforms to all other aspects of the Contract. The Supplier acknowledges that GCC Clause 27 regarding Commissioning and Operational Acceptance governs how technical conformance of the System to the Contract requirements will be determined.
- 30.2 If, for reasons attributable to the Supplier, the System does not conform to the Technical Requirements or does not conform to all other aspects of the Contract, the Supplier shall at its cost and expense make such changes, modifications, and/or additions to the System as may be necessary to conform to the Technical Requirements and meet all functional and performance standards. The Supplier shall notify the Purchaser upon completion of the necessary changes, modifications, and/or additions and shall request the Purchaser to repeat the Operational Acceptance Tests until the System achieves Operational Acceptance.
- 30.3 If the System (or Subsystem[s]) fails to achieve Operational Acceptance, the Purchaser may consider termination of the Contract, pursuant to GCC Clause 41.2.2, and forfeiture of the Supplier's Performance Security in accordance with GCC Clause 13.3 in compensation for the extra costs and delays likely to result from this failure.

**31. Intellectual Property Rights Warranty**

- 31.1 The Supplier hereby represents and warrants that:
- (a) the System as supplied, installed, tested, and accepted;
  - (b) use of the System in accordance with the Contract; and
  - (c) copying of the Software and Materials provided to the Purchaser in accordance with the Contract
- do not and will not infringe any Intellectual Property Rights held by any third party and that it has all necessary rights or at its sole expense shall have secured in writing all transfers of rights and other consents necessary to make the assignments, licenses, and other transfers of Intellectual Property Rights and the warranties set forth in the Contract, and for the Purchaser to own or exercise all Intellectual Property Rights as provided in the Contract.

Without limitation, the Supplier shall secure all necessary written agreements, consents, and transfers of rights from its employees and other persons or entities whose services are used for development of the System.

**32. Intellectual  
Property Rights  
Indemnity**

32.1 The Supplier shall indemnify and hold harmless the Purchaser and its employees and officers from and against any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability), that the Purchaser or its employees or officers may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights by reason of:

- (a) installation of the System by the Supplier or the use of the System, including the Materials, in the country where the site is located;
- (b) copying of the Software and Materials provided the Supplier in accordance with the Agreement; and
- (c) sale of the products produced by the System in any country, except to the extent that such losses, liabilities, and costs arise as a result of the Purchaser's breach of GCC Clause 32.2.

32.2 Such indemnity shall not cover any use of the System, including the Materials, other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the System, or any products of the System produced thereby in association or combination with any other goods or services not supplied by the Supplier, where the infringement arises because of such association or combination and not because of use of the System in its own right.

32.3 Such indemnities shall also not apply if any claim of infringement:

- (a) is asserted by a parent, subsidiary, or affiliate of the Purchaser's organization;
- (b) is a direct result of a design mandated by the Purchaser's Technical Requirements and the possibility of such infringement was duly noted in the Supplier's Bid; or
- (c) results from the alteration of the System, including the Materials, by the Purchaser or any persons other

than the Supplier or a person authorized by the Supplier.

- 32.4 If any proceedings are brought or any claim is made against the Purchaser arising out of the matters referred to in GCC Clause 32.1, the Purchaser shall promptly give the Supplier notice of such proceedings or claims, 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.

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. Unless the Supplier has so failed to notify the Purchaser within the twenty-eight (28) days, the Purchaser shall make no admission that may be prejudicial to the defense of any such proceedings or claim. 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.

- 32.5 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from and against any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the Supplier or its employees, officers, or Subcontractors may suffer as a result of any infringement or alleged infringement of any Intellectual Property Rights arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided to the Supplier in connection with this Contract by the Purchaser or any persons (other than the Supplier) contracted by the Purchaser, except to the extent that such losses, liabilities, and costs arise as a result of the Supplier's breach of GCC Clause 32.8.

- 32.6 Such indemnity shall not cover

- (a) any use of the design, data, drawing, specification, or other documents or materials, other than for the purpose indicated by or to be reasonably inferred from the Contract;

- (b) any infringement resulting from the use of the design, data, drawing, specification, or other documents or materials, or any products produced thereby, in association or combination with any other Goods or Services not provided by the Purchaser or any other person contracted by the Purchaser, where the infringement arises because of such association or combination and not because of the use of the design, data, drawing, specification, or other documents or materials in its own right.

32.7 Such indemnities shall also not apply:

- (a) if any claim of infringement is asserted by a parent, subsidiary, or affiliate of the Supplier's organization;
- (b) to the extent that any claim of infringement is caused by the alteration, by the Supplier, or any persons contracted by the Supplier, of the design, data, drawing, specification, or other documents or materials provided to the Supplier by the Purchaser or any persons contracted by the Purchaser.

32.8 If any proceedings are brought or any claim is made against the Supplier arising out of the matters referred to in GCC Clause 32.5, the Supplier shall promptly give the Purchaser notice of such proceedings or claims, and the Purchaser may at its own expense and in the Supplier's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. If the Purchaser fails to notify the Supplier within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Supplier shall be free to conduct the same on its own behalf. Unless the Purchaser has so failed to notify the Supplier within the twenty-eight (28) days, the Supplier shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Supplier shall, at the Purchaser's request, afford all available assistance to the Purchaser in conducting such proceedings or claim and shall be reimbursed by the Purchaser for all reasonable expenses incurred in so doing.

### **33. Limitation of Liability**

33.1 Provided the following does not exclude or limit any liabilities of either party in ways not permitted by applicable law:

- (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 any obligation of the Supplier to indemnify the Purchaser with respect to intellectual property rights infringement.

## **G. RISK DISTRIBUTION**

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### **34. Transfer of Ownership**

- 34.1 With the exception of Software and Materials, the ownership of the Information Technologies and other Goods shall be transferred to the Purchaser at the time of Delivery or otherwise under terms that may be agreed upon and specified in the Contract Agreement.
- 34.2 Ownership and the terms of usage of the Software and Materials supplied under the Contract shall be governed by GCC Clause 15 (Copyright) Clause 16 (Software License Agreements), and any elaboration in the Technical Requirements.
- 34.3 Ownership of the Supplier's Equipment used by the Supplier and its Subcontractors in connection with the Contract shall remain with the Supplier or its Subcontractors.

### **35. Care of the System**

- 35.1 The Purchaser shall become responsible for the care and custody of the System or Subsystems upon their Delivery. The Purchaser shall make good at its own cost any loss or damage that may occur to the System or Subsystems from any cause from the date of Delivery until the date of Operational Acceptance of the System or Subsystems, pursuant to GCC Clause 27 (Commissioning and Operational Acceptance), excepting such loss or damage arising from acts or omissions of the Supplier, its employees, or subcontractors.
- 35.2 If any loss or damage occurs to the System or any part of the System by reason of:

- (a) (insofar as they relate to the country where the Project Site is located) nuclear reaction, nuclear radiation, radioactive contamination, a pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced Supplier could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance taken out under GCC Clause 37;
- (b) any use not in accordance with the Contract, by the Purchaser or any third party;
- (c) any use of or reliance upon any design, data, or specification provided or designated by or on behalf of the Purchaser, or any such matter for which the Supplier has disclaimed responsibility in accordance with GCC Clause 21.1.2,

the Purchaser shall pay to the Supplier all sums payable in respect of the System or Subsystems that have achieved Operational Acceptance, notwithstanding that the same be lost, destroyed, or damaged. If the Purchaser requests the Supplier in writing to make good any loss or damage to the System thereby occasioned, the Supplier shall make good the same at the cost of the Purchaser in accordance with GCC Clause 39. If the Purchaser does not request the Supplier in writing to make good any loss or damage to the System thereby occasioned, the Purchaser shall either request a change in accordance with GCC Clause 39, excluding the performance of that part of the System thereby lost, destroyed, or damaged, or, where the loss or damage affects a substantial part of the System, the Purchaser shall terminate the Contract pursuant to GCC Clause 41.1.

- 35.3 The Purchaser shall be liable for any loss of or damage to any Supplier's Equipment which the Purchaser has authorized to locate within the Purchaser's premises for use in fulfillment of Supplier's obligations under the Contract, except where such loss or damage arises from acts or omissions of the Supplier, its employees, or subcontractors.



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| <b>36. Loss of or<br/>Damage to<br/>Property;<br/>Accident or<br/>Injury to<br/>Workers;<br/>Indemnification</b> | <p>36.1 The Supplier and each and every Subcontractor shall abide by the job safety, insurance, customs, and immigration measures prevalent and laws in force in the Purchaser's Country.</p> <p>36.2 Subject to GCC Clause 36.3, the Supplier shall indemnify and hold harmless the Purchaser and its employees and officers from and against any and all losses, liabilities and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the Purchaser or its employees or officers may suffer as a result of the death or injury of any person or loss of or damage to any property (other than the System, whether accepted or not) arising in connection with the supply, installation, testing, and Commissioning of the System and by reason of the negligence of the Supplier or its Subcontractors, or their employees, officers or agents, except any injury, death, or property damage caused by the negligence of the Purchaser, its contractors, employees, officers, or agents.</p> <p>36.3 If any proceedings are brought or any claim is made against the Purchaser that might subject the Supplier to liability under GCC Clause 36.2, the Purchaser shall promptly give the Supplier notice of such proceedings or claims, 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. 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. Unless the Supplier has so failed to notify the Purchaser within the twenty-eight (28) day period, the Purchaser shall make no admission that may be prejudicial to the defense of any such proceedings or claim. 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.</p> <p>36.4 The Purchaser shall indemnify and hold harmless the Supplier and its employees, officers, and Subcontractors from any and all losses, liabilities, and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the Supplier or its employees, officers, or Subcontractors may suffer as a result of the death or personal injury of any person or loss of or damage</p> |
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to property of the Purchaser, other than the System not yet achieving Operational Acceptance, that is caused by fire, explosion, or any other perils, in excess of the amount recoverable from insurances procured under GCC Clause 37 (Insurances), provided that such fire, explosion, or other perils were not caused by any act or failure of the Supplier.

36.5 If any proceedings are brought or any claim is made against the Supplier that might subject the Purchaser to liability under GCC Clause 36.4, the Supplier shall promptly give the Purchaser notice of such proceedings or claims, and the Purchaser may at its own expense and in the Supplier's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. If the Purchaser fails to notify the Supplier within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Supplier shall be free to conduct the same on its own behalf. Unless the Purchaser has so failed to notify the Supplier within the twenty-eight (28) days, the Supplier shall make no admission that may be prejudicial to the defense of any such proceedings or claim. The Supplier shall, at the Purchaser's request, afford all available assistance to the Purchaser in conducting such proceedings or claim and shall be reimbursed by the Purchaser for all reasonable expenses incurred in so doing.

36.6 The party entitled to the benefit of an indemnity under this GCC Clause 36 shall take all reasonable measures to mitigate any loss or damage that has occurred. If the party fails to take such measures, the other party's liabilities shall be correspondingly reduced.

### **37. Insurances**

37.1 The Supplier shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurance set forth below. The identity of the insurers and the form of the policies shall be subject to the approval of the Purchaser, who should not unreasonably withhold such approval.

#### **(a) Cargo Insurance During Transport**

as applicable, 110 percent of the price of the Information Technologies and other Goods in a freely convertible currency, covering the Goods from physical loss or damage during shipment through receipt at the Project Site.

(b) Installation “All Risks” Insurance

as applicable, 110 percent of the price of the Information Technologies and other Goods covering the Goods at the site from all risks of physical loss or damage (excluding only perils commonly excluded under “all risks” insurance policies of this type by reputable insurers) occurring prior to Operational Acceptance of the System.

(c) Third-Party Liability Insurance

On terms as **specified in the SCC**, covering bodily injury or death suffered by third parties (including the Purchaser’s personnel) and loss of or damage to property (including the Purchaser’s property and any Subsystems that have been accepted by the Purchaser) occurring in connection with the supply and installation of the Information System.

(d) Automobile Liability Insurance

In accordance with the statutory requirements prevailing in the Purchaser’s Country, covering use of all vehicles used by the Supplier or its Subcontractors (whether or not owned by them) in connection with the execution of the Contract.

(e) Other Insurance (if any), as **specified in the SCC**.

37.2 The Purchaser shall be named as co-insured under all insurance policies taken out by the Supplier pursuant to GCC Clause 37.1, except for the Third-Party Liability, and the Supplier’s Subcontractors shall be named as co-insured under all insurance policies taken out by the Supplier pursuant to GCC Clause 37.1 except for Cargo Insurance During Transport. All insurer’s rights of subrogation against such co-insured for losses or claims arising out of the performance of the Contract shall be waived under such policies.

37.3 The Supplier shall deliver to the Purchaser certificates of insurance (or copies of the insurance policies) as evidence that the required policies are in full force and effect.

37.4 The Supplier shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Supplier.

- 37.5 If the Supplier fails to take out and/or maintain in effect the insurance referred to in GCC Clause 37.1, the Purchaser may take out and maintain in effect any such insurance and may from time to time deduct from any amount due the Supplier under the Contract any premium that the Purchaser shall have paid to the insurer or may otherwise recover such amount as a debt due from the Supplier.
- 37.6 Unless otherwise provided in the Contract, the Supplier shall prepare and conduct all and any claims made under the policies affected by it pursuant to this GCC Clause 37, and all monies payable by any insurers shall be paid to the Supplier. The Purchaser shall give to the Supplier all such reasonable assistance as may be required by the Supplier in connection with any claim under the relevant insurance policies. With respect to insurance claims in which the Purchaser's interest is involved, the Supplier shall not give any release or make any compromise with the insurer without the prior written consent of the Purchaser. With respect to insurance claims in which the Supplier's interest is involved, the Purchaser shall not give any release or make any compromise with the insurer without the prior written consent of the Supplier.

**38. Force Majeure**

- 38.1 "Force Majeure" shall mean any event beyond the reasonable control of the Purchaser or of the Supplier, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected and shall include, without limitation, the following:
- (a) war, hostilities, or warlike operations (whether a state of war be declared or not), invasion, act of foreign enemy, and civil war;
  - (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion, and terrorist acts;
  - (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler, or any other act or failure to act of any local state or national government authority;
  - (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute,

- shipwreck, shortage or restriction of power supply, epidemics, quarantine, and plague;
- (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves, or other natural or physical disaster;
  - (f) failure, by the Supplier, to obtain the necessary export permit(s) from the governments of the Country(s) of Origin of the Information Technologies or other Goods, or Supplier's Equipment provided that the Supplier has made all reasonable efforts to obtain the required export permit(s), including the exercise of due diligence in determining the eligibility of the System and all of its components for receipt of the necessary export permits.
- 38.2 If either party is prevented, hindered, or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances of the event of Force Majeure within fourteen (14) days after the occurrence of such event.
- 38.3 The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered, or delayed. The Time for Achieving Operational Acceptance shall be extended in accordance with GCC Clause 40 (Extension of Time for Achieving Operational Acceptance).
- 38.4 The party or parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect of the event of Force Majeure upon its or their performance of the Contract and to fulfill its or their obligations under the Contract, but without prejudice to either party's right to terminate the Contract under GCC Clause 38.6.
- 38.5 No delay or nonperformance by either party to this Contract caused by the occurrence of any event of Force Majeure shall:
- (a) constitute a default or breach of the Contract;

- (b) (subject to GCC Clauses 35.2, 38.3, and 38.4) give rise to any claim for damages or additional cost or expense occasioned by the delay or nonperformance, if, and to the extent that, such delay or nonperformance is caused by the occurrence of an event of Force Majeure.
- 38.6 If the performance of the Contract is substantially prevented, hindered, or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the time period covered by the Contract, the parties will attempt to develop a mutually satisfactory solution, failing which, either party may terminate the Contract by giving a notice to the other.
- 38.7 In the event of termination pursuant to GCC Clause 38.6, the rights and obligations of the Purchaser and the Supplier shall be as specified in GCC Clauses 41.1.2 and 41.1.3.
- 38.8 Notwithstanding GCC Clause 38.5, Force Majeure shall not apply to any obligation of the Purchaser to make payments to the Supplier under this Contract.

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## H. CHANGE IN CONTRACT ELEMENTS

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### 39. Changes to the System

#### 39.1 Introducing a Change

39.1.1 Subject to GCC Clauses 39.2.5 and 39.2.7, the Purchaser shall have the right to propose, and subsequently require, the Project Manager to order the Supplier from time to time during the performance of the Contract to make any change, modification, addition, or deletion to, in, or from the System (interchangeably called “Change”), provided that such Change falls within the general scope of the System, does not constitute unrelated work, and is technically practicable, taking into account both the state of advancement of the System and the technical compatibility of the Change envisaged with the nature of the System as originally specified in the Contract.

A Change may involve, but is not restricted to, the substitution of updated Information Technologies and related Services in accordance with GCC Clause 23 (Product Upgrades).

39.1.2 The Supplier may from time to time during its performance of the Contract propose to the Purchaser

(with a copy to the Project Manager) any Change that the Supplier considers necessary or desirable to improve the quality or efficiency of the System. The Purchaser may at its discretion approve or reject any Change proposed by the Supplier.

39.1.3 Notwithstanding GCC Clauses 39.1.1 and 39.1.2, no change made necessary because of any default of the Supplier in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Achieving Operational Acceptance.

39.1.4 The procedure on how to proceed with and execute Changes is specified in GCC Clauses 39.2 and 39.3, and further details and sample forms are provided in the Sample Contractual Forms Section in the bidding documents.

39.1.5 Moreover, the Purchaser and Supplier will agree, during development of the Project Plan, to a date prior to the scheduled date for Operational Acceptance, after which the Technical Requirements for the System shall be “frozen.” Any Change initiated after this time will be dealt with after Operational Acceptance.

## 39.2 Changes Originating from Purchaser

39.2.1 If the Purchaser proposes a Change pursuant to GCC Clauses 39.1.1, it shall send to the Supplier a “Request for Change Proposal,” requiring the Supplier to prepare and furnish to the Project Manager as soon as reasonably practicable a “Change Proposal,” which shall include the following:

- (a) brief description of the Change;
- (b) impact on the Time for Achieving Operational Acceptance;
- (c) detailed estimated cost of the Change;
- (d) effect on Functional Guarantees (if any);
- (e) effect on any other provisions of the Contract.

39.2.2 Prior to preparing and submitting the “Change Proposal,” the Supplier shall submit to the Project Manager a “Change Estimate Proposal,” which shall be an estimate of the cost of preparing the Change Proposal, plus a first approximation of the suggested

approach and cost for implementing the changes. Upon receipt of the Supplier's Change Estimate Proposal, the Purchaser shall do one of the following:

- (a) accept the Supplier's estimate with instructions to the Supplier to proceed with the preparation of the Change Proposal;
- (b) advise the Supplier of any part of its Change Estimate Proposal that is unacceptable and request the Supplier to review its estimate;
- (c) advise the Supplier that the Purchaser does not intend to proceed with the Change.

39.2.3 Upon receipt of the Purchaser's instruction to proceed under GCC Clause 39.2.2 (a), the Supplier shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC Clause 39.2.1. The Supplier, at its discretion, may specify a validity period for the Change Proposal, after which if the Purchaser and Supplier has not reached agreement in accordance with GCC Clause 39.2.6, then GCC Clause 39.2.7 shall apply.

39.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If the nature of the Change is such that the Contract rates and prices are inequitable, the parties to the Contract shall agree on other specific rates to be used for valuing the Change.

39.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate impact of compliance with the Request for Change Proposal and with all other Change Orders that have already become binding upon the Supplier under this GCC Clause 39 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen (15) percent, the Supplier may give a written notice of objection to this Request for Change Proposal prior to furnishing the Change Proposal. If the Purchaser accepts the Supplier's objection, the Purchaser shall withdraw the proposed Change and shall notify the Supplier in writing of its acceptance.

The Supplier's failure to so object to a Request for Change Proposal shall neither affect its right to object to any subsequent requested Changes or Change



Orders, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Supplier represents.

39.2.6 Upon receipt of the Change Proposal, the Purchaser and the Supplier shall mutually agree upon all matters contained in the Change Proposal. Within fourteen (14) days after such agreement, the Purchaser shall, if it intends to proceed with the Change, issue the Supplier a Change Order. If the Purchaser is unable to reach a decision within fourteen (14) days, it shall notify the Supplier with details of when the Supplier can expect a decision. If the Purchaser decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Supplier accordingly. Under such circumstances, the Supplier shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Supplier in its Change Estimate Proposal submitted in accordance with GCC Clause 39.2.2.

39.2.7 If the Purchaser and the Supplier cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Achieving Operational Acceptance, or any other matters identified in the Change Proposal, the Change will not be implemented. However, this provision does not limit the rights of either party under GCC Clause 6 (Settlement of Disputes).

### 39.3 Changes Originating from Supplier

If the Supplier proposes a Change pursuant to GCC Clause 39.1.2, the Supplier shall submit to the Project Manager a written “Application for Change Proposal,” giving reasons for the proposed Change and including the information specified in GCC Clause 39.2.1. Upon receipt of the Application for Change Proposal, the parties shall follow the procedures outlined in GCC Clauses 39.2.6 and 39.2.7. However, should the Purchaser choose not to proceed or the Purchaser and the Supplier cannot come to agreement on the change during any validity period that the Supplier may specify in its Application for Change Proposal, the Supplier shall not be entitled to recover the costs of preparing the Application for Change Proposal,

unless subject to an agreement between the Purchaser and the Supplier to the contrary.

39.4 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, safety or sustainability of the systems; or
- (d) yields any other benefits to the Purchaser,

without compromising the necessary functions of the systems.

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 SCC 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.

#### **40. Extension of Time for Achieving Operational Acceptance**

40.1 The time(s) for achieving Operational Acceptance specified in the Schedule of Implementation shall be extended if the Supplier is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) any Change in the System as provided in GCC Clause 39 (Change in the Information System);
- (b) any occurrence of Force Majeure as provided in GCC Clause 38 (Force Majeure);
- (c) default of the Purchaser; or
- (d) any other matter specifically mentioned in the Contract;

by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Supplier.

40.2 Except where otherwise specifically provided in the Contract, the Supplier shall submit to the Project Manager a notice of a claim for an extension of the time for achieving Operational Acceptance, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Purchaser and the Supplier shall agree upon the period of such extension. In the event that the Supplier does not accept the Purchaser's estimate of a fair and reasonable time extension, the Supplier shall be entitled to refer the matter to the provisions for the Settlement of Disputes pursuant to GCC Clause 43.

40.3 The Supplier shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.

## **41. Termination**

### **41.1 Termination for Purchaser's Convenience**

41.1.1 The Purchaser may at any time terminate the Contract for any reason by giving the Supplier a notice of termination that refers to this GCC Clause 41.1.

41.1.2 Upon receipt of the notice of termination under GCC Clause 41.1.1, the Supplier shall either as soon as reasonably practical or upon the date specified in the notice of termination

- (a) cease all further work, except for such work as the Purchaser may specify in the notice of termination for the sole purpose of protecting that part of the System already executed, or any

work required to leave the site in a clean and safe condition;

- (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to GCC Clause 41.1.2 (d) (ii) below;
- (c) remove all Supplier's Equipment from the site, repatriate the Supplier's Personnel from the site, remove from the site any wreckage, rubbish, and debris of any kind;
- (d) in addition, the Supplier, subject to the payment specified in GCC Clause 41.1.3, shall
  - (i) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination;
  - (ii) to the extent legally possible, assign to the Purchaser all right, title, and benefit of the Supplier to the System, or Subsystem, as at the date of termination, and, as may be required by the Purchaser, in any subcontracts concluded between the Supplier and its Subcontractors;
  - (iii) deliver to the Purchaser all nonproprietary drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as of the date of termination in connection with the System.

41.1.3 In the event of termination of the Contract under GCC Clause 41.1.1, the Purchaser shall pay to the Supplier the following amounts:

- (a) the Contract Price, properly attributable to the parts of the System executed by the Supplier as of the date of termination;
- (b) the costs reasonably incurred by the Supplier in the removal of the Supplier's Equipment from the site and in the repatriation of the Supplier's Personnel;
- (c) any amount to be paid by the Supplier to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges;

- (d) costs incurred by the Supplier in protecting the System and leaving the site in a clean and safe condition pursuant to GCC Clause 41.1.2 (a); and
- (e) the cost of satisfying all other obligations, commitments, and claims that the Supplier may in good faith have undertaken with third parties in connection with the Contract and that are not covered by GCC Clauses 41.1.3 (a) through (d) above.

#### 41.2 Termination for Supplier's Default

41.2.1 The Purchaser, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons therefore to the Supplier, referring to this GCC Clause 41.2:

- (a) if the Supplier becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Supplier is a corporation, a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Supplier takes or suffers any other analogous action in consequence of debt;
- (b) if the Supplier assigns or transfers the Contract or any right or interest therein in violation of the provision of GCC Clause 42 (Assignment); or
- (c) 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, including but not limited to willful misrepresentation of facts concerning ownership of Intellectual Property Rights in, or proper authorization and/or licenses from the owner to offer, the hardware, software, or materials provided under this Contract.

#### 41.2.2 If the Supplier:

- (a) has abandoned or repudiated the Contract;
- (b) has without valid reason failed to commence work on the System promptly;

- (c) persistently fails to execute the Contract in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause;
- (d) refuses or is unable to provide sufficient Materials, Services, or labor to execute and complete the System in the manner specified in the Agreed Project Plan furnished under GCC Clause 19 at rates of progress that give reasonable assurance to the Purchaser that the Supplier can attain Operational Acceptance of the System by the Time for Achieving Operational Acceptance as extended;

then the Purchaser may, without prejudice to any other rights it may possess under the Contract, give a notice to the Supplier stating the nature of the default and requiring the Supplier to remedy the same. If the Supplier fails to remedy or to take steps to remedy the same within thirty (30) days of its receipt of such notice, then the Purchaser may terminate the Contract forthwith by giving a notice of termination to the Supplier that refers to this GCC Clause 41.2.

41.2.3 Upon receipt of the notice of termination under GCC Clauses 41.2.1 or 41.2.2, the Supplier shall, either immediately or upon such date as is specified in the notice of termination:

- (a) cease all further work, except for such work as the Purchaser may specify in the notice of termination for the sole purpose of protecting that part of the System already executed or any work required to leave the site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to GCC Clause 41.2.3 (d) below;
- (c) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination;
- (d) to the extent legally possible, assign to the Purchaser all right, title and benefit of the Supplier to the System or Subsystems as at the date of termination, and, as may be required by

the Purchaser, in any subcontracts concluded between the Supplier and its Subcontractors;

- (e) deliver to the Purchaser all drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as at the date of termination in connection with the System.

41.2.4 The Purchaser may enter upon the site, expel the Supplier, and complete the System itself or by employing any third party. Upon completion of the System or at such earlier date as the Purchaser thinks appropriate, the Purchaser shall give notice to the Supplier that such Supplier's Equipment will be returned to the Supplier at or near the site and shall return such Supplier's Equipment to the Supplier in accordance with such notice. The Supplier shall thereafter without delay and at its cost remove or arrange removal of the same from the site.

41.2.5 Subject to GCC Clause 41.2.6, the Supplier shall be entitled to be paid the Contract Price attributable to the portion of the System executed as at the date of termination and the costs, if any, incurred in protecting the System and in leaving the site in a clean and safe condition pursuant to GCC Clause 41.2.3 (a). Any sums due the Purchaser from the Supplier accruing prior to the date of termination shall be deducted from the amount to be paid to the Supplier under this Contract.

41.2.6 If the Purchaser completes the System, the cost of completing the System by the Purchaser shall be determined. If the sum that the Supplier is entitled to be paid, pursuant to GCC Clause 41.2.5, plus the reasonable costs incurred by the Purchaser in completing the System, exceeds the Contract Price, the Supplier shall be liable for such excess. If such excess is greater than the sums due the Supplier under GCC Clause 41.2.5, the Supplier shall pay the balance to the Purchaser, and if such excess is less than the sums due the Supplier under GCC Clause 41.2.5, the Purchaser shall pay the balance to the Supplier. The Purchaser and the Supplier shall agree, in writing, on the computation described above and the manner in which any sums shall be paid.

### 41.3 Termination by Supplier

## 41.3.1 If:

- (a) the Purchaser has failed to pay the Supplier any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause **pursuant to the SCC**, or commits a substantial breach of the Contract, the Supplier may give a notice to the Purchaser that requires payment of such sum, with interest on this sum as stipulated in GCC Clause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Purchaser to remedy the same, as the case may be. If the Purchaser fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Supplier's notice; or
- (b) the Supplier is unable to carry out any of its obligations under the Contract for any reason attributable to the Purchaser, including but not limited to the Purchaser's failure to provide possession of or access to the site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the System;

then the Supplier may give a notice to the Purchaser of such events, and if the Purchaser has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Supplier is still unable to carry out any of its obligations under the Contract for any reason attributable to the Purchaser within twenty-eight (28) days of the said notice, the Supplier may by a further notice to the Purchaser referring to this GCC Clause 41.3.1, forthwith terminate the Contract.

- 41.3.2 The Supplier may terminate the Contract immediately by giving a notice to the Purchaser to that effect, referring to this GCC Clause 41.3.2, if the Purchaser becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or,



being a corporation, if a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Purchaser takes or suffers any other analogous action in consequence of debt.

41.3.3 If the Contract is terminated under GCC Clauses 41.3.1 or 41.3.2, then the Supplier shall immediately:

- (a) cease all further work, except for such work as may be necessary for the purpose of protecting that part of the System already executed, or any work required to leave the site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Purchaser pursuant to Clause 41.3.3 (d) (ii);
- (c) remove all Supplier's Equipment from the site and repatriate the Supplier's Personnel from the site.
- (d) In addition, the Supplier, subject to the payment specified in GCC Clause 41.3.4, shall:
  - (i) deliver to the Purchaser the parts of the System executed by the Supplier up to the date of termination;
  - (ii) to the extent legally possible, assign to the Purchaser all right, title, and benefit of the Supplier to the System, or Subsystems, as of the date of termination, and, as may be required by the Purchaser, in any subcontracts concluded between the Supplier and its Subcontractors;
  - (iii) to the extent legally possible, deliver to the Purchaser all drawings, specifications, and other documents prepared by the Supplier or its Subcontractors as of the date of termination in connection with the System.

41.3.4 If the Contract is terminated under GCC Clauses 41.3.1 or 41.3.2, the Purchaser shall pay to the Supplier all payments specified in GCC Clause 41.1.3 and reasonable compensation for all loss, except for

loss of profit, or damage sustained by the Supplier arising out of, in connection with, or in consequence of such termination.

41.3.5 Termination by the Supplier pursuant to this GCC Clause 41.3 is without prejudice to any other rights or remedies of the Supplier that may be exercised in lieu of or in addition to rights conferred by GCC Clause 41.3.

41.4 In this GCC Clause 41, the expression “portion of the System executed” shall include all work executed, Services provided, and all Information Technologies, or other Goods acquired (or subject to a legally binding obligation to purchase) by the Supplier and used or intended to be used for the purpose of the System, up to and including the date of termination.

41.5 In this GCC Clause 41, in calculating any monies due from the Purchaser to the Supplier, account shall be taken of any sum previously paid by the Purchaser to the Supplier under the Contract, including any advance payment paid **pursuant to the SCC.**

## **42. Assignment**

42.1 Neither the Purchaser nor the Supplier shall, without the express prior written consent of the other, assign to any third party the Contract or any part thereof, or any right, benefit, obligation, or interest therein or thereunder, except that the Supplier shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.

# **I. SETTLEMENT OF DISPUTES**

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## **43. Settlement of Disputes**

43.1 Adjudication

43.1.1 If any dispute of any kind whatsoever shall arise between the Purchaser and the Supplier in connection with or arising out of the Contract, including without prejudice to the generality of the foregoing, any question regarding its existence, validity, or termination, or the operation of the System (whether during the progress of implementation or after its achieving Operational Acceptance and whether before or after the termination, abandonment, or breach of the Contract), the parties shall seek to resolve any such dispute by mutual consultation. If

the parties fail to resolve such a dispute by mutual consultation within fourteen (14) days after one party has notified the other in writing of the dispute, then, if the Contract Agreement in Appendix 2 includes and names an Adjudicator, the dispute shall, within another fourteen (14) days, be referred in writing by either party to the Adjudicator, with a copy to the other party. If there is no Adjudicator specified in the Contract Agreement, the mutual consultation period stated above shall last twenty-eight (28) days (instead of fourteen), upon expiry of which either party may move to the notification of arbitration pursuant to GCC Clause 43.2.1.

- 43.1.2 The Adjudicator shall give his or her decision in writing to both parties within twenty-eight (28) days of the dispute being referred to the Adjudicator. If the Adjudicator has done so, and no notice of intention to commence arbitration has been given by either the Purchaser or the Supplier within fifty-six (56) days of such reference, the decision shall become final and binding upon the Purchaser and the Supplier. Any decision that has become final and binding shall be implemented by the parties forthwith.
- 43.1.3 The Adjudicator shall be paid an hourly fee at the rate specified in the Contract Agreement plus reasonable expenditures incurred in the execution of duties as Adjudicator, and these costs shall be divided equally between the Purchaser and the Supplier.
- 43.1.4 Should the Adjudicator resign or die, or should the Purchaser and the Supplier agree that the Adjudicator is not fulfilling his or her functions in accordance with the provisions of the Contract, a new Adjudicator shall be jointly appointed by the Purchaser and the Supplier. Failing agreement between the two within twenty-eight (28) days, the new Adjudicator shall be appointed at the request of either party by the Appointing Authority **specified in the SCC**, or, if no Appointing Authority is **specified in SCC**, the Contract shall, from this point onward and until the parties may otherwise agree on an Adjudicator or an Appointing Authority, be implemented as if there is no Adjudicator.

## 43.2 Arbitration

## 43.2.1 If

- (a) the Purchaser or the Supplier is dissatisfied with the Adjudicator's decision and acts before this decision has become final and binding pursuant to GCC Clause 43.1.2, or
- (b) the Adjudicator fails to give a decision within the allotted time from referral of the dispute pursuant to GCC Clause 43.1.2, and the Purchaser or the Supplier acts within the following fourteen (14) days, or
- (c) in the absence of an Adjudicator from the Contract Agreement, the mutual consultation pursuant to GCC Clause 43.1.1 expires without resolution of the dispute and the Purchaser or the Supplier acts within the following fourteen (14) days,

then either the Purchaser or the Supplier may act to give notice to the other party, with a copy for information to the Adjudicator in case an Adjudicator had been involved, of its intention to commence arbitration, as provided below, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.

43.2.2 Any dispute in respect of which a notice of intention to commence arbitration has been given, in accordance with GCC Clause 43.2.1, shall be finally settled by arbitration. Arbitration may be commenced prior to or after Installation of the Information System.

43.2.3 Arbitration proceedings shall be conducted in accordance with the rules of procedure **specified in the SCC**.

43.3 Notwithstanding any reference to the Adjudicator or arbitration in this clause,

- (a) the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree;
- (b) the Purchaser shall pay the Supplier any monies due the Supplier.

## APPENDIX 1

### Fraud and Corruption

*(Text in this Appendix 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;<sup>1</sup> (ii) to be a nominated<sup>2</sup> 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 inspect<sup>3</sup> all accounts,

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<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the Bank.

## APPENDIX 2

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

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

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

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

Contract reference *[insert contract reference]*

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

<b>SEA and/or SH Declaration</b>
<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

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## Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement or amend the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions of the SCC shall prevail over those in the General Conditions of Contract. For the purposes of clarity, any referenced GCC clause numbers are indicated in the left column of the SCC.

### A. CONTRACT AND INTERPRETATION

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#### Definitions (GCC Clause 1)

GCC 1.1 (a) (ix)	The applicable edition of the Procurement Regulation is dated: <i>Procurement Regulations for IPF Borrowers” dated November 2020</i> <i>(“Procurement Regulations”)</i>
GCC 1.1 (b) (i)	The Purchaser is: <i>The State Revenue Committee of the Republic of Armenia and the Office of the Prime-Minister of the Republic of Armenia</i>
GCC 1.1 (b) (ii)	The Project Manager is: Ashot Muradyan, Deputy Chairman of RA SRC.
GCC 1.1 (e) (i)	The Purchaser’s Country is: <i>Republic of Armenia</i>
GCC 1.1 (e) (x)	<b>There are no Special Conditions associated with GCC 1.1 (e) (x).</b>
GCC 1.1 (e) (xiii)	Not applicable

#### Interpretation( GCC Clause 3)

GCC 3.1.1	All Contract Documents and related correspondence exchanged between Purchaser and Supplier shall be written in English unless otherwise required in the Technical Requirements of Section VII and other Clauses of SCC.
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#### Notices ( GCC Clause 4)

GCC 4.3	Address of the Project Manager: <i>RA State Revenue Committee</i> <i>3, 7 Movses Khorenatsi St.,</i>
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	<i>Yerevan 0015, Armenia</i>
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## B. SUBJECT MATTER OF CONTRACT

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### Scope of the System ( GCC Clause 7)

GCC 7.3	<p>The Supplier's obligations under the Contract will include the following recurrent cost items, as identified in the Recurrent Cost tables in the Supplier's Bid:</p> <p><b>not applicable</b></p>
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### Time for Commencement and Operational Acceptance ( GCC Clause 8)

GCC 8.1	The Supplier shall commence work on the System from the Effective Date of the Contract.
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### Supplier's Responsibilities ( GCC Clause 9)

GCC 9.1	Health and safety manual is not required.
GCC 9.8	The following sustainable procurement contractual provisions, apply: <b>none</b>
GCC 9.18	The Supplier is <b>not required</b> to make security arrangements for the Project Site/s.

## C. PAYMENT

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### Contract Price ( GCC Clause 11)

GCC 11.2	Adjustments to the Contract Price shall be as follows: <b>not applicable</b> .
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### Terms of Payment ( GCC Clause 12)

GCC 12.1	Subject to the provisions of GCC Clause 12 (Terms of Payment), the Purchaser shall pay the Contract Price to the Supplier according to the categories and in the manner specified below. Only the categories of Advance Payment pertain to the entire Contract Price. In other payment
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categories, the term “total Contract Price” means the total cost of goods or services under the specific payment category. Within each such category, the Contract Implementation Schedule may trigger pro-rata payments for the portion of the total Contract Price for the category corresponding to the goods or services actually Delivered, Installed, or Operationally Accepted, at prices and in the currencies specified in the Price Schedules of the Contract Agreement.

#### **Advance Payment**

Ten percent (10%) of the entire Contract Price shall be paid against receipt of a claim accompanied by the Advance Payment Security specified in GCC Clause 13.2. The Advance Payment Security amount shall be reduced as per terms specified under GCC Clause 13.2.2.

#### **The Contract Price shall be paid in installments, based on the following payments schedule:**

##### **1. Phase 1. Study of the operating system, Developing technical documentation of the system**

For Phase 1, a payment of ten percent (10%) of the total Contract Price shall be paid against acceptance of Phase 1, within forty-five (45) days upon submission of claim supported by the Act of Acceptance issued by the Purchaser.

##### **2. Phase 2 – Development of Data Management and Analysis System**

For Phase 2, a payment of twenty percent (20%) of the total Contract Price shall be paid against acceptance of Phase 2, within forty-five (45) days upon submission of claim supported by the Act of Acceptance issued by the Purchaser.

##### **3. Phase 3 – Development of Operations Management Subsystem (including Adaptive Machine Learning and Artificial Intelligence Subsystem)**

For Phase 3, a payment of twenty percent (20%) of the total Contract Price shall be paid against Acceptance of Phase 3, within forty-five (45) days upon submission of claim supported by the Act of Acceptance issued by the Purchaser.

##### **4. Phase 4- Development of BI Subsystem**

For Phase 4, a payment of fifteen percent (15%) of the total Contract Price shall be paid against Acceptance of Phase 4, upon submission of claim supported by the Act of Acceptance issued by the Purchaser.

	<p><b>5. Phase 5 - Production Installation of Data Management and Analysis System</b></p> <p>For Phase 5, a payment of fifteen percent (15%) of the total Contract Price shall be paid against Acceptance of Phase 5, within forty-five (45) days upon submission of claim supported by the Act of Acceptance issued by the Purchaser.</p> <p><b>6. Complete System Integration</b></p> <p>For Complete System Integration, a payment of twenty percent (20%) of the total Contract Price envisaged for the Information System, as final payment against Operational Acceptance of the System as an integrated whole, shall be paid within forty-five (45) days upon submission of claim supported by the Act of Acceptance issued by the Purchaser.</p> <p>The payment of the Contract price, excluding local taxes, shall be made using the funds from the Fourth Public Sector Modernization Project (LOAN NUMBER 9338-AM). Local taxes shall be paid using the funds from the RA State Budget. The Office of the Prime-Minister of the Republic of Armenia will be responsible for processing payments for delivered goods and implemented services. The payments shall be made based on the Act of Acceptance, which should contain a description of the delivered Goods (with part numbers (if applicable)) and implemented services, issued by the SRC.</p>
GCC 12.3	The Purchaser shall pay to the Supplier interest on the delayed payments at a rate of: 6 % per annum.
GCC 12.4	The Supplier will invoice the Purchaser in the currency used in the Contract Agreement and the Price Schedules it refers to.

### Securities ( GCC Clause 13)

GCC 13.3.1	The Performance Security shall be denominated in currency stated in the Contract Agreement for an amount equal to ten (10) percent of the Contract Price.
GCC 13.3.4	During the Warranty Period (i.e., after Operational Acceptance of the System), the Performance Security shall be reduced to 2.5 percent of the Contract Price.

## D. INTELLECTUAL PROPERTY

### Copyright ( GCC Clause 15)

GCC 15.3	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 15.3</i></b>
GCC 15.4	<p>The rights and obligations of the Purchaser and the Supplier regarding Custom Software or its elements are outlined as follows:</p> <p>The Supplier grants the Purchaser a permanent, irrevocable license for the Custom Software and associated materials. This license allows the Purchaser, its subordinate organizational units, and any legal successors to use, modify, extend, duplicate, and create derivative software or materials for normal activities conducted by the Purchaser.</p> <p>Prior to Operational Acceptance, the Supplier shall provide the Purchaser with a copy of the Source Code of the Custom Software, along with all relevant documents, as specified in the deadlines outlined in the Technical Requirements/Implementation Schedule Table of the Information System.</p> <p>Ownership of the System should belong to the Purchaser. The full source code of the system should be submitted to the Purchaser after completion of the project. The Purchaser will have right to transfer the source code to third parties for modernization, audit, backup and maintenance purposes.</p> <p>The Intellectual Property Rights will be finalized in the contract given the specifics of the system. The Ownership of the System and/or the customized components of it should belong to the Purchaser. The full source code of the system should be submitted to the Purchaser after completion of the project.</p> <p>By signing the agreement, the contracting organization, within 3 days, should hand over all rights to system developed on the basis of this contract and to maintain, service, improve and make any necessary changes during the term of the contract and the entire system, including all components, software modules, technical solutions used, rights to use and access to information about the Information system developed under this Contract (software programs that run the programs, all software support required for their operation, source codes, all rights of ownership of computer programs, graphic, audio elements, databases, necessary preparatory materials for creating the relevant computer program).</p>

	<p>The Supplier represents and warrants the following to the Purchaser:</p> <p>(a) The Source Code and related documents supplied to the Purchaser for the customized part are complete, accurate, and up-to-date, reflecting the exact version of the software in production at the time of Final Acceptance.</p> <p>(b) During the warranty period, if any changes occur in the production release, the Supplier will provide the Purchaser with updated Source Code and related documents within fifteen (15) days. These updates shall also be complete, accurate, and up-to-date, corresponding to the current production release.</p> <p>(c) The Source Code includes all necessary information in human-readable form for a reasonably skilled programmer or analyst to maintain and enhance the Custom Software. This includes programmers' comments, data and process models, logic manuals, flowcharts, and any other relevant documentation.</p>
GCC 15.5	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 15.5</i></b>

#### Software License Agreements ( GCC Clause 16)

GCC 16.1 (a) (iv)	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (a) (iv)</i></b>
GCC 16.1 (b) (vi)	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (b) (vi)</i></b>
GCC 16.1 (b) (vii)	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 16.1 (b) (vii)</i></b>
GCC 16.2	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 16.2</i></b>

#### Confidential Information ( GCC Clause 17)

GCC 17.1	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 17.1</i></b>
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## E. SUPPLY, INSTALLATION, TESTING, COMMISSIONING, AND ACCEPTANCE OF THE SYSTEM

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### Representatives ( GCC Clause 18)

GCC 18.1	<i>There are no Special Conditions of Contract applicable to GCC Clause 18</i>
GCC 18.2.2	<i>There are no Special Conditions of Contract applicable to GCC Clause 18.2.2</i>

### Project Plan ( GCC Clause 19)

GCC 19.1	<p>Chapters in the Project Plan shall address the following subject:</p> <ul style="list-style-type: none"> <li>b) <b>Project Organization and Management Sub-Plan, including management authorities, responsibilities, and contacts, as well as task, time and resource-bound schedules (in GANTT format);</b></li> <li>c) <b>Implementation Sub-Plan;</b></li> <li>d) <b>Delivery and Installation Sub-Plan;</b></li> <li>e) <b>Warranty Defect Repair Service Sub-Plan;</b></li> <li>f) <b>Architectural design of the Proposed solution;</b></li> <li>g) <b>System Integration Sub-Plan.</b></li> </ul>
GCC 19.2	<p>The timeline for the Project Plan review and correction process is as follows:</p> <p>The Supplier shall present the Project Plan to the Purchaser according to the timeframe specified in the Implementation Schedule.</p> <p>The Purchaser shall notify the Supplier of any non-conformities within five (5) days of receiving the Project Plan if it fails to adequately ensure that the proposed program of work, methods, and/or Information Technologies meet the Technical Requirements and/or the SCC. Upon receiving such notification, the Supplier shall correct the Project Plan within five (5) days and resubmit it to the Purchaser. The Purchaser, within five (5) days of receiving</p>

	the revised Project Plan, shall notify the Supplier of any remaining non-conformities. This procedure will continue until the Project Plan is free from non-conformities. Once the Project Plan is free from non-conformities, the Purchaser shall provide written confirmation to the Supplier. The approved Project Plan, known as the "Agreed and Finalized Project Plan," will be binding on both the Purchaser and the Supplier as per the contract.
GCC 19.6	<p><b><i>The Supplier shall submit to the Purchaser:</i></b></p> <ol style="list-style-type: none"> <li>Supplier shall submit to the Purchaser a monthly report (on the 15th of each month) with the following structure and content:             <ol style="list-style-type: none"> <li>Completed services: in this section of the report the Supplier should provide the status of services performed/implemented during the previous months in accordance with the Project Plan.</li> <li>Services in progress: in this section of the report, information is presented about the progress of the services that are planned for the given month in the Project plan.</li> </ol> </li> <li>The Supplier provides the Purchaser the Source Code of the programmed system and its description after finishing every phase. The description should be provided in a readable form so that the programmer or analyst can maintain and improve the software. The Source Code and related documentation must contain all developer comments, information models, process queue diagrams, etc.</li> <li>The Supplier shall submit a final report to the Purchaser.</li> </ol> <p>The reports must be provided electronically in the Armenian language.</p>

### **Design and Engineering ( GCC Clause 21)**

GCC 21.3.1	<i>After completion of each Phase identified under Implementation Schedule the Supplier shall prepare and furnish to the Project Manager Phase Report, which should include all services performed under the relevant Phase attaching all documents developed under it and existing Source Code(s).</i>
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### **Product Upgrades ( GCC Clause 23)**

GCC 23.4	<b><i>There are no Special Conditions of Contract applicable to GCC Clause 23.4.</i></b>
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**Inspections and Tests ( GCC Clause 25)**

GCC 25	<i>There are no Special Conditions of Contract applicable to GCC Clause 25.</i>
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**Commissioning and Operational Acceptance ( GCC Clause 27)**

GCC 27.2.1	<i>There are no Special Conditions of Contract applicable to GCC Clause 27.2.1.</i>
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**F. GUARANTEES AND LIABILITIES**

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**Operational Acceptance Time Guarantee ( GCC Clause 28)**

GCC 28.2	<i>There are no Special Conditions of Contract applicable to GCC Clause 28.2.</i>  Note: The Liquidated damages milestones are specified in the Implementation Schedule or the Agreed Project Plan.
GCC 28.3	<i>Liquidated damages payable under GCC Clause 28.2 shall be applied to the failure Delivery or Installation of the relevant Subsystem / Component/ Item as indicated in the Implementation Schedule.</i>

**Defect Liability ( GCC Clause 29)**

GCC 29.1	<i>There are no Special Conditions of Contract applicable to GCC Clause 29.1.</i>
GCC 29.4	<i>The Warranty Period shall commence from the date of Operational Acceptance of the System and shall extend for twelve (12) months.</i>
GCC 29.10	<i>There are no Special Conditions of Contract applicable to GCC Clause 29.10</i>

**Functional Guarantees ( GCC Clause 30)**

GCC 30	<i>There are no Special Conditions of Contract applicable to GCC Clause 30.</i>
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**G. RISK DISTRIBUTION****Insurances ( GCC Clause 37)**

GCC 37.1 (c)	<p>The Supplier shall obtain Third-Party Liability Insurance</p> <ul style="list-style-type: none"> <li>(i) covering bodily injury or death suffered by third parties (including the Purchaser's personnel), occurring in connection with the supply and installation of the Information System, in the amount of US\$1,000/person without deductible;</li> <li>(ii) covering loss of or damage to property (including the Purchaser's property and any Subsystems that have been accepted by the Purchaser), occurring in connection with the supply and installation of the Information System, in amount of US\$100,000/occurrence without limit of a number of occurrences.</li> </ul> <p>The Insurance shall cover the period from <i>relative to the Effective Date of the Contract</i> until <i>its completion</i>.</p>
GCC 37.1 (e)	<i>There are no Special Conditions of Contract applicable to GCC Clause 37.1 (e).</i>

**H. CHANGE IN CONTRACT ELEMENTS****Changes to the System ( GCC Clause 39)**

GCC 39.4	<p><b>Value Engineering</b></p> <p>The Purchaser <i>will not</i> consider a Value Engineering Proposal.</p>
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## I. SETTLEMENT OF DISPUTES

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### Settlement of Disputes (GCC Clause 43)

GCC 43.1.4	The Appointing Authority for the Adjudicator is: <i>not applicable</i> .
GCC 43.2.3	<p>If the Supplier is from outside the Purchaser's Country arbitration proceedings shall be conducted in accordance with the rules of arbitration of <b>UNCITRAL</b>. These rules, in the version in force at the time of the request for arbitration, will be deemed to form part of this Contract.</p> <p>If the Supplier is a national of the Purchaser's Country, any dispute between the Purchaser and a Supplier arising in connection with the present Contract shall be referred to arbitration in accordance with the laws of the Purchaser's country.</p>

## SECTION X - CONTRACT FORMS

### Notes to Bidders on working with the Sample Contractual Forms

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The following forms are to be completed and submitted by the successful Bidder following receipt of the Letter of Acceptance from the Purchaser: (i) Contract Agreement, with all Appendices; (ii) Performance Security; and (iii) Advance Payment Security.

- **Contract Agreement:** In addition to specifying the parties and the Contract Price, the Contract Agreement is where the: (i) Supplier Representative; (ii) if applicable, agreed Adjudicator and his/her compensation; and (iii) the List of Approved Subcontractors are specified. In addition, modifications to the successful Bidder's Bid Price Schedules are attached to the Agreement. These contain corrections and adjustments to the Supplier's bid prices to correct errors, adjust the Contract Price to reflect – if applicable - any extensions to bid validity beyond the last day of original bid validity plus 56 days, etc.
- **Performance Security:** Pursuant to GCC Clause 13.3, the successful Bidder is required to provide the Performance Security in the form contained in this section of these bidding documents and in the amount specified in accordance with the SCC.
- **Advance Payment Security:** Pursuant to GCC Clause 13.2, the successful Bidder is required to provide a bank guarantee for the full amount of the Advance Payment - if an Advance Payment is specified in the SCC for GCC Clause 12.1 - in the form contained in this section of these bidding documents or another form acceptable to the Purchaser. If a Bidder wishes to propose a different Advance Payment Security form, it should submit a copy to the Purchaser promptly for review and confirmation of acceptability before the bid submission deadline.

The Purchaser and Supplier will use the following additional forms during Contract implementation to formalize or certify important Contract events: (i) the Installation and Operational Acceptance Certificates; and (ii) the various Change Order forms. These and the procedures for their use during performance of the Contract are included in the bidding documents for the information of Bidders.

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## NOTIFICATION OF INTENTION TO AWARD

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*[This Notification of Intention to Award shall be sent to each Bidder that submitted a Bid.]*

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

For the attention of Bidder's Authorized Representative

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

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

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

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

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

DATE OF TRANSMISSION: This Notification is sent by: *[specify **email** / **fax**]* on *[specify **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 Bidder]</i>
Total combined score:	<i>[insert the total combined score of the successful Bidder]</i>

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

Name of Bidder	Technical Score (If applicable)	Bid price	Evaluated Bid Cost	Combined Score (if applicable)
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>
<i>[insert name]</i>	<i>[insert Technical score]</i>	<i>[insert Bid price]</i>	<i>[insert evaluated cost]</i>	<i>[insert combined score]</i>

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

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

## 4. How to request a debriefing

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

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

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

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

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

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

Fax number: *[insert fax number or state “not applicable”]*

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

**DEADLINE:** The deadline for submitting a Procurement-related Complaint challenging the decision to award the contract expires on 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 or state “not applicable”]*

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.

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 procurement, 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 deadline 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. This may happen where we are unable to provide a debriefing within the five (5) Business Day deadline. If this happens we will notify you of the extension.

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

On behalf of the Purchaser:

**Signature:** \_\_\_\_\_

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

Agency: *[insert name of Purchaser]*

Email address: *[insert email address]*

Telephone number: *[insert telephone number]*

## 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>			
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**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: \_\_\_\_\_

Date signed *[insert ordinal number]* 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

---

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]*

Date: *[insert Date]*

To: *[insert Name of Bidder]*

This is to notify you that your Bid dated *[insert Date]* for execution of the *[insert brief description of the Information System]* for the Contract Price in the aggregate of *[insert amount in figures]* (*[insert amount in words]*), 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 BDS ITB 47.1 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: *[insert Name and Title]*

Name of Agency: *[insert Purchaser Name]*

Attachment: Contract Agreement

## 1. CONTRACT AGREEMENT

---

THIS CONTRACT AGREEMENT is made

the [ *insert: ordinal number* ] day of [ *insert: month* ], [ *insert: year* ].

BETWEEN

- (1) [ *insert: Name of Purchaser* ], a [ *insert: description of type of legal entity, for example, an agency of the Ministry of . . .* ] of the Government of [ *insert: country of Purchaser* ], or corporation incorporated under the laws of [ *insert: country of Purchaser* ] and having its principal place of business at [ *insert: address of Purchaser* ] (hereinafter called “the Purchaser”), 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”).

WHEREAS the Purchaser desires to engage the Supplier to supply, install, achieve Operational Acceptance of, and support the following Information System [ *insert: brief description of the Information System* ] (“the System”), and the Supplier has agreed to such engagement upon and subject to the terms and conditions appearing below in this Contract Agreement.

NOW IT IS HEREBY AGREED as follows:

- |                    |   |
|--------------------|---|
| Article 1.         | 1.1 Contract Documents (Reference GCC Clause 1.1 (a) (ii))  |
| Contract Documents | <p>The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the Contract:</p> <ol style="list-style-type: none"> <li>(a) This Contract Agreement and the Appendices attached to the Contract Agreement</li> <li>(b) Special Conditions of Contract</li> <li>(c) General Conditions of Contract</li> <li>(d) Technical Requirements (including Implementation Schedule)</li> <li>(e) The Supplier’s bid and original Price Schedules</li> <li>(f) Code of Conduct for Supplier’s Personnel</li> </ol> |

(g) [ *Add here: any other documents* ]

1.2 Order of Precedence (Reference GCC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1 (Contract Documents) above, provided that Appendix 7 shall prevail over all provisions of the Contract Agreement and the other Appendices attached to the Contract Agreement and all the other Contract Documents listed in Article 1.1 above.

1.3 Definitions (Reference GCC Clause 1)

Capitalized words and phrases used in this Contract Agreement shall have the same meanings as are ascribed to them in the General Conditions of Contract.

Article 2.

Contract Price and  
Terms of Payment

2.1 Contract Price (Reference GCC Clause 1.1(a)(viii) and GCC Clause 11)

The Purchaser hereby agrees to pay to the Supplier the Contract Price in consideration of the performance by the Supplier of its obligations under the Contract. The Contract Price shall be the aggregate of: [ *insert: amount of foreign currency A in words* ], [ *insert: amount in figures* ], plus [ *insert: amount of foreign currency B in words* ], [ *insert: amount in figures* ], plus [ *insert: amount of foreign currency C in words* ], [ *insert: amount in figures* ], [ *insert: amount of local currency in words* ], [ *insert: amount in figures* ], as specified in the Grand Summary Price Schedule.

The Contract Price shall be understood to reflect the terms and conditions used in the specification of prices in the detailed price schedules, including the terms and conditions of the associated Incoterms, and the taxes, duties and related levies if and as identified.

Article 3.

Effective Date for  
Determining Time  
for Operational  
Acceptance

3.1 Effective Date (Reference GCC Clause 1.1 (e) (ix))

The time allowed for supply, installation, and achieving Operational Acceptance of the System shall be determined from the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Purchaser and the Supplier;
- (b) The Supplier has submitted to the Purchaser the performance security and the advance payment security, in accordance with GCC Clause 13.2 and GCC Clause 13.3;
- (c) The Purchaser has paid the Supplier the advance payment, in accordance with GCC Clause 12;



Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

- 3.2 If the conditions listed under 3.1 are not fulfilled within two (2) months from the date of this Contract Agreement because of reasons not attributable to the Supplier, the parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for Achieving Operational Acceptance and/or other relevant conditions of the Contract.

Article 4.

- 4.1 The Appendixes listed below shall be deemed to form an integral part of this Contract Agreement.

Appendixes

- 4.2 Reference in the Contract to any Appendix shall mean the Appendixes listed below and attached to this Contract Agreement, and the Contract shall be read and construed accordingly.

#### APPENDIXES

- Appendix 1. Supplier's Representative
- Appendix 2. Adjudicator [*if there is no Adjudicator, state "not applicable"*]
- Appendix 3. List of Approved Subcontractors
- Appendix 4. Categories of Software
- Appendix 5. Custom Materials
- Appendix 6. Revised Price Schedules (if any)
- Appendix 7. Minutes of Contract Finalization Discussions and Agreed-to Contract Amendments

IN WITNESS WHEREOF the Purchaser and the Supplier have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

For and on behalf of the Purchaser

Signed:

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

in the presence of

For and on behalf of the Supplier

Signed:

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

in the presence of

CONTRACT AGREEMENT

dated the [ *insert: number* ] day of [ *insert: month* ], [ *insert: year* ]

BETWEEN

[ *insert: name of Purchaser* ], “the Purchaser”

and

[ *insert: name of Supplier* ], “the Supplier”

## Appendix 1. Supplier's Representative

In accordance with GCC Clause 1.1 (b) (iv), the Supplier's Representative is:

Name: *[ insert: name and provide title and address further below, or state "to be nominated within fourteen (14) days of the Effective Date" ]*

Title: *[ if appropriate, insert: title ]*

In accordance with GCC Clause 4.3, the Supplier's addresses for notices under the Contract are:

Address of the Supplier's Representative: *[ as appropriate, insert: personal delivery, postal, cable, facsimile, electronic mail, and/or EDI addresses. ]*

Fallback address of the Supplier: *[ as appropriate, insert: personal delivery, postal, cable, facsimile, electronic mail, and/or EDI addresses. ]*

## Appendix 2. Adjudicator

In accordance with GCC Clause 1.1 (b) (vi), the agreed-upon Adjudicator is:

Name: [ *insert: name* ]

Title: [ *insert: title* ]

Address: [ *insert: postal address* ]

Telephone: [ *insert: telephone* ]

In accordance with GCC Clause 43.1.3, the agreed-upon fees and reimbursable expenses are:

Hourly Fees: [ *insert: hourly fees* ]

Reimbursable Expenses: [ *list: reimbursables* ]

Pursuant to GCC Clause 43.1.4, if at the time of Contract signing, agreement has not been reached between the Purchaser and the Supplier, an Adjudicator will be appointed by the Appointing Authority named in the SCC.



## Appendix 4. Categories of Software

The following table assigns each item of Software supplied and installed under the Contract to one of the three categories: (i) System Software, (ii) General-Purpose Software, or (iii) Application Software; and to one of the two categories: (i) Standard Software or (ii) Custom Software and to one of the two categories: (i) Proprietary or (ii) Open Source.

Title	(select one per title)			(select one per title)		(select one per title)	
	System	General-Purpose	Application	Standard	Custom	Proprietary	Open Source
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							
[insert Title]							

**Appendix 5. Custom Materials**

The follow table specifies the Custom Materials the Supplier will provide under the Contract.

Custom Materials
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>
<i>[insert Title and description]</i>

## **Appendix 6. Revised Price Schedules**

The attached Revised Price Schedules (if any) shall form part of this Contract Agreement and, where differences exist, shall supersede the Price Schedules contained in the Supplier's Bid. These Revised Price Schedules reflect any corrections or adjustments to the Supplier's bid price, pursuant to the ITB Clauses 30.3 and 38.2.



## **Appendix 7. Minutes of Contract Finalization Discussions and Agreed-to Contract Amendments**

The attached Contract amendments (if any) shall form part of this Contract Agreement and, where differences exist, shall supersede the relevant clauses in the GCC, SCC, Technical Requirements, or other parts of this Contract as defined in GCC Clause 1.1 (a) (ii).

---

## **2. PERFORMANCE AND ADVANCE PAYMENT SECURITY FORMS**

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## 2.1 Performance Security Form (Bank Guarantee)

### (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]*

*[insert: **Bank's Name, and Address of Issuing Branch or Office**]*

Beneficiary: *Office of the Prime-Minister of the Republic of Armenia (Republic Square, Government House 1, 0010 Yerevan, Armenia) and State Revenue Committee of the Republic of Armenia (3, 7 Movses Khorenatsi St., Yerevan 0015, Armenia)*

Date: *[insert: **date**]*

PERFORMANCE GUARANTEE No.: *[insert: **Performance Guarantee Number**]*

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

We have been informed that on *[insert: **date of award**]* you awarded Contract No. *[insert: **Contract number**]* for *[insert: **title and/or brief description of the Contract**]* (hereinafter called "the Contract") to *[insert: **complete name of Supplier which in the case of a joint venture shall be in the name of the joint venture**]* (hereinafter called "the Applicant"). 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 you any sum(s) not exceeding *[insert: **amount(s)<sup>1</sup> in figures and words**]* such sum being payable in the types and proportions of currencies which the Contract Price is payable upon receipt by us of 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 or reasons for their demand or the sum specified therein.

On the date of your issuing, to the Supplier, the Operational Acceptance Certificate for the System, the value of this guarantee will be reduced to any sum(s) not exceeding *[insert: **amount(s)<sup>1</sup> in figures and words**]*. This remaining guarantee shall expire no later than *[insert: **number and select: of months/of years** (of the Warranty Period that needs to be covered by the remaining*

---

<sup>1</sup> The bank shall insert the amount(s) specified and denominated in the SCC for GCC Clauses 13.3.1 and 13.3.4 respectively, either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Purchaser.

*guarantee*)] from the date of the Operational Acceptance Certificate for the System,<sup>1</sup> and any demand for payment under it 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 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.]*

---

<sup>1</sup> *In this sample form, the formulation of this paragraph reflects the usual SCC provisions for GCC Clause 13.3. However, if the SCC for GCC Clauses 13.3.1 and 13.3.4 varies from the usual provisions, the paragraph, and possibly the previous paragraph, need to be adjusted to precisely reflect the provisions specified in the SCC.*

## 2.2 Advance Payment Security Bank Guarantee

*[Guarantor letterhead or SWIFT identifier code]*

Beneficiary: Office of the Prime-Minister of the Republic of Armenia (Republic Square, Government House 1, 0010 Yerevan, Armenia) and State Revenue Committee of the Republic of Armenia (3, 7 Movses Khorenatsi St., Yerevan 0015, Armenia)

Date: *[insert date of issue]*

ADVANCE PAYMENT GUARANTEE No.: *[insert: Advance Payment Guarantee Number]*

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

We have been informed that on *[insert: date of award]* you awarded Contract No. *[insert: Contract number]* for *[insert: title and/or brief description of the Contract]* (hereinafter called "the Contract") to *[insert: complete name of Supplier, which in the case of a joint venture shall be the name of the joint venture]* (hereinafter called "the Applicant").

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of *[insert: amount in numbers and words, for each currency of the advance payment]* is to be made to the Supplier 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]*)<sup>1</sup> 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.

---

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

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

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Applicant as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that hundred (100) percent of the Accepted Contract Amount, has been certified for payment, or on the [insert day] day of [insert month], [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.]*

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### **3. INSTALLATION AND ACCEPTANCE CERTIFICATES**

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#### **3. Installation and Acceptance Certificates**

### 3.1 Installation Certificate

Date: [ insert: ***date*** ]

Loan/Credit Number: [ insert: ***loan or credit number from RFB*** ]

RFB: [ insert: ***title and number of RFB*** ]

Contract: [ insert: ***name and number of Contract*** ]

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

Dear Sir or Madam:

Pursuant to GCC Clause 26 (Installation of the System) of the Contract entered into between yourselves and the [ insert: ***name of Purchaser*** ] (hereinafter the “Purchaser”) dated [ insert: ***date of Contract*** ], relating to the [ insert: ***brief description of the Information System*** ], we hereby notify you that the System (or a Subsystem or major component thereof) was deemed to have been correctly installed on the date specified below.

1. Description of the System (or relevant Subsystem or major component: [ insert: ***description*** ]
2. Date of Installation: [ insert: ***date*** ]

Notwithstanding the above, you are required to complete the outstanding items listed in the attachment to this certificate as soon as practicable. This letter shall not relieve you of your obligation to achieve Operational Acceptance of the System in accordance with the Contract nor of your obligations during the Warranty Period.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [ state: ***“Project Manager”*** or specify a higher level authority in the Purchaser’s organization ]



### 3.2 Operational Acceptance Certificate

Date: [ insert: **date** ]

Loan/Credit Number: [ insert: **loan or credit number from RFB** ]

RFB: [ insert: **title and number of RFB** ]

Contract: [ insert: **name of System or Subsystem and number of Contract** ]

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

Dear Sir or Madam:

Pursuant to GCC Clause 27 (Commissioning and Operational Acceptance) of the Contract entered into between yourselves and the [ insert: **name of Purchaser** ] (hereinafter the “Purchaser”) dated [ insert: **date of Contract** ], relating to the [ insert: **brief description of the Information System** ], we hereby notify you the System (or the Subsystem or major component identified below) successfully completed the Operational Acceptance Tests specified in the Contract. In accordance with the terms of the Contract, the Purchaser hereby takes over the System (or the Subsystem or major component identified below), together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

1. Description of the System (or Subsystem or major component): [ insert: **description** ]
2. Date of Operational Acceptance: [ insert: **date** ]

This letter shall not relieve you of your remaining performance obligations under the Contract nor of your obligations during the Warranty Period.

For and on behalf of the Purchaser

Signed: \_\_\_\_\_

Date: [ insert: **date** ]

in the capacity of: [ state: **“Project Manager”** or specify a higher level authority in the Purchaser’s organization ]

## 4. CHANGE ORDER PROCEDURES AND FORMS

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Date: [ *insert: date* ]

Loan/Credit Number: [ *insert: loan or credit number from RFB* ]

RFB: [ *insert: title and number of RFB* ]

Contract: [ *insert: name or System or Subsystem and number of Contract* ]

### General

This section provides samples of procedures and forms for carrying out changes to the System during the performance of the Contract in accordance with GCC Clause 39 (Changes to the System) of the Contract.

### Change Order Log

The Supplier shall keep an up-to-date Change Order Log to show the current status of Requests for Change and Change Orders authorized or pending. Changes shall be entered regularly in the Change Order Log to ensure that the log is kept up-to-date. The Supplier shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Purchaser.

### References to Changes

- (1) Request for Change Proposals (including Application for Change Proposals) shall be serially numbered CR-nnn.
- (2) Change Estimate Proposals shall be numbered CN-nnn.
- (3) Estimate Acceptances shall be numbered CA-nnn.
- (4) Change Proposals shall be numbered CP-nnn.
- (5) Change Orders shall be numbered CO-nnn.

On all forms, the numbering shall be determined by the original CR-nnn.

### Annexes

- 4.1 Request for Change Proposal Form
- 4.2 Change Estimate Proposal Form
- 4.3 Estimate Acceptance Form
- 4.4 Change Proposal Form
- 4.5 Change Order Form
- 4.6 Application for Change Proposal Form

## 4.1 Request for Change Proposal Form

(Purchaser's Letterhead)

Date: [ *insert: date* ]

Loan/Credit Number: [ *insert: loan or credit number from RFB* ]

RFB: [ *insert: title and number of RFB* ]

Contract: [ *insert: name of System or Subsystem or number of Contract* ]

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

Attention: [ *insert: name and title* ]

Dear Sir or Madam:

With reference to the above-referenced Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within [ *insert: number* ] days of the date of this letter.

1. Title of Change: [ *insert: title* ]
2. Request for Change No./Rev.: [ *insert: number* ]
3. Originator of Change: [ *select Purchaser / Supplier (by Application for Change Proposal), and add: name of originator* ]
4. Brief Description of Change: [ *insert: description* ]
5. System (or Subsystem or major component affected by requested Change): [ *insert: description* ]
6. Technical documents and/or drawings for the request of Change:
 

Document or Drawing No.	Description
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7. Detailed conditions or special requirements of the requested Change: [ *insert: description* ]
8. Procedures to be followed:
  - (a) Your Change Proposal will have to show what effect the requested Change will have on the Contract Price.
  - (b) Your Change Proposal shall explain the time it will take to complete the requested Change and the impact, if any, it will have on the date when Operational Acceptance of the entire System agreed in the Contract.

- (c) If you believe implementation of the requested Change will have a negative impact on the quality, operability, or integrity of the System, please provide a detailed explanation, including other approaches that might achieve the same impact as the requested Change.
  - (d) You should also indicate what impact the Change will have on the number and mix of staff needed by the Supplier to perform the Contract.
  - (e) You shall not proceed with the execution of work related to the requested Change until we have accepted and confirmed the impact it will have on the Contract Price and the Implementation Schedule in writing.
9. As next step, please respond using the Change Estimate Proposal form, indicating how much it will cost you to prepare a concrete Change Proposal that will describe the proposed approach for implementing the Change, all its elements, and will also address the points in paragraph 8 above pursuant to GCC Clause 39.2.1. Your Change Estimate Proposal should contain a first approximation of the proposed approach, and implications for schedule and cost, of the Change.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [ state: ***“Project Manager”*** or specify a higher level authority in the Purchaser’s organization ]

## 4.2 Change Estimate Proposal Form

(Supplier's Letterhead)

Date: [ insert: **date** ]

Loan/Credit Number: [ insert: **loan or credit number from RFB** ]

RFB: [ insert: **title and number of RFB** ]

Contract: [ insert: **name of System or Subsystem and number of Contract** ]

To: [ insert: **name of Purchaser and address** ]

Attention: [ insert: **name and title** ]

Dear Sir or Madam:

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost of preparing the below-referenced Change in accordance with GCC Clause 39.2.1 of the Contract. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GCC Clause 39.2.2, is required before we proceed to prepare the actual Change Proposal including a detailed estimate of the cost of implementing the Change itself.

1. Title of Change: [ insert: **title** ]
2. Request for Change No./Rev.: [ insert: **number** ]
3. Brief Description of Change (including proposed implementation approach): [ insert: **description** ]
4. Schedule Impact of Change (initial estimate): [ insert: **description** ]
5. Initial Cost Estimate for Implementing the Change: [insert: **initial cost estimate**]
6. Cost for Preparation of Change Proposal: [ insert: **cost in the currencies of the Contract** ], as detailed below in the breakdown of prices, rates, and quantities.

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [ state: **"Supplier's Representative"** or specify a other higher level authority in the Supplier's organization ]

### 4.3 Estimate Acceptance Form

(Purchaser's Letterhead)

Date: [ insert: **date** ]

Loan/Credit Number: [ insert: **loan or credit number from RFB** ]

RFB: [ insert: **title and number of RFB** ]

Contract: [ insert: **name of System or Subsystem and number of Contract** ]

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

Attention: [ insert: **name and title** ]

Dear Sir or Madam:

We hereby accept your Change Estimate and agree that you should proceed with the preparation of a formal Change Proposal.

1. Title of Change: [ insert: **title** ]
2. Request for Change No./Rev.: [ insert: **request number / revision** ]
3. Change Estimate Proposal No./Rev.: [ insert: **proposal number / revision** ]
4. Estimate Acceptance No./Rev.: [ insert: **estimate number / revision** ]
5. Brief Description of Change: [ insert: **description** ]
6. Other Terms and Conditions: [ insert: **other terms and conditions** ]

In the event that we decide not to order the Change referenced above, you shall be entitled to compensation for the cost of preparing the Change Proposal up to the amount estimated for this purpose in the Change Estimate Proposal, in accordance with GCC Clause 39 of the General Conditions of Contract.

For and on behalf of the Purchaser

Signed:

Date:

in the capacity of: [ state: **"Project Manager"** or specify a higher level authority in the Purchaser's organization ]

## 4.4 Change Proposal Form

(Supplier's Letterhead)

Date: [ insert: **date** ]

Loan/Credit Number: [ insert: **loan or credit number from RFB** ]

RFB: [ insert: **title and number of RFB** ]

Contract: [ insert: **name of System or Subsystem and number of Contract** ]

To: [ insert: **name of Purchaser and address** ]

Attention: [ insert: **name and title** ]

Dear Sir or Madam:

In response to your Request for Change Proposal No. [ insert: **number** ], we hereby submit our proposal as follows:

1. Title of Change: [ insert: **name** ]
2. Change Proposal No./Rev.: [ insert: **proposal number/revision** ]
3. Originator of Change: [ select: **Purchaser / Supplier**; and add: **name** ]
4. Brief Description of Change: [ insert: **description** ]
5. Reasons for Change: [ insert: **reason** ]
6. The System Subsystem, major component, or equipment that will be affected by the requested Change: [ insert: **description** ]
7. Technical documents and/or drawings for the requested Change:
 

Document or Drawing No.	Description
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8. Estimate of the increase/decrease to the Contract Price resulting from the proposed Change: [ insert: **amount in currencies of Contract** ], as detailed below in the breakdown of prices, rates, and quantities.
 

Total lump sum cost of the Change:

Cost to prepare this Change Proposal (i.e., the amount payable if the Change is not accepted, limited as provided by GCC Clause 39.2.6):
9. Additional Time for Achieving Operational Acceptance required due to the Change: [ insert: **amount in days / weeks** ]

10. Effect on the Functional Guarantees: [ *insert: **description*** ]
11. Effect on the other terms and conditions of the Contract: [ *insert: **description*** ]
12. Validity of this Proposal: for a period of [ *insert: **number*** ] days after receipt of this Proposal by the Purchaser
13. Procedures to be followed:
  - (a) You are requested to notify us of your acceptance, comments, or rejection of this detailed Change Proposal within [ *insert: **number*** ] days from your receipt of this Proposal.
  - (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [ *state: “**Supplier’s Representative**” or specify a other higher level authority in the Supplier’s organization* ]





For and on behalf of the Supplier

Signed: \_\_\_\_\_

Date: [ insert ***date*** ]

in the capacity of: [ state “***Supplier’s Representative***” or specify a higher level authority in the *Supplier’s organization* ]

## 4.6 Application for Change Proposal Form

(Supplier's Letterhead)

Date: [ insert: **date** ]

Loan/Credit Number: [ insert: **loan or credit number from RFB** ]

RFB: [ insert: **title and number of RFB** ]

Contract: [ insert: **name of System or Subsystem and number of Contract** ]

To: [ insert: **name of Purchaser and address** ]

Attention: [ insert: **name and title** ]

Dear Sir or Madam:

We hereby propose that the below-mentioned work be treated as a Change to the System.

1. Title of Change: [ insert: **name** ]
2. Application for Change Proposal No./Rev.: [ insert: **number / revision** ] dated: [ insert: **date** ]
3. Brief Description of Change: [ insert: **description** ]
4. Reasons for Change: [ insert: **description** ]
5. Order of Magnitude Estimation: [ insert: **amount in currencies of the Contract** ]
6. Schedule Impact of Change: [ insert: **description** ]
7. Effect on Functional Guarantees, if any: [ insert: **description** ]
8. Appendix: [ insert: **titles (if any); otherwise state "none"** ]

For and on behalf of the Supplier

Signed:

Date:

in the capacity of: [ state: **"Supplier's Representative"** or specify a higher level authority in the Supplier's organization ]