



BIDDING DOCUMENTS

AUTHORIZED VENDORS FOR INSTALLATION AND MAINTENANCE OF PRODUCTION MONITORING SYSTEM IN THE PAPER AND PAPER BOARD SECTOR

(Three years from authorization)

(Two Stage Bidding Procedure)

For

**FEDERAL BOARD OF REVENUE
(FBR)**

(National Competitive Bidding)



**Revenue Division
Government of Pakistan
July, 2026**

PART-A – BIDDING PROCEDURE & REQUIREMENTS

Section I - Invitation to Bids

Section II- Instructions to Bidders (ITB)

This Section provides information to help Bidders prepare their Bids. Information is provided for the submission, opening, and evaluation of Bids and for the award of Contract. ***This Section contains provisions those are to be used without modification(s).***

Section III- Bid Data Sheet (BDS)

This Section includes provisions specific to procurement and to supplement Section-II, Instructions to Bidders. This section may be customized where option is available, in accordance with the requirements of the FBR.

Section IV - Eligible Countries

This Section contains information regarding eligible countries.

Section V - Scope of Work

This Section includes the details of specifications for the goods and ancillary services to be procured and schedule of requirements.

Section VI - Standard Forms

This Section includes the standard forms for the Bid Submission, Price Schedules, and Bid Security etc. These forms are to be completed and submitted by the Bidder as part of - Bid.

PART-B – CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section VII - General Conditions of Contract (GCC)

This Section includes the general clauses to be applied in all the contracts. ***This Section contains provisions those are to be used without modifications.***

Section VIII - Special Conditions of Contract (SCC)

This Section consists of Contract Specific general and special conditions. The FBR may customize the general conditions of the contract section, in accordance with the requirements.

Section IX - Contract Forms

This Section contains forms which, once completed, will become part of the Contract. The forms for **Performance Guarantee** will be submitted by the



successful bidder to whom Letter of Acceptance is issued, before the award of contract.

Integrity Pact

The successful bidder shall be required to furnish Integrity Pact as per the attached format.



PART-A
BIDDING PROCEDURE & REQUIREMENTS

SECTION I: INVITATION TO BIDS

Bid No. 7(1)IR/TDU/2026

A. INVITATION TO BID
[AUTHORIZED VENDORS FOR INSTALLATION AND MAINTENANCE OF
PRODUCTION MONITORING SYSTEM IN PAPER AND PAPERBOARD
SECTOR

(Three years from authorization)]

1. The Federal Board of Revenue (FBR) invites *sealed bids* from *eligible vendors, registered with PPRA on E-PADS* as vendors and with *Income Tax and Sales Tax Departments*, and included in *Active Taxpayer's List* of FBR, for the deployment of a production monitoring solution across the paper and paperboard sector in Pakistan. The vendors are required to submit *proposals for a production monitoring/counting solution* comprising one or more suitable technologies, including *PLC/SCADA or machine-controller integration, barcode/QR code/RFID-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring*, or any *other technically suitable* solution proposed by the Vendor and approved by the FBR, provided it meets both the *Technical and Proof of Concept (POC) evaluation criteria (including preferable accuracy of 99% with a minimum requirement of 99%)* defined in Section V – Scope of Work and is cost-effective.
2. Bidding documents are available on FBR/PPRA Websites i.e. <https://www.ppra.gov.pk> & <https://www.fbr.gov.pk/> and can be downloaded free of cost. Bids duly completed and in conformity with Bidding Documents must be submitted till **13th August, 2026 at 11 AM**.
3. The instant *procurement for authorized vendors* is being carried out under PPRA Ordinance, 2002 (including *Section 2(l)*) read with Public Procurement Rules, 2004. Procurement structure has been designed keeping in view *Rule 4* and other relevant provisions under PPR, 2004 *including but not limited to provisions as referred at Rule 15, Rule 21, Rule 29* and the rules connected thereto. The translation of the relevant provisions of PPR, 2004 into procurement design/structure has been made part of the instant bidding document.
4. The procurement shall be carried out in accordance with PPRA's Two-Stage Bidding Procedure:
 - a. **Stage 1:** Bidders shall submit a technical proposal, including the indicative price per installation point and breakdown of price per component, which will be evaluated based on the Technical Evaluation Criteria defined in Section V. Successful bidders will be required to conduct a POC, which will be evaluated based on POC Evaluation Criteria defined in Section V. Afterwards, *FBR will conduct a Bidders Conference* to discuss all *solutions and their feasibility of implementation*. Post the Bidders Conference, FBR will, at its discretion, finalize a specific production counting solution for implementation. A revised RFP with FBR's finalized solution will be *circulated with all bidders after the Bidders Conference*.
 - b. **Stage 2:** All eligible bidders will be required to submit a technical proposal, including the firm and binding price per installation point and breakdown of price

per component, and *conduct a POC test for the solution finalized by FBR. Upon evaluation, FBR will shortlist successful bidders and issue authorization.*

For the avoidance of doubt, the price per installation point and the price breakdown submitted with the technical proposal at Stage 1 are indicative and non-binding, and are required only to inform evaluation and planning; Stage-1 technical scoring is based on experience and robustness and does not take price into account. The price per installation point and price breakdown submitted with the revised technical proposal at Stage 2, against FBR's finalized solution, shall be firm and binding and shall form the basis for authorization and the resulting contract.

5. A pre-bid meeting and Bidders Conference will take place as per the following details:
 - a. Pre-bid meeting, to clarify vendor queries, will take place after bid submission on 31st July, 2026 at 11:00 AM 3rd Floor, FBR House, Constitution Avenue, G-5, Islamabad.
The bidders who wish to join the meeting virtually can join by using the following link
[<https://zoom.us/j/93250297709?pwd=QLOe36MlwRTGHB9sahRbMmpDQfu5AW.1> Meeting ID: 932 5029 7709 Passcode: 256415]
 - b. Bidders Conference, to discuss technical details of all proposed solutions with all bidders, will take place after bid submission on 19th August, 2026 at 11:30 AM, 3rd Floor, FBR House, Constitution Avenue, G-5, Islamabad. The conference will be conducted before the finalization of solution by FBR.
6. The original bid along with 2 copies & one in soft form properly filled in, and enclosed in sealed envelopes must be delivered to the address, **Room 510, 5th Floor, FBR House, Constitution Avenue, G-5, Islamabad**, at or before 13th August, 2026 the bids shall be opened promptly thereafter in public and in the presence of bidders' representatives who choose to attend in the opening in the Room 358, 3rd Floor, FBR House, Constitution Avenue, G-5, Islamabad.
7. All bids must be accompanied by a Bid Security amounting *PKR. 1,000,000 (One million Only)*, or freely convertible currencies in case of foreign Bidders in an acceptable form
8. Interested eligible bidders may request for further information/clarification by email at secretary.admin@fbr.gov.pk during official business days and timings, within Seven (07) days before the proposal submission deadline.
9. FBR may reject all bids at any time prior to the acceptance of a bid by invoking rule 33 of Public Procurement Rule (PPR), 2004.

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SECTION II: INSTRUCTION TO BIDDERS (ITBs)

A. INTRODUCTION

1. Scope of Bid	1.1	The FBR (PA), as indicated in the <i>Bid Data Sheet (BDS)</i> invites Bids <i>for the Approval of Vendors</i> to supply, install, integrate, commission, operate, maintain, and support a <i>Digital Production Monitoring System (DPMS)</i> for <i>paper and paperboard</i> manufacturing facilities. The proposed solution may comprise one or more technologies, including PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, barcode/QR code/Rfid-based traceability, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR, for monitoring, measuring, verifying, recording, and reporting production, inventory movements, and dispatches.
	1.2	Unless otherwise stated throughout this document definitions and interpretations shall be as prescribed in the <i>General Conditions of the Contract (GCC)</i> .
2. Source of Funds	2.1	Source of funds for launching this intervention has been stated in <i>Clause 2 of Section III - Bid Data Sheet</i>
3. Eligible Bidders	3.1	The Invitation to Bids is open to i.e. <i>companies, consortium or joint venture where at least one member is the company</i> and registered with relevant Registration Authorities and Tax Departments/ Authorities (Income Tax, Sales Tax etc.), except as provided hereinafter. <i>Public sector or Government-owned enterprises</i> may participate only if they are duly/legally authorized in this regard by the respective/relevant competent forum/authority. In the case of a joint venture or consortium all members shall be jointly and severally liable for the execution of the responsibilities in accordance with the terms and conditions of the bid. The joint venture, consortium, or association shall nominate a Lead Member as nominated in the BDS, who shall have the authority to conduct all business for and on behalf of any and all the members of the joint venture or consortium during the Bidding process, and in case of award of contract, during the execution of responsibilities during authorization period.

	3.2	The <i>appointment of Lead Member in the joint venture</i> or consortium shall be confirmed by submission of a <i>valid Power of Attorney</i> to the FBR.
	3.3	<i>Verifiable copy of the agreement that forms a joint venture</i> or consortium shall be required to be submitted as part of the Bid.
	3.4	Any bid submitted by the joint venture, consortium or association shall indicate the part of proposed contract to be performed by each party and <i>each party shall be evaluated</i> (or post qualified if required) <i>with respect to its contribution only</i> , and the responsibilities of each party shall not be substantially altered without prior written approval of the FBR and in line with any instructions issued by the Authority.
	3.5	The invitation for Bids is open to all prospective suppliers, manufacturers or authorized agents/dealers/distributors subject to any provisions of incorporation or licensing/regulatory requirements issued by the respective national/provincial incorporating agency or statutory body established for that particular trade or business.
	3.6	<i>Foreign Bidders must be locally registered with the appropriate national incorporating body or the statutory body</i> , before participating in the national/international competitive tendering with the exception of such procurements made by the foreign missions of Pakistan. For such purpose the bidder must have to initiate the registration process before the bid submission and the necessary evidence shall be submitted to the FBR along with their bid, however, the final award will be subject to the complete registration process.
	3.7	A Bidder shall not have a conflict of interest. All Bidders found to have a <i>conflict of interest shall be disqualified</i> . A Bidders may be considered to have a <i>conflict of interest</i> with one or more parties in this Bidding process, if they: a) <i>are associated or have been associated in the past</i>, directly or indirectly with a firm or any of its affiliates which have been engaged by the FBR to provide consulting services for the preparation of the design, specifications and other documents to be used for the procurement of the information systems to be procured under this Invitation for Bids. b) have controlling shareholders in common; or c) receive or have received any direct or indirect subsidy from any of them; or

		d) have the same legal representative for purposes of this Bid; or e) have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the Bid of another Bidder, or influence the decisions of the FBR regarding this Bidding process; or f) Submit more than one Bid in this Bidding process.
	3.8	A Bidder may be ineligible if – (a) he is declared bankrupt or, in the case of company or firm, insolvent; (b) payments in favor of the Bidder is suspended in accordance with the judgment of a court of law other than a judgment declaring bankruptcy and resulting (in accordance with the national laws) in the total or partial loss of the right to administer and dispose of its property; (c) legal proceedings are instituted against such Bidder involving an order suspending payments and which may result, in accordance with the national laws, in a declaration of bankruptcy or in any other situation entailing the total or partial loss of the right to administer and dispose of the property; (d) the Bidder is convicted, by a final judgment, of any offence involving professional conduct; (e) the Bidder is blacklisted and hence debarred due to involvement in corrupt and fraudulent practices, or performance failure or due to breach of bid securing declaration. (f) The bidder is blacklisted or debarred by a foreign country, international organization, or other foreign institutions for the period defined by them.
	3.9	Bidders shall provide to the FBR evidence of their eligibility, proof of compliance with the necessary legal requirements to carry out the contract effectively.
	3.10	Bidders shall provide such evidence of their continued eligibility to the satisfaction of the FBR, as the FBR shall reasonably request.
4. Eligible Information Systems	4.1	For the purposes of these Bidding Documents, the Information System means all: a) the required information technologies, including all information processing and communications-related

		hardware, software, supplies, and consumable items that the bidder is required to supply and install under the Contract, plus all associated documentation, and all other materials and goods to be supplied, installed, integrated, and made operational (collectively called “the Goods” in some clauses of the ITB); 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 successful Bidder and as specified in the Contract.
	4.2	All Information System made up of goods and services to be supplied shall have their origin in eligible source countries. For purpose of this Bid, ineligible countries are stated in the section IV titled as “Eligible Countries”.
	4.3	For purposes of this Clause, “origin” means the place where the goods and services making 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 or major assembly or integration of components, a commercially recognized product result that is substantially different in basic characteristic or in purpose or utility from its component.
	4.4	The nationality of the bidder that supplies and install the Information System shall not determine the origin of the goods.
	4.5	To establish the eligibility of the Goods and Services making Information System, Bidders shall fill the country-of-origin declarations included in the Form of Bid.
	4.6	If so required in the BDS , the Bidder shall demonstrate that it has been duly authorized for the supply and installation of Information System in Pakistan (or in respective country in case of procurement by the Pakistani Missions abroad), the Information System indicated in its Bid.
5. One Bid per Bidder	5.1	A bidder shall submit only one Bid, in the same bidding process, either individually as a Bidder or as a member in a joint venture or any similar arrangement.
	5.2	No bidder can be a sub-contractor while submitting a Bid individually or as a member of a joint venture in the same Bidding process.

	5.3	A person or a firm cannot be a sub-contractor with more than one bidder in the same bidding process.
6. Cost of Bidding	6.1	The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the FBR shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

B. BIDDING DOCUMENTS

7. Contents of Bidding Documents	7.1	The Contents of the Bidding Documents listed below should be read in conjunction with any addenda issued in accordance with ITB 9.2 include: Section I -Invitation to Bids Section II Instructions to Bidders (ITBs) Section III Bid Data Sheet (BDS) Section IV Eligible Countries Section V Scope of Work Section VI Standard Forms Section VII General Conditions of Contract (GCC) Section VIII Special Conditions of Contract (SCC) Section IX Contract Forms
	7.2	The number of copies to be completed and returned with the Bid is specified in the BDS .
	7.4	The FBR is not responsible for the completeness of the Bidding Documents and their addenda, if they were not obtained directly from the FBR or the signed pdf version from downloaded from the website of the FBR. However, FBR shall place both the pdf and same editable version to facilitate the bidder for filling the forms.
	7.5	The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all the information required in the Bidding Documents will be at the Bidder's risk and may result in the rejection of his Bid.
8. Clarification of Bidding Documents, Pre-Bid Meeting and Site Visit	8.1	A prospective Bidder requiring any clarification of the Bidding Documents may notify the FBR in writing or in electronic form that provides record of the content of communication at the FBR's address indicated in the BDS .
	8.2	The FBR will within three (3) working days after receiving the request for clarification, respond in writing or in electronic form to any request for clarification provided that such request is

		received not later than three (03) days prior to the deadline for the submission of Bids as prescribed in ITB 21.1 .
	8.3	Copies of the FBR's response will be forwarded to all identified Prospective Bidders through an identified source of communication, including a description of the inquiry, but without identifying its source. In case of downloading of the Bidding Documents from the website of PA, the response of all such queries will also be available on the same link available at the website.
	8.4	Should the FBR deem it necessary to amend the Bidding Documents as a result of a clarification, it shall do so following the procedure under ITB 9 .
	8.5	If indicated in the BDS , the Bidder's designated representative is invited at the Bidder's cost to attend a pre-Bid meeting at the place, date and time mentioned in the BDS . During this pre-Bid meeting, prospective Bidders may request clarification of the schedule of requirement, the Evaluation Criteria or any other aspects of the Bidding Documents.
	8.6	Minutes of the pre-Bid meeting, if applicable, including the text of the questions asked by Bidders, including those during the meeting (without identifying the source) and the responses given, together with any responses prepared after the meeting will be transmitted promptly to all prospective Bidders who have obtained the Bidding Documents. Any modification to the Bidding Documents that may become necessary as a result of the pre-Bid meeting shall be made by the FBR exclusively through the use of an Addendum pursuant to ITB 9 . Non-attendance at the pre-Bid meeting will not be a cause for disqualification of a Bidder.
	8.7	The Bidder may wish to visit and examine the site or sites of the Information System and obtain for itself, at its own responsibility and risk, all information that may be necessary for preparing the bid and entering the Contract. The costs of visiting the site or sites shall be at the Bidder's own expense.
	8.8	The FBR will arrange for the Bidder and any of its personnel or agents to gain access to the relevant site or sites, provided that the Bidder gives the FBR adequate notice of a proposed visit of at least seven (07) days. Alternatively, the FBR may organize a site visit or visits concurrently with the pre-bid meeting, as specified in the BDS for ITB Clause 8.5 . Failure of a Bidder to make a site visit will not be a cause for its disqualification

	8.9	No site visits shall be arranged or scheduled after the deadline for the submission of the Bids and prior to the award of Contract.
9. Amendment of Bidding Documents	9.1	Before the deadline for submission of Bids, the FBR for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder or pre-bid meeting may modify the Bidding Documents by issuing addenda.
	9.2	Any addendum issued including the notice of any extension of the deadline shall be part of the Bidding Documents pursuant to ITB 7.1 and shall be communicated in writing or in any identified electronic form that provide record of the content of communication to all the bidders who have obtained the Bidding Documents from the FBR. The FBR shall promptly publish the Addendum at the FBR's web page identified in the BDS: Provided that the bidder who had either already submitted their bid or handed over the bid to the courier prior to the issuance of any such addendum shall have the right to withdraw his already filed bid and submit the revised bid prior to the original or extended bid submission deadline.
	9.3	To give prospective Bidders reasonable time in which to take an addendum/corrigendum into account in preparing their Bids, the FBR may, at its discretion, extend the deadline for the submission of Bids: Provided that the FBR shall extend the deadline for submission of Bid, if such an addendum is issued within last three (03) days of the Bid submission deadline.

C. PREPARATION OF BIDS

10. Language of Bid	10.1	The Bid prepared by the Bidder, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the FBR shall be written in the English language unless otherwise specified in the BDS . Supporting documents and printed literature furnished by the Bidder may be in another language provided they are accompanied by an accurate translation of the relevant pages in the English language unless specified in the BDS , in which case, for purposes of interpretation of the Bidder, the translation shall govern.
11. Documents Constituting the Bid	11.1	The Bid prepared by the Bidder shall constitute the following components: - i) Technical proposal with solution details and the indicative price per installation point and breakdown of price per component;

		ii) Details of the Sample(s) where applicable and requested in the BDS. iii) Documentary evidence established in accordance with ITB 13 that the Bidder is eligible and/or qualified for the subject bidding process; iv) Documentary evidence established in accordance with ITB 13.3(a) that the Bidder has been authorized by the manufacturer to deliver the goods and services making Information System into Pakistan, where required and where the bidder is not the manufacturer of those goods and service making Information System; v) Documentary evidence established in accordance with ITB 12 that the goods and services making Information System to be supplied by the Bidder are eligible, and conform to the Bidding Documents; vi) Bid security or Bid Securing Declaration furnished in accordance with ITB 16; vii) Duly Notarized Power of Attorney authorizing the signatory of the Bidder to submit the bid; and viii) Any other document required in the BDS.
12. Documents Establishing Eligibility of the Information System and Conformity to Bidding Documents	12.1	Pursuant to ITB 11 , the Bidder shall furnish, as part of its Bid, all those documents establishing the eligibility in conformity to the terms and conditions specified in the Bidding Documents for all goods and services related to the information system which the Bidder proposes to deliver.
	12.2	The documentary evidence of conformity of the goods and services related to the Information Systems to the Bidding Documents may be in the form of literature, drawings, and data, and shall consist of:

		a) a detailed description of the essential technical specifications and performance characteristics of the Goods; b) an item-by-item commentary on the FBR's Technical Specifications demonstrating substantial responsiveness of the Goods and Services to those specifications, or a statement of deviations and exceptions to the provisions of the Scope of Work c) any other procurement specific documentation requirement as stated in the BDS.
	12.3	For purposes of the commentary to be furnished pursuant to ITB 12.2(c) above, the Bidder shall note that standards for workmanship, material, and equipment, as well as references to brand names or catalogue numbers designated by the FBR in its Scope of Work, are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names, and/or catalogue numbers in its Bid, provided that it demonstrates to the FBR's satisfaction that the substitutions ensure substantial equivalence to those designated in the Scope of Work
	12.4	The required documents and other accompanying documents must be in English. In case any other language than English is used the pertinent translation into English shall be attached to the original version.
13. Documents Establishing Eligibility and Qualification of the Bidder	13.1	Pursuant to ITB 11 , the Bidder shall furnish, as part of its Bid, all those documents establishing the Bidder's eligibility to participate in the bidding process and/or its qualification to perform the contract if its Bid is accepted.
	13.2	The documentary evidence of the Bidder's eligibility to Bid shall establish to the satisfaction of the FBR that the Bidder, at the time of submission of its bid, is from an eligible country as defined in Section IV titled as "Eligible Countries".
	13.3	The documentary evidence of the Bidder's qualifications to perform the obligations as an Authorized Vendor if its Bid is accepted shall establish to the satisfaction of FBR that: a) in the case of a Bidder offering to supply and install Information System under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been

		duly authorized by the Manufacturer or producer to supply and install the information system in Pakistan; b) the Bidder has the financial, technical, and supply/production capability necessary to perform the obligations as an Authorized Vendor; c) in the case of a Bidder not doing business within Pakistan, the Bidder is or will be (if awarded the contract) represented by an Agent in Pakistan equipped, and able to carry out the Bidder's maintenance, repair, and spare parts-stocking obligations prescribed in the Conditions of Contract and/or Scope of Work d) that the Bidder meets the qualification criteria listed in the Bid Data Sheet.
14. Form of Bid	14.1	The Bidder shall fill the Form of Bid furnished in the Bidding Documents. The Bid Form must be completed without any alterations to its format and no substitute shall be accepted.
15. Bid Validity Period	15.1	Bids shall remain valid for the period specified in the BDS after the Bid submission deadline prescribed by the FBR. A Bid valid for a shorter period shall be rejected by the FBR as non-responsive. The period of Bid validity will be determined from the complementary bid securing instrument i.e., the expiry period of bid security or bid securing declaration.
	15.2	Under exceptional circumstances, prior to the expiration of the initial Bid validity period, the FBR may request the Bidders' consent to an extension of the period of validity of their Bids only once, for the period not more than the period of initial bid validity. The request and the Bidders responses shall be made in writing or in electronic forms that provide record of the content of communication. The Bid Security provided under ITB 16 shall also be suitably extended. A Bidder may refuse the request without forfeiting its Bid security or causing to be executed its Bid Securing Declaration. A Bidder agreeing to the request will not be required nor permitted to modify its Bid but will be required to extend the validity of its Bid Security or Bid Securing Declaration for the period of the extension, and in compliance with ITB 16 in all respects.
16. Bid Security or Bid Securing Declaration	16.1	Pursuant to ITB 11 , unless otherwise specified in the BDS , the Bidder shall furnish as part of its Bid, a Bid Security in form of fixed amount specified in BDS and Invitation to Bid in the currency specified in the BDS in the format provided in Section VI (Standard Forms) .

	16.2	The Bid Security or Bid Securing Declaration is required to protect the FBR against the risk of Bidder's conduct which would warrant the security's forfeiture, pursuant to ITB 16.9 .
	16.3	The Bid Security shall be denominated in the local currency or in another freely convertible currency, and it shall be in the form specified in the BDS which shall be in any of the following: a) a bank guarantee, an irrevocable letter of credit issued by a Scheduled bank in the form provided in the Bidding Documents or another form acceptable to the FBR and valid for twenty-eight (28) days beyond the end of the validity of the Bid. This shall also apply if the period for Bid Validity is extended. In either case, the form must include the complete name of the Bidder; b) a cashier's or certified cheque; or c) another security if indicated in the BDS
	16.4	The Bid Security or Bid Securing Declaration shall be in accordance with the Form of the Bid Security or Bid Securing Declaration included in Section VI (Standard Forms) or another form approved by the FBR prior to the Bid submission.
	16.5	The Bid Security shall be payable promptly upon written demand by the FBR in case any of the conditions listed in ITB 16.9 are invoked.
	16.6	Any Bid not accompanied by a Bid Security or Bid Securing Declaration in accordance with ITB 16.1 or 16.3 shall be rejected by the FBR as non-responsive, pursuant to ITB 29 .
	16.7	Unsuccessful Bidders' Bid Security will be discharged or returned as promptly as possible, however in no case later than thirty (30) days after the expiration of the period of Bid Validity prescribed by the FBR pursuant to ITB 15. The FBR shall make no claim to the amount of the Bid Security, and shall promptly return the Bid Security document, after whichever of the following that occurs earliest: (a) the expiry of the Bid Security; (b) the entry into force of a procurement contract and the provision of a performance security (or guarantee), for the performance of the contract if such a security (or guarantee), is required by the Biding documents;

		(c) the rejection by the FBR of all Bids; (d) the withdrawal of the Bid prior to the deadline for the submission of Bids, unless the Bidding documents stipulate that no such withdrawal is permitted.
	16.8	The successful Bidder's Bid Security will be discharged upon the Bidder signing the contract pursuant to ITB 37 , or furnishing the performance guarantee, pursuant to ITB 38 .
	16.9	The Bid Security may be forfeited or the Bid Securing Declaration executed: a) if a Bidder: i) withdraws its Bid during the period of Bid Validity as specified by the FBR, and referred by the bidder on the Form of Bid except as provided for in ITB 15.2; or b) in the case of a successful Bidder, if the Bidder fails: i) to sign the contract in accordance with ITB 39; or ii) to furnish performance guarantee in accordance with ITB 40.
17. Alternative Bids by Bidders	17.1	Bidders shall submit offers that comply with the requirements of the Bidding Documents, including the basic Bidder's technical design as indicated in the specifications and Scope of Work. Alternatives will not be considered, unless specifically allowed for in the BDS . If so allowed, ITB 17.2 shall prevail.
	17.2	When alternative schedule for supply and installation of Information System is explicitly invited, a statement of that effect will be included in the BDS as will the method for evaluating different schedule for Information System.
	17.3	If so allowed in the BDS , Bidders wishing to offer technical alternatives to the requirements of the Bidding Documents must also submit a Bid that complies with the requirements of the Bidding Documents, including the basic technical design as indicated in the specifications. In addition to submitting the basic Bid, the Bidder shall provide all information necessary for a complete evaluation of the alternative by the FBR, including technical specifications and other relevant details.

18. Withdrawal, Substitution, and Modification of Bids	18.1	Before bid submission deadline, any 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 the corresponding substitution or modification must accompany the respective written notice.
	18.2	Bids requested to be withdrawn in accordance with ITB 18.1 shall be returned unopened to the Bidders.
19. Format and Signing of Bid	19.1	The Bidder shall prepare an original and the number of copies of the Bid as indicated in the BDS , clearly marking each “ORIGINAL” and “COPY,” as appropriate. In the event of any discrepancy between them, the original shall prevail: Provided that except in Single Stage One Envelope Procedure, the Bid shall include only the copies of technical proposal.
	19.2	The original and the copy or copies of the Bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons 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, except for un-amended printed literature, shall be initialed by the person or persons signing the Bid.
	19.3	Any interlineations, erasures, or overwriting shall be valid only if they are signed by the person or persons signing the Bidder.

D. SUBMISSION OF BIDS

20. Sealing and Marking of Bids	20.1	PPRA’s Two-Stage Procedure should be followed under the PPRA Rules 2004 and its corresponding Regulations First Stage: I. The bidders shall first submit, according to the required specifications, a technical proposal including the indicative price per installation point and breakdown of price per component. II. The technical proposal shall be evaluated in accordance with the specified evaluation criteria and may be discussed with the bidders regarding any deficiencies and unsatisfactory technical features; III. After such discussions, all the bidders shall be permitted to revise their respective technical proposals to meet the requirements of the procuring agency;
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		IV. The procuring agency may revise, delete, modify, or add any aspect of the technical requirements or evaluation criteria, or it may add new requirements or criteria not inconsistent with these rules: <i>Provided that such revisions, deletions, modifications or additions are communicated to all the bidders equally at the time of invitation to submit final bids, and that sufficient time is allowed to the bidders to prepare their revised bids:</i> <i>Provided further that such allowance of time shall not be less than fifteen days in the case of national competitive bidding and thirty days in the case of international competitive bidding;</i> Second Stage: V. Eligible bidders who are willing to conform their bids to the revised technical requirements of the procuring agency shall be invited to submit a revised technical proposal, including the firm and binding price per installation point and breakdown of price per component; VI. The revised technical proposal shall be opened on the respective specified date and venue announced and communicated to the bidders in advance; and VII. The revised technical proposal shall be evaluated in the manner prescribed above. The vendors with proposals qualifying the technical evaluation and POC criteria will be issued authorization for implementing the solution: VIII. Provided that in setting the date for the submission of the revised technical proposal, including the firm and binding price per installation point and breakdown of price per component, the procuring agency shall allow sufficient time to the bidders to incorporate the agreed-upon changes in the technical proposal accordingly. The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed/identified as given in Sub- Clause 21.2.
	20.2	The inner and outer envelopes shall: a) be addressed to the FBR at the address provided in the Bidding Data; b) bear the name and identification number of the contract as defined in the Bidding Data; and provide a warning not to

		open before the time and date for bid opening, as specified in the Bidding Data and pursuant to ITB 21.1. c) In addition to the identification required in Sub- Clause 19.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared “late” pursuant to ITB 22.
	20.3	If all envelopes are not sealed and marked as required by ITB 20.2 and ITB 20.3 or incorrectly marked, the FBR will assume no responsibility for the misplacement or premature opening of the Bid.
21. Deadline for Submission of Bids	21.1	Bids shall be received by the FBR no later than the date and time specified in the BDS .
	21.2	The FBR may, in exceptional circumstances and at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB 9 , in which case all rights and obligations of the FBR and Bidders previously subject to the deadline will thereafter be subject to the new deadline.
22. Late Bids	22.1	The FBR shall not consider for evaluation any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 21 .
	22.2	Any Bid received by the FBR after the deadline for submission of Bids shall be declared late, recorded, rejected and returned unopened to the Bidder.
23. Withdrawal, Substitution, and Modification of Bids	23.1	A Bidder may withdraw, substitute, or modify its bid after submission, provided that written notice of the withdrawal, substitution, or modification is received by the FBR prior to the deadline prescribed for bid submission. All notices must be duly signed by an authorized representative and shall include a copy of the authorization (the power of attorney).
	23.2	The Bidder modification, substitution, or withdrawal notice shall be prepared, sealed, marked, and dispatched in accordance with the provisions of ITB 19 and ITB 20, with the outer and inner envelopes additionally marked “MODIFICATION”, “SUBSTITUTION” OR “WITHDRAWAL” as appropriate. The notice may also be sent by electronic, telex and facsimile, but followed by a signed confirmation copy, postmarked no later than the deadline for submission of Bids.
	23.3	Bids may only be modified by withdrawal of the original Bids and submission of a replacement Bid in accordance with sub-Clause 23.1. Modifications submitted in any other way shall not be taken into account in the evaluation of Bids.

	23.4	No Bid may be withdrawn, replaced or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Form of Bid. Withdrawal of a Bid during this interval shall result in the Bidders forfeiture of its Bid Security or execution of the Bid Securing Declaration.
	23.5	Revised bid may be submitted after the withdrawal of the original bid in accordance with the provisions referred in ITB 23.

E. OPENING AND EVALUATION OF BIDS

24. Opening of Bids	24.1	The FBR will open all Bids, in public, in the presence of Bidders' or their representatives who choose to attend, and other parties with a legitimate interest in the Bid proceedings at the place, on the date and at the time specified in the BDS . The Bidders' representatives present shall sign a register as proof of their attendance.
	24.2	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.
	24.3	Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Bid shall be exchanged for the corresponding Original Bid being substituted, which is to be returned to the Bidder unopened. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
	24.4	Next, outer envelopes marked "MODIFICATION" shall be opened. No Proposal shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of the Bids. Any Modification shall be read out along with the Original Bid
	24.5	Other envelopes holding the Bids shall be opened one at a time, in case of Single Stage One Envelope Procedure, the Bidders names, and of any alternative Bid (if alternatives have been requested or permitted), any discounts, the presence or absence of Bid Security, Bid Securing Declaration and such other details as the FBR may consider appropriate, will be announced by the Procurement Evaluation Committee.

	24.6	The envelopes holding the Proposals shall be opened one at a time, and the following read out and recorded: (a) the name of the Bidder; (b) whether there is a modification or substitution; (c) the presence of a Bid Security, if required; and (d) Any other details as the FBR may consider appropriate.
	24.7	Bids not opened and not read out at the Bid opening shall not be considered further for evaluation, irrespective of the circumstances. In particular, any discount offered by a Bidder which is not read out at Bid opening shall not be considered further.
	24.8	Bidders are advised to send in a representative with the knowledge of the content of the Bid who shall verify the information read out from the submitted documents. Failure to send a representative or to point out any un-read information by the sent Bidder's representative shall indemnify the FBR against any claim or failure to read out the correct information contained in the Bidder's Bid.
	24.9	No Bid will be rejected at the time of Bid opening except for late Bids which will be returned unopened to the Bidder, pursuant to ITB 22 .
	24.10	The FBR shall prepare minutes of the Bid opening. The record of the Bid opening shall include, as a minimum: the name of the Bidder and whether or not there is a withdrawal, substitution or modification, the Bid price if applicable, including any discounts and alternative offers and the presence or absence of a Bid Security or Bid Securing Declaration.
	24.11	The Bidders' representatives who are present shall be requested to sign on the attendance sheet. The omission of a Bidder's signature on the record shall not invalidate the contents and affect the record. A copy of the record shall be distributed to all the Bidders.
	24.12	A copy of the minutes of the Bid opening shall be furnished to individual Bidders upon request.
	24.13	
25. Confidentiality	25.1	Information relating to the examination, clarification, evaluation and comparison of Bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process until the time of the announcement of the respective evaluation report.
	25.2	Any effort by a Bidder to influence the FBR processing of Bids or award decisions may result in the rejection of its Bid.
	25.3	Notwithstanding ITB 25.2 from the time of Bid opening to the time of contract award, if any Bidder wishes to contact the FBR on any matter related to the Bidding process, it should do so in writing or

		in electronic forms that provides record of the content of communication.
26. Clarification of Bids	26.1	To assist in the examination, evaluation and comparison of Bids of the Bidders, the FBR may, ask any Bidder for a clarification. Any clarification submitted by a Bidder that is not in response to a request by the FBR shall not be considered.
	26.2	The request for clarification and the response shall be in writing or in electronic forms that provide record of the content of communication. In case Single Stage One Envelope Procedure, only the correction of arithmetic errors discovered by the FBR in the evaluation of Bids should be sought in accordance with ITB 31 .
	26.3	The alteration or modification in THE BID which in any affect the following parameters will be considered as a change in the substance of a bid: a) evaluation & qualification criteria; b) required scope of work or specifications; c) all securities requirements; d) tax requirements; e) terms and conditions of bidding documents. f) change in the ranking of the bidder
	26.4	From the time of Bid opening to the time of authorization if any Bidder wishes to contact the FBR on any matter related to the Bid it should do so in writing or in electronic forms that provide record of the content of communication.
27. Preliminary Examination of Bids	27.1	Prior to the detailed evaluation of Bids, the FBR will determine whether each Bid: a) meets the eligibility criteria defined in ITB 3 and ITB 4; b) has been prepared as per the format and contents defined by the FBR in the Bidding Documents; c) has been properly signed; d) is accompanied by the required securities; and e) is substantially responsive to the requirements of the Bidding Documents. The FBR's determination of a Bid's responsiveness will be based on the contents of the Bid itself.
	27.2	A substantially responsive Bid is one which conforms to all the terms, conditions, and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one that: -

		a) affects in any substantial way the scope, quality, or performance of the Services; b) limits in any substantial way, inconsistent with the Bidding Documents, the FBR's rights or the Bidders obligations under the Contract; or c) if rectified, would affect unfairly the competitive position of other Bidders presenting substantially responsive Bids.
	27.3	The FBR will confirm that the documents and information specified under ITB 11, 12 and 13 have been provided in the Bid. If any of these documents or information is missing or is not provided in accordance with the Instructions to Bidders, the Bid shall be rejected.
	27.4	The FBR may waive off any minor informality, nonconformity, or irregularity in a Bid which does not constitute a material deviation, provided such waiver does not prejudice or affect the relative ranking of any Bidder. Explanation: <i>A minor informality, non-conformity or irregularity is one that is merely a matter of form and not of substance. It also pertains to some immaterial defect in a Bid or variation of a bid from the exact requirements of the invitation that can be corrected or waived without being prejudicial to other bidders. The defect or variation is immaterial when the effect on quantity, quality, or delivery is negligible when contrasted with the total cost or scope of the supplies or services being acquired. The FBR either shall give the bidder an opportunity to cure any deficiency resulting from a minor informality or irregularity in a bid or waive the deficiency, whichever is advantageous to the FBR. Examples of minor informalities or irregularities include failure of a bidder to –</i> (a) <i>Submit the number of copies of signed bids required by the invitation;</i> (b) <i>Furnish required information concerning the number of its employees;</i> (c) <i>the firm submitting a bid has formally adopted or authorized, before the date set for opening of bids, the execution of documents by typewritten, printed, or stamped signature and submits evidence of such authorization and the bid carries such a signature.</i>
	27.5	Provided that a Technical Bid is substantially responsive, the FBR may request the Bidder to submit the necessary information or

		documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any such aspect of the technical Proposal linked with the ranking of the bidders. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
	27.6	If a Bid is not substantially responsive, it will be rejected by the FBR and may not subsequently be evaluated for complete technical responsiveness.
28. Examination of Terms and Conditions; Technical Evaluation	28.1	The FBR shall examine the Bid to confirm that all terms and conditions specified in the GCC and the SCC have been accepted by the Bidder without any material deviation or reservation.
	28.2	The FBR shall evaluate the technical aspects of the Bid submitted in accordance with ITB 20 , to confirm that all requirements specified in Section V – Scope of Work have been met without material deviation or reservation.
	28.3	If after the examination of the terms and conditions and the technical evaluation, the FBR determines that the Bid is not substantially responsive in accordance with ITB 27 , it shall reject the Bid.
29. Evaluation of Bids	29.1	The FBR shall evaluate only the Bids determined to be substantially responsive, pursuant to ITB 27 .
	29.2	In evaluating the Technical Proposal of each Bid, the FBR shall use the criteria and methodologies listed in the BDS and in Scope of Work. No other evaluation criteria or methodologies shall be permitted.
	29.3	In evaluating the Bidders, the evaluation committee will, in addition to the technical specifications, take account of one or more of the following factors as specified in the BDS a) The availability (in Pakistan) of spare parts and after-sales services for the equipment offered in the Bid; b) the projected operating and maintenance costs during the life of the equipment; c) the performance and productivity of the equipment offered; and/or d) other specific criteria indicated in the Scope of Work

30. Domestic Preference	30.1	If the BDS so specifies, the FBR will grant a margin of preference to certain goods in line with the rules, regulations, regulatory guides or instructions issued by the Authority from time to time.
31. Determination of Most Advantageous Bid	31.1	In case where the FBR adopts the Cost Based Evaluation Technique and, the Bid with the lowest evaluated price from amongst those which are eligible, compliant and substantially responsive shall be the Most Advantageous Bid.
	31.2	FBR would evaluate bids based on quality of overall bid as stated in this RFP document General provisions of PPRA rules state: (a) “most advantageous bid” means,- (i) a bid or proposal for goods, works or services that after meeting the eligibility or qualification criteria, is found substantially responsive to the terms and conditions as set out in the bidding or request for proposals document; and (ii) evaluated as the highest ranked bid or proposal on the basis of cost or quality or qualification or any combination thereof, as specified in the bidding documents or request for proposal documents which shall be in conformity with the selection techniques to be issued by the Authority;

F. AWARD OF CONTRACT

32. Criteria of Award	32.1	Subject to ITB 33, the FBR will authorize the Bidder whose Bid has been determined to be substantially responsive to the Bidding Documents, provided that such Bidder has been determined to be: a) eligible in accordance with the provisions of ITB 3; b) is determined to be qualified to perform the obligations satisfactorily; and c) Successful negotiations have been concluded, if any.
33. Negotiations	33.1	Negotiations may be undertaken with the responsive bidders relating to the following areas: (a) a minor alteration to the technical details of the statement of requirements; (b) reduction of quantities for budgetary reasons, where the reduction is in excess of any provided for in the Bidding documents; (c) a minor amendment to the special conditions of Contract; (d) finalizing payment arrangements; (e) delivery arrangements; (f) the methodology for provision of related services; or (g) clarifying details that were not apparent or could not be finalized at the time of Bidding;
34. FBR's Right to reject All Bids	34.1	Notwithstanding ITB 32, the FBR reserves the right to reject all the bids, and to annul the Bidding process at any time prior to award of contract, without thereby incurring any liability to the affected Bidder or Bidders. However, the Authority (i.e. PPRA) may call from the FBR the justification of those grounds.
	34.2	Notice of the rejection of all Bids shall be given promptly to all Bidders that have submitted Bids.
	34.3	The FBR shall upon request communicate to any Bidder the grounds for its rejection of its Bids, but is not required to justify those grounds.

35. FBR's Right to Vary Quantities at the Time of Award	35.1	The FBR reserves the right at the time of authorization to increase or decrease the quantity of goods or related services originally specified in these Bidding Documents (schedule of requirements)
36. Notification of Award	36.1	Prior to the authorization, the FBR shall issue a Final Evaluation Report giving justification for acceptance or rejection of the bids.
	36.2	Where no complaints have been lodged, the Bidder(s) whose Bids have been accepted will be notified of the award by the FBR prior to expiration of the Bid Validity period in writing or electronic forms that provide record of the content of communication. The Letter of Acceptance will state the scope of works as prescribed by the license.
	36.3	The notification of award will constitute the formation of the Authorization, subject to the Bidder furnishing the Performance guarantee in accordance with ITB 38 and signing of the authorization in accordance with ITB 37.2 .
	36.4	Upon the successful Bidder's furnishing of the performance guarantee pursuant to ITB 38 , the FBR will promptly notify each unsuccessful Bidder, the name of the successful Bidder(s) and will discharge the Bid Security or Bid Securing Declaration of the Bidders pursuant to ITB 16.7 .
37. Signing of Contract	37.1	Promptly after notification of award, FBR shall send the successful Bidder the draft agreement, incorporating all terms and conditions as agreed by the parties to the contract.
	37.2	Immediately after the Redressal of grievance by the GRC, and after fulfillment of all conditions precedent of the Contract Form, the successful Bidder and the FBR shall sign the contract.
38. Performance Guarantee	38.1	After the receipt of the Letter of Acceptance, the successful Bidder, within the specified time, shall deliver to the FBR a Performance Guarantee in the amount and in the form stipulated in the BDS and SCC , denominated in the type and proportions of currencies in the Letter of Acceptance and in accordance with the Conditions of Contract.

	38.2	If the Performance Guarantee is provided by the successful Bidder and it shall be in the form specified in the BDS which shall be in any of the following: (a) certified cheque, cashier's or manager's cheque, or bank draft; (b) irrevocable letter of credit issued by a Scheduled bank or in the case of an irrevocable letter of credit issued by a foreign bank, the letter shall be confirmed or authenticated by a Scheduled bank; (c) bank guarantee confirmed by a reputable local bank or, in the case of a successful foreign Bidder, bonded by a foreign bank; or Any Performance Guarantee submitted shall be enforceable in Pakistan.
	38.3	Failure of the successful Bidder to comply with the requirement of ITB 38.1 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security, in which event the FBR may make the award to the next ranked Bidder or call for new Bids.
39. Arbitrator	39.1	The Arbitrator shall be appointed by mutual consent of both parties as per the provisions specified in the SCC.
40. Corrupt & Fraudulent Practices	40.1	Procuring Agencies (including beneficiaries of Government funded projects and procurement) as well as Bidders/Suppliers/Contractors under Government financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts, and will avoid to engage in any corrupt and fraudulent practices.

**G. GRIEVANCE REDRESSAL &
COMPLAINT REVIEW MECHANISM**

41. Constitution of Grievance Redressal	41.1	FBR shall constitute a Grievance Redressal Committee (GRC) comprising of odd number of persons with proper power and authorization to address the complaint. The GRC shall not have any of the members of Procurement Evaluation Committee. The committee must have one subject specialist depending the nature of the procurement.
42. GRC Procedure	42.1	Any party can file its written complaint against the eligibility parameters or any other terms and conditions prescribed in the

		prequalification or bidding documents found contrary to provision of Procurement Regulatory Framework, and the same shall be addressed by the GRC well before the bid submission deadline.
	42.2	Any Bidder feeling aggrieved by any act of the FBR after the submission of his bid may lodge a written complaint concerning his grievances not later than seven days of the announcement of technical evaluation report and five days after issuance of final evaluation report.
	42.3	In case, the complaint is filed against the technical evaluation report, the GRC shall suspend the procurement proceedings.
	42.4	In case, the complaint is filed after the issuance of the final evaluation report, the complainant cannot raise any objection on technical evaluation of the report: Provided that the complainant may raise the objection on any part of the final evaluation report in case where single stage one envelop bidding procedure is adopted.
	42.5	The GRC, in both the cases shall investigate and decide upon the complaint within ten days of its receipt.
	42.6	Any bidder or the FBR not satisfied with the decision of the GRC may file Appeal before the Appellate Committee of the Authority on prescribed format after depositing the Prescribed fee.
	42.7	The Committee, upon receipt of the Appeal against the decision of the GRC complete in all respect shall serve notices in writing upon all the parties to appeal.

	42.8	The committee shall call the record from the concerned FBR or the GRC as the case may be, and the same shall be provided within prescribed time.
	42.9	The committee may after examination of the relevant record and hearing all the concerned parties, shall decide the complaint within fifteen (15) days of receipt of the Appeal.
	42.10	The decision of the Committee shall be in writing and shall be signed by the Head and each Member of the Committee. The decision of the committee shall be final.

H. MECHANISM OF BLACKLISTING

43. Mechanism of Blacklisting	43.1	The FBR shall bar for not more than the time prescribed in Rule-19 of the Public Procurement Rules, 2004, from participating in their respective procurement proceedings, bidder or contractor who either: i. Involved in corrupt and fraudulent practices as defined in Rule-2 of Public Procurement Rules; ii. Fails to perform his obligations; and iii. Fails to abide by the id securing declaration;
	43.2	The show cause notice shall contain: (a) precise allegation, against the bidder; (b) the maximum period for which the FBR proposes to debar the bidder from participating in any public procurement of the FBR; and (c) the statement, if needed, about the intention of the FBR to make a request to the Authority for debarring the bidder from participating in public procurements of all the procuring agencies.
	43.3	The FBR shall give minimum of seven days to the bidder or contractor for submission of written reply of the show cause notice
	43.4	In case, the bidder fails to submit written reply within the requisite time, the FBR may issue notice for personal hearing to the bidder authorize representative of the bidder and the FBR shall decide the matter on the basis of available record and personal hearing, if availed.
	43.5	In case the bidder submits written reply of the show cause notice, the FBR may decide to file the matter or direct issuance of a notice to the bidder for personal hearing.
	43.6	The FBR shall give minimum of seven days to the bidder for appearance before the specified officer of the FBR for personal hearing. The specified officer shall decide the matter on the basis of the available record and personal hearing of the bidder, if availed
	43.7	The FBR shall decide the matter within fifteen days from the date of personal hearing unless the personal hearing is adjourned to a next date and in such an eventuality, the

		period of personal hearing shall be reckoned from the last date of personal hearing.
	43.8	The FBR shall communicate to the bidder the order of debarring the bidder from participating in any public procurement with a statement that the bidder may, within thirty days, prefer a representation against the order before the Authority.
	43.9	Such blacklisting or barring action shall be communicated by the FBR to the Authority and respective bidder or bidders in the form of decision containing the grounds for such action. The same shall be publicized by the Authority after examining the record whether the procedure defined in blacklisting and debarment mechanism has been adhered to by the FBR.
	43.10	The bidder may file the review petition before the Review Petition Committee Authority within thirty days of communication of such blacklisting or barring action after depositing the prescribed fee and in accordance with “Procedure of filing and disposal of review petition under Rule-19(3) Regulations, 2021”. The Committee shall evaluate the case and decide within ninety days of filing of review petition
	43.11	The committee shall serve a notice in writing upon all respondent of the review petition. The notices shall be accompanied by the copies of review petition and all attached documents of the review petition including the decision of the FBR. The parties may file written statements along with essential documents in support of their contentions. The Committee may pass such order on the representation may deem fit.
	43.12	The Authority on the basis of decision made by the committee either may debar a bidder from participating in any public procurement process of all or some of the procuring agencies for such period as the deemed

		appropriate or acquit the bidder from the allegations. The decision of the Authority shall be final.
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SECTION III: BID DATA SHEET

The instant procurement for authorized vendors is being conducted under the PPRA Ordinance, 2002 (as amended) and the Public Procurement Rules, 2004. The authorization is aligned with the provisions of public procurement as outlined in Section 2(1) of the PPRA Ordinance, which states:

“2(1). public procurement” means acquisition of goods, services or construction of any works financed wholly or partly out of the public fund and includes disposal of public assets and commercial transactions between procuring agency and private party, in terms of which the private party is allowed to-

- (i) perform a procuring agency’s assigned functions, including operations and management, on its behalf;*
- (ii) assume the use of public asset; or*
- (iii) receive a benefit either from budget or revenue of the Federal Government or from fees or charges to be collected by the private party for performing the procuring agency’s function or any combination thereof;”*

Furthermore, the entire procurement structure has been designed in accordance with Rule 4 of PPR, 2004, to ensure fairness, transparency, value for money, and efficiency. The rule states:

“4. Principles of procurements-

Procuring agencies, while engaging in procurements, shall ensure that the procurements are conducted in a fair and transparent manner, the object of procurement brings value for money to the agency and the procurement process is efficient and economical”.

Since the proposed arrangement involves a variety of solutions across the system, it incorporates the broadest possible specifications as per Rule 10 of PPR, 2004. Accordingly, the entire procurement process and structure align with these principles and the relevant provisions of PPR, 2004, including but not limited to Rules 15, 21, 23, 29, and associated rules. The translation of these provisions has been included in the bidding document. To accommodate the scale of the industry and prevent exclusivity with a single authorized vendor (while expediting implementation), multiple authorized vendors are being engaged to promote competition and provide businesses the opportunity to work with various eligible vendors.

The following specific data for introducing range of authorized vendors for installation integration, commissioning, operation, maintenance, and support of a Digital Production Monitoring System (DPMS) for the paper and paperboard sector, comprising PLC/SCADA or machine-controller integration, barcode/QR code/Rfid-based traceability, industrial sensors,

load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR (including all associated hardware, software, communication infrastructure, and system integrations), shall complement, supplement, or amend the provisions contained in the Instructions to Bidders (ITB). In the event of any inconsistency or conflict, the provisions contained herein shall prevail over the corresponding provisions of the ITB.

Definitions: In this RFP, unless there is anything repugnant in the subject or context

- a. “FBR” or “Board” refers to the Federal Board of Revenue, responsible for authorizing vendors to deploy the specified system and ensuring compliance with the technical and operational requirements specified in this RFP
- b. “Authorized vendor” or “Vendor” or “Supplier” refers to any registered company authorized by the Board to deploy a production counting system specified by FBR after solution is finalized.
- c. “Client” or “Manufacturer” or “Taxpayer” refers to the paper and paperboard manufacturer, processor, converter, assembler, producer, importer, exporter, warehouse operator, or other taxpaying entity, as applicable, that is required by the FBR to implement the Digital Production Monitoring System under the applicable laws, rules, notifications, or directions.
- d. “Paper and paperboard facility(ies)” refers to any paper mill, paperboard mill, corrugation plant, converting facility, printing and packaging facility, sheeting or cutting facility, warehouse, dispatch center, or any other notified premises where paper, paperboard, corrugated board, kraft paper, duplex board, tissue paper, packaging paper, paper rolls, reels, sheets, reams, bundles, cartons, pallets, or other notified paper and paperboard products are manufactured, processed, converted, stored, packaged, or dispatched.
- e. “Paper and paperboard production, conversion, and packing line(s)” means the physical production lines, machinery, equipment, and associated operational stages comprising the end-to-end manufacturing, converting, packing, storage, and dispatch of paper and paperboard products, including, where applicable, paper machine discharge, pope reel, winding and rewinding, slitting, sheeting, corrugation, coating, laminating, printing, converting, bundling, wrapping, labeling, palletization, warehouse entry and exit, weighbridge operations, and dispatch points.
- f. “Installation point(s)” refers to the specific production stage(s) along the production line, machine(s), process area(s), utility system(s), warehouse location(s), or dispatch point(s) at which the Vendor's Digital Production

Monitoring System (PDMS) is deployed to monitor, identify, measure, verify, weigh, trace, record, or report production, inventory movement, or dispatches using one or more approved technologies. Production may be measured in rolls, reels, sheets, reams, bundles, cartons, pallets, kilograms, metric tonnes, square meters, linear meters, GSM, product grade, batch number, reel number, SKU, or any other unit or identifier approved by the FBR.

- g. "Scanning, Identification and Counting System", "Production Monitoring System", "Digital Production Monitoring System (DPMS)", "Solution", or "System" means an integrated hardware, software, communication, and industrial automation solution that enables real-time or near real-time monitoring, measurement, identification, verification, traceability, recording, reconciliation, and reporting of paper and paperboard production, inventory movements, and dispatches. The system may utilize PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, barcode/QR code/RFID technologies, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or other FBR-approved technologies, and shall capture production information including, where applicable, product grade, GSM, reel dimensions, weight, length, width, sheet count, batch number, reel number, SKU, production line, machine, shift, inventory movement, dispatch information, and other approved production attributes.
- h. "Alternate solution(s)" or "Alternative solution(s)" or "Alternate production count solution" refers to a production count or measurement solution other than the scanning and counting solution provided it meets the technical evaluation and POC evaluation criteria (including preferable accuracy of 99% with a minimum requirement of 99%) defined in Section V – Scope of Work and is cost effective.

The procurement process shall be conducted in accordance with the Public Procurement Regulatory Authority (PPRA) Rules under the Two-Stage Bidding Procedure.

The bidding process shall comprise the following stages:

1. Stage One

- a. Submission of Technical Proposal including the indicative price per installation point and a detailed price breakdown for each hardware, software, communication, integration, and implementation component of the proposed Digital Production Monitoring System (DPMS). The proposed solution may

comprise one or more technologies, including PLC/SCADA or machine-controller integration, barcode/QR code/RFID-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. The Technical Proposal shall also include the proposed system architecture, integration methodology, communication protocols, cybersecurity framework, implementation plan, and compliance with the technical requirements specified in this RFP.

- b. Proof of concept conducted on one installation point

Upon submission of proposals, bidders will be evaluated based on the Technical Evaluation Criteria specified in Section V. To be eligible for conducting POC, vendors must achieve a minimum technical evaluation score of 70% based on the technical assessment criteria outlined in Section V – Scope of Work. Any proposal that does not meet this minimum threshold will be considered non-compliant and will not be further considered in the bidding process.

Successful bidders shall then be required to conduct POC, which will be evaluated as per the POC criteria stipulated in Section V – Scope of Work.

Post the Bidders Conference, FBR will, at its discretion, finalize a specific production counting solution for implementation.

A revised RFP with FBR's finalized solution will be circulated with all bidders after the Bidders Conference.

2. Stage Two

- a. Submission of a Technical Proposal against revised RFP incorporating the finalized solution including the firm and binding price per installation point and breakdown of price per component
- b. Proof of concept conducted on one installation point.

In this stage, eligible bidders will submit a Technical Proposal against the revised RFP, which shall include the firm and binding price per installation point and breakdown of price per component for the solution finalized by FBR.

Upon submission of proposals, bidders shall be required to conduct a final POC test, which shall be evaluated as per the finalized criteria established by FBR in the revised RFP.

After successful completion of Stage Two, letters of authorization shall be issued to the selected bidders for deployment of the finalized solution across the entire paper and paperboard sector.

Note: FBR reserves the right to limit the number of authorized vendors based on scoring of technical evaluation and POC criteria

A. INTRODUCTION

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
1.	1.1	Name of Procuring Agency: Federal Board of Revenue (FBR) FBR invites proposals from eligible Vendors for the design, supply, installation, integration, commissioning, maintenance, and operational support of a Digital Production Monitoring System (DPMS) for the paper and paperboard sector. The proposed solution may comprise one or more technologies, including PLC/SCADA or machine-controller integration, barcode/QR code/Rfid-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. The Digital Production Monitoring System shall monitor, measure, identify, verify, record, and report production, inventory movements, and dispatches in real time or near real time. The system shall capture production information, as applicable, including reels, rolls, sheets, reams, bundles, cartons, packs, pallets, product grade, GSM, dimensions, weight, length, width, SKU/product code, reel number, batch/lot number, production line, machine, shift, manufacturing facility, warehouse movements, and dispatch records.

		The selected Vendor shall design, install, configure, integrate, test, commission, operate, maintain, and support the Digital Production Monitoring System at designated paper and paperboard manufacturing, converting, packaging, warehousing, and dispatch facilities. The Vendor shall integrate the solution with the FBR's centralized monitoring platform, dashboards, databases, and other designated information systems to facilitate secure real-time or near real-time monitoring, production reconciliation, reporting, traceability, and audit.
2.	2.1	Financial year for the operations of the FBR: FY'26-27, FY'27-28 Source of Funds for the bidding process: Government of Pakistan as part of the FBR Transformation Plan / Transformation Delivery Unit initiative Name of Project: Authorized vendors for installation and maintenance of production monitoring system in paper and paperboard sector (Three years from authorization) Name of system financing institution: Paper mills, paperboard manufacturers, corrugated packaging manufacturers, and paper conversion units Name and identification number of the Contract: [insert: name and identification number of the Contract]
3.	3.4	Joint Venture is applicable Maximum number of members in the joint venture, consortium or association shall be 3 members.
4.	4.6	Demonstration of authorization by manufacturer is not required

B. BIDDING DOCUMENTS

5.	7.2	The number of documents to be completed and returned: a. One original document b. Two certified copies of original document c. Bid security amount of PKR 1,000,000/-
6.	8.2	The address for clarification of Bidding Documents is Room 510, 5th Floor, FBR House, Constitution Avenue, G-5, Islamabad
	8.5	Pre-bid meeting will be held on 31st July, 2026 at 11:00, 3rd Floor, FBR House, Constitution Avenue, G-5, Islamabad Bidders Conference will be held on 19th August, 2026 at 11:30 AM , 3rd Floor, FBR House, Constitution Avenue, G-5, Islamabad The solution to be deployed will be finalized by FBR at the end of stage 1, after the Bidders Conference has been conducted.

C. PREPARATION OF BIDS

7.	10.1	The Language of all correspondences and documents related to the Bid is: English
8.	11.1 (h)	In addition to the documents stated in ITB 11, the following documents must be included with the Bid: a. comprehensive profile of the company; b. brief about managerial and technical personnel indicating name, position, qualification and experience; c. total number of current employees; d. list of major clientele; e. documents showing relevant capacity of deploying production monitoring system, PLC/SCADA or machine-controller integration, barcode/QR code/Rfid-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or other equivalent industrial production

		monitoring technologies, as detailed in Section V. (detailed in section V); f. in case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4. g. complete history of activities undertaken and synopsis of the projects done; h. current commitments and status of in-hand projects; i. incorporation certificate under the Companies Act, 2017, and in case of Consortium or joint venture at least one member has such incorporation certificate; National Tax Number (NTN) certificate; j. audited accounts of the last three financial years; k. Income Tax returns for the last three years; l. registration with Sales Tax and Income Tax Department of FBR; m. computerized National Identity Cards (CNICs) of the Directors of the incorporated company; and n. undertaking that the company has never been blacklisted by any Government or private department or organization and has not been involved in confirmed cases of fiscal fraud.
9.	12.3 (c)	Other specific documentation requirements for paper and paperboard sector production monitoring which may comprise PLC/SCADA or machine-controller integration, barcode/QR code/Rfid-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. Proposed design for installation of hardware and software for production monitoring and counting system: • Detailed technical specifications of scanners, sensors, industrial cameras, industrial PCs, servers, connectivity hardware, edge devices, software, APIs, dashboards, and any other components proposed for deployment. • Installation blueprints showing coverage of relevant production, assembly, processing, conversion, packing,

		warehouse, and dispatch lines, including precise placement of scanners, cameras, sensors, or other devices for accurate counting of reels, rolls, sheets, bundles, reams, cartons, packs, or pallets. • High-level and low-level architecture diagrams covering device connectivity, local processing, storage, transmission, FBR integration, cyber security, and failover arrangements. • A timeline for installation activities, including milestones for site survey, setup, testing, training, handover, and support. • Proposed maintenance team deployment and operations across relevant facilities, including escalation matrix, response times, preventive maintenance plan, and spare-parts strategy. • Details of similar ongoing and completed projects, including client purchase orders, completion certificates, experience certificates, or equivalent evidence. 1. - a. - b. - c. 2. - a. - b. - c. 3. - a. - b. - c. 4. - a. - b.
10.	13.3 (c)	Spare parts required for 5 years of operation.
11.	13.3 (b)	The qualification criteria required from Bidders in ITB 13.3(b) is modified as follows: 1. The Bidders shall have experience of at least 05 years in provision/deployment of similar kind of solutions/products globally or in Pakistan

12.		The pricing arrangement shall be decided between the vendor and manufacturer. However, to ensure protection against potential overcharging and/or fleecing, FBR may define an upper restriction on the price to be charged for the entire system. The final pricing terms and conditions will be agreed upon between the Manufacturer and the Vendor. To ensure affordability and ease of adoption, vendors may offer flexible payment structures, including: • Phased or instalment-based payments to reduce the financial burden on taxpayers. • Competitive pricing and potential discounts for long-term commitments. • Flexible terms that accommodate affordability without compromising system integrity. Note: The upper limit set by FBR may be revised over time at the discretion of the procuring agency, i.e., FBR.
13.	15.1	The Bid Validity period shall be 150 days or extendable as mutually agreed.
14.	16.1	The amount of Bid Security shall be PKR 1,000,000/- The currency of the Bid Security shall be: Pakistani Rupee.
15.	16.3	The Bid Security shall be in the form of <i>Bank Guarantee or Bank Draft in the favor of FBR, Revenue Division</i>
16.	16.3 (c)	Other forms of security are not applicable.
17.	17.1	Alternative Bids to the requirements of the Bidding Documents will not be permitted
18.	19.1	A hard copy of complete bid in original along with 2 copies one in soft form shall be submitted
19.	19.2	Written confirmation of authorizations are: 1. <i>Authority Letter from the Bidder on Organization's Official Letter Head verified by or submitted by CEO.</i> 2. <i>Name, CNIC, Address of authorized personal must be mentioned</i>

D. SUBMISSION OF BIDS

20.	20.2 (a)	Bid shall be submitted in Room 510th, 5th Floor, FBR House, Constitution Avenue, G-5, Islamabad
21.	20.2 (b)	Project name: Authorized vendors for installation and maintenance of production monitoring system in paper and paperboard sector ITB title and No: [insert ITB title and number] Time and date for submission: [insert time and date]
22.	21.1	The deadline for hard copy Bid submission is: a) Date: <i>13th August, 2026</i> b) Time: 11:00 AM

E. OPENING AND EVALUATION OF BIDS

23.	24.1	The Bid opening shall take place at: Street address: <i>Constitution Avenue, G-5</i> Building/Plot No.: <i>FBR House 358, 3rd Floor.</i>
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		City/Town: <i>Islamabad</i> Country: <i>Pakistan</i> Day: <i>Thursday</i> Date: <i>13th August, 2026</i> Time: <i>11:30 AM</i>
24.	29.3 (a)	Cost of spare parts will be an arrangement between vendor and manufacturer
25.	29.3 (b)	The Bidder shall establish e-depot facilities with local stock in major paper, paperboard, corrugated packaging, and conversion production hubs across Pakistan to support anticipated replacements and ensure prompt service. Service availability shall be 24 hours a day, 7 days a week (24/7)
26.	29.3 (d)	Performance and Productivity of the paper and paperboard sector production monitoring system, which may comprise PLC/SCADA or machine-controller integration, barcode/QR code/Rfid-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length, GSM and other production parameter measurement, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR, shall be measured based on: System uptime: to be maintained at 99% daily Counting accuracy: minimum acceptable accuracy of 99% during POC and operational tests Data transmission: secure real-time or near real-time transmission to FBR-approved platform Auditability: ability to retain logs, images/video snippets or records, exceptions, timestamps, and user activity logs for review a.

27.	29.3 (d)	Specific additional criteria to be used in the evaluation and their evaluation method or reference to the Scope of Work – Technical Evaluation Criteria
28.	31.2	Evaluation Techniques Aspects for Ranking the Quality of the Product In addition to mandatory requirements and technical specifications, FBR may evaluate the following parameters to determine the quality of the proposed solution: 1. Additional Functionalities: ○ Advanced analytics features, such as anomaly detection, predictive maintenance, and real-time alerts. ○ Integration capabilities with existing FBR systems or other enforcement tools. 2. Sustainability and Reliability: ○ Energy efficiency of the solution, including power consumption of servers and hardware equipment. ○ Durability of equipment in industrial environments (dust, high temperatures, and vibrations). 3. Operational Efficiency: ○ System uptime and redundancy features to ensure minimal downtime. ○ Data accuracy and minimal false positives in alert generation. 4. Enhanced Security Features: ○ Data encryption during transmission and at rest.

		○ Role-based access controls and audit trails for system activities. 5. Scalability and Flexibility: ○ Ability to scale up or down based on the number of manufacturing facilities. ○ (e.g., new scanner types). 6. Ease of Maintenance: ○ Localized support infrastructure for maintenance and troubleshooting. ○ Availability of spare parts and replacement components in Pakistan. 7. Post-deployment Support: ○ Availability of post-deployment support, including system updates and user training. 8. Deployment and Commissioning: ○ Comprehensive deployment plan, including setup, configuration, and system testing. ○ Availability of training programs for FBR enforcement teams.
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F. AWARD OF CONTRACT

29.	38.1	The Performance Guarantee shall be applicable and will be set at fixed amount of PKR 5,000,000 only. Note: This limit may be revised and lowered
30.	39.1	Arbitrator shall be appointed by mutual consent of both parties - Which will include a member from FBR, nominee from vendor and Secretary Finance shall be the head of arbitration

G. REVIEW OF PROCUREMENT DECISIONS

31.	41.1	The address of the FBR - Room 321, 3 rd Floor, FBR House, Constitution Avenue, G-5, Islamabad
32.	42.1	The Address of PPRA to submit a copy of grievance:

		Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority 1 st Floor, G-5/2, Islamabad, Pakistan Tel: +92-51-9202254
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SECTION IV. ELIGIBLE COUNTRIES

All the bidders are allowed to participate in the subject procurement without regard to nationality, except bidders of some nationality, prohibited in accordance with policy of the Federal Government.

Following countries are ineligible to participate in the procurement process:

1. India
2. Israel

SECTION V: SCOPE OF WORK

A. SCHEDULE OF REQUIREMENTS

FBR intends to cover all relevant paper and paperboard sector manufacturing, processing, assembly, conversion, packing, and/or dispatch lines in Pakistan as per the following installation schedule:

Cumulative 20% lines to be covered by: _____

Cumulative 50% lines to be covered by: _____

Cumulative 100% lines to be covered by: _____

Authorized Vendor(s) shall possess, or demonstrate the ability to promptly procure and deploy, all hardware, software, communication infrastructure, and associated components required for implementation of the Digital Production Monitoring System (DPMS). The proposed solution may comprise PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, barcode/QR code/Rfid-based traceability, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. The Vendor shall have the capability to deploy, commission, maintain, and support the system across designated paper and paperboard manufacturing facilities throughout Pakistan.

B. TECHNICAL REQUIREMENT

A. Background

01. Business Objectives of the FBR

- i. FBR intends to deploy a production monitoring and counting system across paper and paperboard manufacturing facilities in Pakistan under the Transformation Delivery Unit initiative to improve production visibility and tax compliance.
- ii. The Digital Production Monitoring System shall monitor, measure, identify, verify, record, and report production, in real time or near real time. The system shall capture production information, as applicable, including reels, rolls, sheets, reams, bundles, cartons, packs, pallets, square meters, linear meters, kilograms, metric tons, GSM, product grade, reel dimensions, weight, batch number, reel number, SKU/product code, production line, machine, manufacturing facility, and any other production parameter or unit approved by the FBR.
- iii. The solution may comprise one or more technologies, including Code, RFID, or OCR based counting and identification which can differentiate between SKU type and count; video or still imaging based recognition and analysis of product type, grade, or unique

feature at important value addition stages on production line, or any other technically suitable solution proposed by the Vendor and approved by the FBR, provided it satisfies the technical, functional, performance, cybersecurity, interoperability, and Proof of Concept (POC) requirements specified in this RFP.

B. Business Functions and Performance Requirements

01. Scope of Production Monitoring

The system shall monitor production and/or dispatch at points including rewinding/slitting output, roll/reel finishing, sheet cutting, ream/bundle packing, corrugation output, board sheet stacking, weighing scale or weighbridge, finished goods warehouse entry, dispatch gate or other FBR-approved point.

The system shall record product type, grade, GSM/BF/fluting/category, SKU/product code, batch/lot, roll/reel or bundle/carton number, width, length, GSM, weight, sheet count, quantity in rolls/reels/sheets/reams/bundles/cartons/kilograms/metric tons/square meters, line, facility, date/time, shift/batch and rejected/reworked/downgraded production where identifiable.

02. Functional Performance Requirements

The system shall count, identify, weigh or measure paper and paperboard outputs, support multiple units, prevent duplicate counting via unique identifiers and validation logic, store and transmit structured data securely to FBR, generate grade/GSM/SKU/roll/weight/line/facility reports, capture exceptions and provide role-based FBR dashboards and anomaly alerts.

03. System Components

The solution may include one or more technologies, including barcode/QR code scanners, RFID readers and tags, OCR systems, industrial cameras, video analytics, image-based recognition, PLC/SCADA or machine-controller interfaces, industrial sensors, encoders, line-speed sensors, load cells, weighing systems, weighbridge integration, reel diameter, width, length and GSM measurement devices, Industrial PCs, Industrial Edge Gateways, local databases and storage, managed industrial networking equipment, communication gateways, dashboards, reporting modules, secure APIs, product master data management, unit conversion and reconciliation modules, audit trails, alert management, cybersecurity controls, backup and recovery mechanisms, and any other technically suitable hardware, software, communication infrastructure, or system components proposed by the Vendor and approved by the FBR to monitor, measure, verify, record, and report production, inventory movements, and dispatches.

04. Product Master and Measurement Mapping

The vendor shall map product type, grade, GSM, SKU/product code, roll/reel number, batch, unit of measurement and facility with the relevant manufacturer. The system shall support unit conversion and reporting across rolls/reels, sheets, reams, bundles, cartons, kilograms, metric tons and square meters.

No change to the product master, measurement mapping, unit-conversion configuration, calibration settings, or to any video-analytics, OCR or other analytical or AI model (including any retraining or recalibration) shall be made by the vendor, whether at the request

or direction of the taxpayer or manufacturer or otherwise, without the prior written approval of the FBR. All such changes shall be version-controlled and recorded in immutable, attributable logs identifying the change, the FBR approval reference, the responsible party and the date, and shall be visible to the FBR.

05. Data, Dashboard, Security and Support

The system shall store data locally during outage, synchronize after restoration, encrypt data and provide dashboards for daily production/dispatch, product-wise, grade/GSM-wise, SKU-wise, roll/reel-wise, weight-wise, line/facility-wise reporting, exceptions, downtime, audit logs, device health and trend analysis. The vendor shall provide preventive/corrective maintenance, replacement, updates, training and on-site/remote support.

06. System Integrity & Auditability

The FBR shall have the right to audit raw and processed data at the device, edge, local-server and cloud layers, and the system shall expose such data to the FBR for independent verification without dependence on the Vendor. The system shall maintain version-controlled logs of all software, firmware and analytical or AI model changes, recording the version, date, responsible party and description of each change. All manual override and bypass events shall be captured in immutable, tamper-evident audit logs that are directly visible to the FBR rather than merely alerted, and shall be retained for the period specified by the FBR. These controls shall operate in addition to the tamper evidence, device and user access logs, audit trails, data integrity and time-synchronization requirements specified elsewhere in this Scope of Work.

07. Proof of Concept and Evaluation Metrics

The POC shall demonstrate identification of product type, grade/GSM, SKU/product code, roll/reel/batch and accurate count, weight or measurement. Metrics shall include minimum 99% accuracy, correct identification, multiple unit support, duplicate prevention, anomaly detection, dashboard transmission, uptime, audit trail quality, ease of deployment, scalability and cost-effectiveness.

08. Technical Evaluation Criteria

Evaluation shall consider the bidder's experience and technical capability in Digital Production Monitoring Systems (DPMS), including PLC/SCADA or machine-controller integration, industrial automation, barcode/QR code/Rfid-based traceability, industrial sensors, load cells and weighing systems, reel diameter, width, length and GSM measurement, OCR, image-based recognition, industrial cameras, video analytics, production data acquisition, industrial networking, system architecture, production monitoring accuracy, interoperability, scalability, multi-facility support, hardware, software, dashboards, reporting, cybersecurity, data integrity, audit trails, integration with the FBR's centralized monitoring platform, nationwide implementation and maintenance capability, training and technical support, Proof of Concept (POC) performance, and overall technical and commercial cost-effectiveness..

A. Background	
01.	Business Objectives of the FBR

	FBR is undertaking a major digitalization initiative to strengthen tax administration and address structural weaknesses in Pakistan's tax system. As part of this initiative, FBR intends to deploy a production monitoring and counting system at relevant paper and paperboard sector facilities in Pakistan to enhance tax compliance, improve visibility of taxable production, and prevent revenue leakage within the paper and paperboard sector. Under the proposed arrangement, selected vendors shall be responsible for supplying, installing, operationalizing, and maintaining an approved production monitoring solution, barcode/QR code scanners, RFID readers and tags, OCR systems, industrial cameras, video analytics, image-based recognition, PLC/SCADA or machine-controller interfaces, industrial sensors, encoders, line-speed sensors, load cells, weighing systems, weighbridge integration, reel diameter, width, length and GSM measurement devices, Industrial PCs, Industrial Edge Gateways, local databases and storage, managed industrial networking equipment, communication gateways, dashboards, reporting modules, secure APIs, product master data management, unit conversion and reconciliation modules, audit trails, alert management, cybersecurity controls, backup and recovery mechanisms, and any other technically suitable hardware, software, communication infrastructure, or system components proposed by the Vendor and approved by the FBR to monitor, measure, verify, record, and report production, inventory movements, and dispatches. The objective is to create reliable production records, support verification of declarations, provide tamper-evident digital evidence, and enable FBR to monitor production trends through dashboards and secure data integration.		
02.	Term	Explanation	
	AI	Artificial Intelligence	
	API	Application Programming Interface	
	Bps	bits per second	
	Cps	characters per second	
	DBMS	Database Management System	
	DOS	Disk Operating System	
	Dpi	dots per inch	
	Ethernet	IEEE 802.3 Standard LAN protocol	
	GB	Gigabyte	
	Hz	Hertz (cycles per second)	
	IEEE	Institute of Electrical and Electronics Engineers	
	IPC	Industrial Personal Computer	

ISO	International Standards Organization
KB	Kilobyte
kVA	Kilovolt ampere
LAN	Local area network
Lpi	lines per inch
Lpm	lines per minute
MB	Megabyte
MTBF	Mean time between failures
NIC	Network interface card
NOS	Network operating system
ODBC	Open Database Connectivity
OLE	Object Linking and Embedding
OS	Operating system
PCL	Printer Command Language
PoE	Power Over Ethernet
Ppm	pages per minute
PS	PostScript -- Adobe page description language
PSS	Power Supply System
RAID	Redundant array of inexpensive disks
RAM	Random access memory
RISC	Reduced instruction-set computer
SCSI	Small Computer System Interface
SKU	Stock-Keeping Unit
SNMP	Simple Network Management Protocol
SQL	Structured Query Language
TCP/IP	Transmission Control Protocol / Internet Protocol
V	Volt
VPN	Virtual Private Network
WLAN	Wireless LAN

B. Business Functions and Performance Requirement

01.	Business Requirements to Be Met by the Information System The solution specified in the RFP shall monitor, measure, identify, verify, record, and report production, inventory movements, and dispatches in real time or near real time using one or more approved technologies, including PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, barcode/QR code/Rfid-based traceability, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or other FBR-approved technologies. The system shall securely capture, process, store, and transmit production and operational data to the FBR's centralized monitoring platform and provide web-based dashboards for production monitoring, inventory reconciliation, dispatch verification, audit trails, exception reporting, and analytics. System Components (a) Capture Data Production data may be captured through: • PLC, SCADA, DCS, or machine controller integration; • Reel counters and production counters; • Load cells and weighing systems; • Online GSM sensors; • Diameter and width measurement sensors; • Encoder-based length measurement systems; • RFID readers and barcode scanners; • Industrial cameras and video analytics systems; • Utility meters including electricity, steam, compressed air and water meters. (b) Ingest, Transform and Load Data Industrial gateways or IPCs shall collect data from field devices and production systems, assign timestamps, validate records, eliminate duplicate entries, perform data cleansing, and store data in a structured database. (c) Store Data Production data shall be stored locally for not less than ninety (90) days and shall support automatic synchronization following restoration of communication failures. (d) Connect Data Data shall be transmitted securely through VPN, TLS encryption, REST APIs,
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	MQTT, OPC-UA or equivalent industrial communication standards. (e) Visualize Data The system shall provide dashboards displaying: - Production by machine; - Production by grade; - Production by GSM; - Production by product category; - Production by facility; - Machine utilization; - Downtime; - Material balance; - Utility consumption; - Inventory levels; - Dispatches; - Exception reports.
02.	Functional Performance Requirements of the Information System The system must maintain an uptime of 99% on a daily basis to ensure seamless real-time or near real-time transfer of data from the manufacturer/operator to FBR for live production monitoring. a. Pre-Award Viability: The vendor must demonstrate the proposed solution at a designated installation point or facility approved by FBR. Accuracy: The required accuracy shall be a minimum of 99% during Proof of Concept and operational acceptance.

	b. Tamper Evidence: The system shall generate alerts for device disconnection, camera obstruction, manual bypass, network outage, abnormal count fluctuations, or other defined exceptions. c. Traceability: The system shall support time-stamped records, device logs, user access logs, and audit trails for production monitoring. Scalability: The solution shall be scalable for deployment across facilities of different sizes, layouts, automation levels, and product categories within the paper and paperboard sector. d. Production Accuracy: The system shall achieve a minimum production monitoring accuracy of 99%. e. Time Synchronization: All devices shall synchronize timestamps through NTP or equivalent protocols with a maximum deviation of one second. f. Data Integrity: All production records shall be tamper evident and protected against unauthorized modification. g. Auditability: The system shall maintain immutable audit logs for: i. Production records; ii. User activities; iii. Configuration changes; iv. Device status events; v. Communication failures. h. Data Retention: Production data shall be retained centrally for a minimum period of seven (7) years.
3.	Related Information Technology Issues and Initiatives i. A control center will be established in FBR which would have integrations with FBR specified computing devices present at all paper and paperboard sector production facilities which would be running the software, storing production monitoring data, machine data, utility consumption data, inventory data, dispatch data, and associated audit records and, sharing it with FBR via live integrations, allowing them to be documented on daily basis.
C. Technical Specification	
01.	General Technical Requirements i. Language Support: All information technologies with the production monitoring system must provide support for English language. Specifically, all display technologies and software must support the ISO 639-1 EN character set and perform sorting according to ISO/IEC 14651

	ii. Dates: All information technologies MUST properly display, calculate, and transmit date data, including, but not restricted to 21st-Century date data. iii. Electrical Power: All active (powered) equipment must operate on 220v +/- 20v, 50Hz +/- 2Hz for V AC. For DC, power must be supplied by an industrial Power Supply Source for 24V or 12 V, depending on the hardware required as IPC, sensors, industrial switch, etc. All active equipment must include power plugs standard in Pakistan. iv. Environmental: All equipment shall be suitable for operation in paper and paperboard manufacturing environments and shall be resistant to dust, vibration, humidity, temperature variation, and industrial contaminants. Equipment installed within production areas shall meet a minimum protection rating of IP65, with IP66 preferred where wash-down or severe environmental exposure exists.				
02.	Computing Hardware Specifications The hardware requirements outlined below are indicative specifications for deployment of a production monitoring, counting, and traceability system in the paper and paperboard sector. The proposed solution may comprise PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, barcode/QR code/Rfid-based traceability, OCR, image-based recognition, industrial cameras, video analytics, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. Vendors may propose equivalent or superior hardware, subject to FBR approval, provided it meets the performance, cybersecurity, reliability, data storage, integration, and availability requirements of this RFP. The hardware may include industrial sensors, cameras, lighting, PLC interfaces, Industrial PCs, Edge Gateways, local servers, networking equipment, UPS, storage devices, and other components necessary for reliable operation in industrial environments. <table border="1"> <tr> <th>Operating System</th><th>Service Pack / Update</th></tr> <tr> <td>Windows 10 (64-bit) or equivalent</td><td>Version 1809 (OS build 17763) or newer</td></tr> </table>	Operating System	Service Pack / Update	Windows 10 (64-bit) or equivalent	Version 1809 (OS build 17763) or newer
Operating System	Service Pack / Update				
Windows 10 (64-bit) or equivalent	Version 1809 (OS build 17763) or newer				

	Name	Indicative Requirements	Indicative Brands (or equivalent)	
	CPU	1. At least Intel® Core™ i7 or higher processor (or equivalent) 2. Must be capable of parallel processing for real-time data ingestion from scanners, sensors, cameras, and RFID readers 3. Must have reliable and scalable storage for production data, logs, and application files 4. Must have defined automated maintenance and backup routines to ensure data integrity and recovery	Intel AMD Qualcomm Arm	
	Industrial PC	Must support: • PLC integration; • OPC-UA communication; • Modbus TCP/IP communication; • Ethernet/IP communication; • Industrial database applications; • Video analytics applications; • RFID and barcode integrations; • Utility meter integrations; • Dashboard applications. Capable of storing and processing: • Production records; • Utility data; • Machine data; • Video analytics metadata; • Inventory records.	Lenovo Dell Advantech Onlogic	
	GPU	Supports NVIDIA GPUs. (or equivalent) NVIDIA CUDA-enabled GPU or equivalent Designed for continuous industrial operation Suitable for video analytics, object detection, and counting applications	Nvidia AMD Asus	

	Barcode / RFID Reader Industrial-grade barcode and/or RFID reading equipment suitable for operation in paper and paperboard manufacturing environments (minimum IP65, IP66/IP67 preferred where required). Capable of reading barcodes and/or RFID tags affixed to: • Finished paper reels and rolls • Paperboard reels and rolls • Sheet stacks • Reams and bundles • Corrugated board stacks • Cartons and finished product packages • Pallets and warehouse storage units • Raw material bales and production batches (where applicable) Capable of real-time product identification, traceability, batch verification, inventory movement tracking, and dispatch verification. The system shall integrate seamlessly with Industrial PCs, PLC/SCADA systems, Manufacturing Execution Systems (MES), Warehouse Management Systems (WMS), or equivalent production monitoring platforms operating on Windows or Linux environments. The equipment shall operate reliably under industrial conditions including paper dust, vibration, varying ambient lighting, temperature fluctuations, and humidity, without degradation in reading performance. The system shall support secure storage and transmission of captured data to SQL or equivalent relational databases in real time or near real time. <table><tr><th>Feature</th><th>Specification</th></tr><tr><td>Resolution</td><td>1440×1080 or higher</td></tr><tr><td>Barcode Types</td><td>1D, 2D, QR Code, Data Matrix, PDF417, Multi-code</td></tr><tr><td>RFID</td><td>UHF / HF (where applicable)</td></tr></table>	Feature	Specification	Resolution	1440×1080 or higher	Barcode Types	1D, 2D, QR Code, Data Matrix, PDF417, Multi-code	RFID	UHF / HF (where applicable)	Cognex Keyence Zebra Banner	
Feature	Specification										
Resolution	1440×1080 or higher										
Barcode Types	1D, 2D, QR Code, Data Matrix, PDF417, Multi-code										
RFID	UHF / HF (where applicable)										

		Technologies HDR / HDR+, Image Based decoding Lighting Integrated or external industrial LED illumination lighting Communication Gigabit Ethernet, Serial, USB, TCP/IP IP Rating IP67 Additional Laser aimer / visual targeting, automatic focus, multi code decoding Equipment must support omnidirectional reading and maintain reliable performance when reading damaged, low-contrast, partially obscured, curved, dusty, or poorly printed labels. It shall also support high-speed conveyor and production line operation without loss of reading accuracy.		
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	Industrial Sensors Sensors may be deployed for monitoring, measuring, detecting, and verifying production activities throughout paper and paperboard manufacturing facilities. Depending upon the production process and the solution proposed by the vendor, sensors may be used for: • Reel and roll detection and counting • Conveyor movement detection • Rewinder and slitter monitoring • Sheeter and cutter output monitoring • Bundle, ream, carton, or pallet detection • Reel diameter and width measurement • Paper length measurement using rotary encoders • Product presence and positioning • Dispatch gate monitoring • Warehouse entry and exit monitoring • Machine status and production cycle monitoring • Weighing system and load cell integration • Utility and process monitoring, including steam, water, compressed air, and energy consumption (where applicable) Example 1 – Ultrasonic / Through-Beam Sensor <table><tr><th>Feature</th><th>Specification</th></tr><tr><td>Brand</td><td>Pepperl+Fuchs</td></tr><tr><td>Description</td><td>Through-beam ultrasonic barrier</td></tr><tr><td>Operating Voltage</td><td>10–30 V DC</td></tr><tr><td>Range</td><td>0–1 m</td></tr><tr><td>Switching Frequency</td><td>≥100 Hz</td></tr><tr><td>Protection</td><td>IP67</td></tr></table> Example 2 – Photoelectric / Retro-Reflective Sensor	Feature	Specification	Brand	Pepperl+Fuchs	Description	Through-beam ultrasonic barrier	Operating Voltage	10–30 V DC	Range	0–1 m	Switching Frequency	≥100 Hz	Protection	IP67	IFM Electronic SICK Pepperl+Fuchs Balluff	
Feature	Specification																
Brand	Pepperl+Fuchs																
Description	Through-beam ultrasonic barrier																
Operating Voltage	10–30 V DC																
Range	0–1 m																
Switching Frequency	≥100 Hz																
Protection	IP67																

		Feature Brand Description Operating Voltage Range Switching Frequency Protection Additional sensor types where applicable • Rotary encoders for paper length and machine speed measurement • Laser distance sensors for reel diameter and positioning • Load cells for reel, roll, and pallet weight verification • Inductive and proximity sensors for machine status detection • Optical sensors for product presence verification • Line-speed sensors for conveyor and production line monitoring • GSM (basis weight) sensors and process instrumentation through PLC/SCADA integration • Flow meters and utility meters for process monitoring Additional industrial sensor technologies may be proposed by the vendor subject to approval by FBR, provided they are suitable for paper and paperboard manufacturing environments and meet the operational, integration, accuracy, and reliability requirements specified in this RFP.		
		Specification IFM Photoelectric/ Retro-reflective sensor 10–26 V DC 0–3 m ≥1500 Hz IP67		

	Camera a Camera type: Industrial IP camera FOV: Field of view shall cover • Paper machine reel discharge points • Pope reel and reel winding stations • Rewinders and slitters • Sheeters and sheet stacking areas • Corrugator output (where applicable) • Packaging and palletizing lines • Finished goods warehouse entry and exit points • Dispatch gates and loading bays • Weighbridge entry and exit (where applicable) • Other FBR-approved production monitoring points Minimum specifications: • 1080p resolution; • 25 fps; • H.264/H.265; • Bitrate: ≥ 5 Mbps • PoE support; • Gigabit Ethernet • IP66 protection. Low-light support preferred; night vision or Infrared optional, subject to deployment area Compression: Support H.264, H.265 Bitrate: ≥ 5 Mbps Power supply: PoE (IEEE 802.3af/at) or DC 12–24V Material: Corrosion-resistant industrial housing suitable for humid and hot environments. and long-term operation in manufacturing environments. The camera shall be suitable for continuous operation in paper and paperboard manufacturing environments and capable of reliable performance under varying lighting conditions, paper dust, vibration, temperature fluctuations, and humidity.	Hikvision Dahua Honeywell Samsung Basler IDS Imaging Hikvision DS-2CD2T47G2-LU or equivalent industrial model	
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		Material: Erosion protective material, with IP65 protection level, Operating Temperature: Minimum 0°C to +50°C, Resistance to dust, moisture, and wash-down conditions Ingress protection: Minimum IP66 (IP67 preferred) Additional Requirements: 1. Managed industrial Ethernet switches. 2. VPN-enabled industrial firewall/router. 3. UPS providing minimum thirty minutes backup. 4. Industrial data gateway supporting OPC-UA, Modbus TCP/IP and MQTT.		
	Power Supply	• Power supply must be 1.25 times of the system and GPU power requirements • Source: AC - DC Single output Industrial DIN rail power supply • Output 24Vdc at 5A; metal case • Metal enclosure	Eaton Phoenix Contact Mean Well	
	RAM	When selecting the system RAM, select the greater of: • The sum of all GPU memory (for example, if you have an NVIDIA GeForce® RTX™ 2080 Ti GPU, which has 11 GB of memory, the PC should have 22 GB of RAM) • The RAM should be one and a half times the typical workspace size. For example, if your typical workspace is 10 GB, the PC should have a minimum of 20 GB of RAM	Samsung ADATA Kingston Crucial	
	Hard Drive	Minimum 1 TB of solid-state drive (SDD)	Samsung ADATA Crucial	
	Web Browser	Google Chrome™ (or equivalent)	Google Chrome Mozilla Firefox Microsoft Edge	

03.	Specific Technical Requirements – Network and Communication Specifications 1. Local Area Network(S): a) Equipment and software: For each type of equipment and software, the vendor shall specify the protocols supported, performance levels, expandability, fault tolerance, and the administration, management and security features. The minimum requirements are as follows: Industrial Switches Ethernet, serial, I/O, Industrial protocols: The system shall support one or more of the following: OPC-UA , Modbus TCP/IP, Ethernet/IP, PROFINET, MQTT IP whitelisting Physical and logical segregation of production systems b) Cabling: The vendor shall provide industrial-grade structured cabling as follows: (i) copper cabling of Category 6/6A (UTP or STP) for Ethernet segments, and shielded twisted-pair or fibre-optic cabling for backbone, long-distance or electrically noisy runs; (ii) a star (hierarchical) topology for the local-area network, with redundant links to critical nodes where required; (iii) installation in accordance with recognised standards (e.g., ANSI/TIA/EIA-568 and ANSI/TIA/EIA-598), using appropriate cable protectors, trunking and channels and maintaining adequate separation from power cabling; and (iv) a consistent cable-labelling scheme cross-referenced to the premises and electrical diagrams. Cables labeled according to electrical diagrams 2. Wide-Area Network: a) ISO: 5021-1:2023 b) Equipment and software: Industrial PC must be connected to internet with REST API or similar in order to reach external server or cloud. Cybersecurity best practices must be ensured in order to guarantee data protection (e.g., demilitarized zone, VPN Tunnel) c) Other communications equipment: If manufacturer is not capable to provide internet access, the vendor must deploy a standard modem with internet access that fulfills application requirements (e.g., data transmission speed)
04.	Software Specifications

	1. Networking and Communications Software: a) Domain Name System (DNS): Offered across the infrastructure to resolve domain names to IP addresses b) Virtual Networking: Ability to create your own networks (subnets), firewall rules, etc., providing flexible and secure network configurations c) Physical Networking Segmentation: Segmentation between production and development environments to enhance security and manageability 2. Communication software: a) Proxy and NTP Services: Networking protocol for clock synchronization between computer systems, ensuring accurate timekeeping b) WAF Services (Web Application Firewall): Firewall that helps protect web applications by filtering and monitoring HTTP traffic c) Remote Access Services: Access to the infrastructure from different locations, enabling remote management and operations d) Internet Access through Proxy: A gateway to connect the infrastructure to the internet, update packages, and apply security patches 3. General-Purpose Software: SQL (Structured Query Language) to be used in all systems. Description: A language used for managing and manipulating relational databases. It allows users to create, read, update, and delete database records efficiently. Example: MySQL, PostgreSQL and Python or equivalent 4. Database Software and Development Tools: Example: SQL Database, MySQL or equivalent 5. Business Application Software: Vendor must use an interactive and user-friendly software to display data within a friendly user interface. Example: HTML and CCS languages or equivalent 6. Applicable Standards The proposed solution should align with the following internationally accepted standards where applicable: • ISO 9001 – Quality Management Systems • ISO 27001 – Information Security Management • ISO 22400 – Manufacturing Operations KPIs • ISO 50001 – Energy Management Systems • ISA-95 – Enterprise-Control System Integration • IEC 62443 – Industrial Cybersecurity • OPC-UA Industrial Communication Standard • TAPPI Standards for Paper Manufacturing
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05.	System Management, Administration, and Security Specifications i. General Requirements: In addition to the management, administration, and security requirements specified in each section covering the various hardware and software components of the System, the System must also provide for the following management, administration, and security features at the overall system level. a. Technical management and troubleshooting b. User and usage administration c. Security
06.	Service Specifications a) Training and Training Materials: i) User: Professional training and certifications (inland and international) on production monitoring systems, PLC/SCADA integration, barcode/RFID systems, industrial sensors, weighing systems, machine interfaces, video analytics, dashboard administration, and digital production monitoring technologies for paper and paperboard manufacturing facilities and FBR officers to operate, manage, maintain, administer, and further develop the system. To build a minimum curriculum covering the following topics: a. General overview of the paper and paperboard sector production monitoring and counting solution b. Procedures to operate the solution on site and verify that it is functioning correctly c. Use of the web-based application to analyze production data and reconcile it with reported figures d. Routine and preventive maintenance of the solution e. Procedures to add, modify, or update production unit identifiers (e.g., batch codes, package/box identifiers, hatch cycles) f. Calibration or configuration adjustments for new barcodes, RFID tags, industrial sensors, visual identifiers, or changes in layout g. Common troubleshooting procedures and fault resolution techniques b) Technical Support: Vendor shall provide the technical support during the operationalization of the

	deployed equipment for at least 03 (three) years, which may be further extended if required. i) A detailed compliance sheet listing each proposed product, including make, model number, technical specifications, and supported standards for scanners, RFID readers, industrial sensors, load cells, weighing systems, PLC interfaces, industrial cameras, networking equipment, computing equipment, and software integrations shall be submitted separately in soft copy. ii) All software, hardware, communication equipment, and network devices shall be compatible with internationally recognized industrial standards and well-known third-party manufacturers. iii) The Vendor shall be responsible for installation, commissioning, diagnostics, preventive maintenance, corrective maintenance, repair, replacement of faulty components, and restoration of system functionality throughout the warranty period. iv) Validity of all the equipment will be at least 03 Years including Critical, Important & Security updates, firmware / Version Up- gradation when released. v) Vendor shall be liable to install, configure, check and commission of the paper and paperboard sector production monitoring and counting system at all designated paper and paperboard sector facilities. vi) Vendor will replace, restore, reinstall, and reconfigure failed components/ devices, firmware, software and allied components without any additional cost during the warranty period. vii) Vendor shall provide the technical support during the operationalization of the deployed equipment for at least 03 (three) years, which may be further extended if required. viii) User support / hot line to be available 24 hours – 6 days a week c) Data Conversion and Migration: Responsibilities and solution details will be mutually agreed upon between the vendor and the FBR during implementation d) Post-deployment maintenance services: The vendor will provide immediate support for the first 3 months for troubleshooting and improving the performance of the solution in a real working environment as well the web-based application. Support shall particularly be provided when the auditor is cross checking data from paper and paperboard sector
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	units versus data received in FBR's system After the 3 months, the vendor will be supporting in a planned way in the following ways: • Adding of new product grades, GSM specifications, SKUs, reel or roll configurations, packaging formats, production lines, and manufacturing facilities introduced by the paper and paperboard sector. • Calibration, reconfiguration, and optimization of barcode scanners, RFID readers, industrial sensors, weighing systems, PLC interfaces, industrial cameras, video analytics systems, and other monitoring equipment resulting from equipment upgrades, layout changes, or production modifications. • Improvement of data capture accuracy from scanners, sensors, and video analytics, including evaluation and installation of additional hardware where required • Enhancement of data visualization, dashboards, and analytical features in the web-based application for paper and paperboard sector operations and audit requirements.
07.	Documentation Requirements - End user documents: - Technical Documents: Documentation shall be shared in paper and digital Documentation must cover the following: - User Manual - Electrical diagrams - Network diagrams - Mechanical drawings - Bill of Material: list of all components used, with manufacturer, part number, number of parts used - Datasheet of most relevant materials used - Spare parts and consumables (if needed) - Warranties
08.	Consumables and other recurrent cost items Vendors shall provide the details of all consumables and Other Recurrent Cost items as per the proposed solution. Example of possible consumables and other recurrent cost items are: • Costs for hosting the application online: cloud or server-based installation

	- Costs for software licenses: Integrated Development Environment (IDE) such as Visual Studio, other software tools for frontend development or database management. Nonetheless, it is highly recommended Open-source tools are more recommended - Costs for software licenses involving hardware: necessary software needed for developing and maintaining the different hardware such as barcode readers - Costs for Operating System: Windows license in installed machines or Windows Server for hosting the application
D. Technical Evaluation Criteria	
01.	Technical Evaluation TECHNICAL EVALUATION CRITERIA Upon submission of proposals, bidders will be evaluated based on the Technical Evaluation Criteria specified above. To be eligible for conducting POC, vendors must achieve a minimum technical evaluation score of 70%. Any proposal that does not meet this minimum threshold will be considered non-compliant and will not be further considered in the bidding process.

Technical Evaluation Criteria (Part of D.01)				
Sr. No.	Metric	Particulars	Marks	Supporting documents
1	Specific experience of the applicant for their proposed solution in an industrial environment	No. of projects where the applicant has deployed their proposed solution in a manufacturing plant in any industry	2 or more projects = 10 marks	Previous clients' PO experience certificate mentioning total number projects.
			1 project = 5 marks	
			No project = 0 marks	
2	Specific experience of the applicant for production counting	No. of projects where the applicant has deployed real time production counting system	2 or more projects = 10 marks	Previous clients' PO or experience certificate mentioning total number of projects.
			1 project = 5 marks	
			No project = 0 marks	

3	Specific experience of the applicant with deployment of fully integrated IT systems	No. of projects where the applicant has deployed IT systems integrating hardware and software involving transmission of captured data through cloud-based systems	2 or more projects = 10 marks	Previous clients' PO or experience certificate mentioning total number of projects.
			1 project = 5 marks	
			No project = 0 marks	
4	Robustness of the solution	This metric shall assess the robustness, scalability, and operational suitability of the proposed Digital Production Monitoring System (DPMS). It shall include, but not be limited to: coverage of all relevant production processes and product types (e.g., reels, rolls, sheets, reams, bundles, cartons, packs, pallets, and other applicable products); compatibility with different paper and paperboard manufacturing	Maximum marks: 30	Any supporting documents deemed necessary (e.g. implementation plan, proof of accuracy of solution across batch types, environmental compliance report, etc.)

		technologies and production lines; degree of operational disruption during installation and commissioning; ease of implementation within live manufacturing operations; resilience to industrial operating conditions (including dust, vibration, humidity, temperature, and high-speed production environments); system reliability and availability; interoperability with existing production equipment and automation systems; and future-proofing, including the ability to accommodate new product grades, GSM, dimensions, packaging formats,		
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		production lines, and manufacturing facilities with minimal reconfiguration.		
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02.	The Project Plan submitted by the Authorized Vendor shall comprehensively address the following subjects for the production monitoring and counting solution or an alternative solution proposed by the vendor: 1. Project Organization and Management Plan ○ Define the roles, responsibilities, and governance structure for effective project execution. ○ Include escalation pathways and points of contact for smooth communication and issue resolution. 2. Equipment Details ○ Detailed specifications, quantities, and brands of all equipment being used to deploy the system (including hardware and software). ○ Indicative price per installation point and breakdown of price per component of deploying the bidder's proposed production count solution 3. Delivery and Installation Plan ○ Detailed timelines and logistics for delivering and installing all components of the production monitoring and counting system. ○ Specify dependencies (e.g., on-site readiness, power, and connectivity requirements). 4. Disaster Recovery Plan ○ Detailed disaster recovery plan which includes details of primary contact, response team, post-mortem analysis of incident, and plan for restoration of operations in case of an on-site disaster. ○ Detailed communication plan including disaster recovery calling tree with escalation levels and contacts information ○ Detailed activation criteria which include conditions or events that trigger the activation of the disaster recovery plan ○ Detailed recovery runbook which includes guidelines to follow to restore all operations for all components ○ Detailed backup and restoration procedures to ensure daily backups in place while ensuring minimal production disruption 5. Training Plan ○ Comprehensive training modules for the FBR and manufacturer staff covering system operation, data analysis, and troubleshooting.
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	○ Include follow-up refresher sessions. 6. Pre-Commissioning and Operational Acceptance Testing Plan ○ Testing protocols to validate system functionality, integration, and compliance with performance benchmarks prior to commissioning. ○ Include criteria for Operational Acceptance. 7. Warranty Service Plan ○ Details of warranty coverage, including response times, replacement policies, and periodic maintenance schedules. 8. Task, Time, and Resource Schedules ○ A Gantt chart or similar representation of key tasks, milestones, and associated timelines. ○ Resource allocation details (e.g., personnel, equipment). 9. Post-Deployment Service Plan (if applicable) ○ Outline post-deployment service provisions, including options for extending support agreements. 10. Technical Support Plan ○ 24/7 support infrastructure, escalation matrix. ○ Availability of spare parts and maintenance procedures. 11. System Development Plan ○ Detailed customization and implementation plan for the proposed production monitoring solution, including PLC/SCADA integration, machine interfaces, barcode/RFID-based traceability, industrial sensors, weighing systems, industrial cameras, video analytics, utility monitoring, dashboards, reporting modules, and any alternative solution proposed by the Vendor, to meet the specific operational, monitoring, reporting, cybersecurity, integration, and audit requirements of the FBR for paper and paperboard manufacturing facilities. ○ Include integration with existing systems, data security protocols, and scalability provisions. 12. Compliance and Certification Plan ○ Ensure adherence to relevant regulatory and security standards (e.g., PTA-approved equipment, evaluation certifications). ○ Provide documentation and timelines for obtaining all necessary certifications. 13. Reporting and Monitoring Plan ○ Mechanism for regular progress updates to the FBR. ○ Include provisions for dashboards or analytics reports to monitor system performance.
E. Testing and Quality Assurance Requirements	

01.	Inspections i. Vendor must demonstrate the viability, capability, and performance of the proposed production monitoring solution by conducting an operational Proof of Concept (POC) or demonstration at a designated paper and paperboard manufacturing facility, or any other site approved by the FBR, prior to the award of the license. The demonstration shall validate that the proposed solution complies with the technical, functional, operational, cybersecurity, integration, and performance requirements specified by the FBR. ii. The Vendor shall be responsible for the safe delivery, installation, integration, configuration, testing, commissioning, and operationalization of all hardware, software, networking equipment, sensors, cameras, PLC interfaces, industrial devices, and associated components at the locations designated by the FBR, within the timelines specified in the Purchase Order. iii. The FBR or its authorized representatives shall have the right to inspect, verify, audit, and test all hardware, software, communication equipment, production monitoring devices, integrations, dashboards, databases, and related components supplied and installed by the Vendor before, during, or after installation, commissioning, and operational acceptance. iv. The FBR shall inspect and test the proposed production monitoring solution to verify its conformity with the technical specifications, functional requirements, cybersecurity requirements, interoperability requirements, performance criteria, and service levels specified in this Agreement and the Purchase Order. Such inspections may include, but shall not be limited to, verification of production monitoring accuracy, system integration, data transmission, dashboard functionality, reporting, audit trails, cybersecurity controls, device health monitoring, failover capability, and overall system performance under actual operating conditions. v. Should any hardware, software, equipment, integration, or component fail to conform to the specifications, performance requirements, or acceptance criteria prescribed by the FBR or the Purchase Order, the FBR may reject such item(s), and the Vendor shall, at its own cost and within the period specified by the FBR, repair, replace, reconfigure, recalibrate, or otherwise rectify the deficiencies to ensure full compliance with the requirements of this Agreement and the Purchase Order.
02.	Proof of Concept Tests In stage one, the bidder shall be required to conduct a Proof of Concept (POC) at one designated production line or installation point within a paper and paperboard manufacturing facility for the proposed production monitoring solution, including

PLC/SCADA integration, machine interfaces, barcode/RFID-based traceability, industrial sensors, weighing systems, industrial cameras, video analytics, or any alternative technology proposed by the Vendor, provided that it satisfies the Technical Evaluation Criteria specified in Section V – Scope of Work and is considered technically feasible and cost-effective by the FBR.

The POC shall demonstrate the Vendor's capability to accurately acquire, process, monitor, store, transmit, and display production data generated from actual manufacturing operations.

The POC will be evaluated based on the criteria defined below.

In stage two, the bidder shall be required to conduct a POC for the solution finalized by the FBR at one designated installation point. The POC shall be evaluated based on:

a. The evaluation criteria defined in the table below; or,

b. Revised evaluation criteria established by the FBR for the finalized production monitoring solution.

Metric	Requirement	Qualification criteria based on test
Solution accuracy	Correctly capture, calculate, and report finished production quantities (including reels, rolls, sheets, or finished products, as applicable) by integrating with production equipment and monitoring devices under actual operating conditions.	Pass: minimum 99% accuracy compared with verified production records, weighing systems, or approved reference measurements. >= 99.5%: Above satisfactory >= 99% & < 99.5%: Satisfactory < 99%: Unsatisfactory Fail: accuracy below 99% compared with verified production records, weighing systems, or approved reference measurements.

03.	Operational Acceptance Tests i. Pursuant to GCC Clause 24 and related SCC clauses, the FBR (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: Proof of Concept tests as stated in Sub-section E (2) in Section V of Scope of Work will be conducted to test the entire solution In addition to the Proof of Concept tests, the System shall not be granted Operational Acceptance unless it satisfies, at a minimum, the following tests: • Counting and measurement accuracy verified against an independent physical count and, where applicable, weighbridge or certified weighing records, meeting the accuracy threshold specified in this RFP (minimum 99%); • Sustained, uninterrupted data acquisition and transmission to the local server and to the FBR's centralized monitoring platform over a continuous monitoring window defined by the FBR, without loss, duplication or degradation of data; • Accurate and timely dashboard and reporting output, reconciled against actual production and dispatch for the test window; • Correct generation and delivery to the FBR of tamper, exception and manual override/bypass alerts under induced test scenarios; and • System availability (uptime) meeting or exceeding the threshold specified by the FBR, measured over a continuous period defined by the FBR.

SECTION VI: STANDARD FORMS

Form 1 Letter of Bid

*INSTRUCTIONS TO BIDDERS: (delete this box once you have completed the document)
Place this Letter of Bid in the first envelope "TECHNICAL PROPOSAL".*

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

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

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

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

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

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

To: *[insert complete name of FBR]*

We, the undersigned Bidder, hereby submit our Bid, in one part, namely:

(a) the Technical Proposal,

In submitting our Bid we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the bidding document, including addenda issued in accordance with Instructions to Bidders (ITB 9);
- (b) **Eligibility:** We meet the eligibility requirements and have no conflict of interest in accordance with ITB 3;
- (c) **Bid/Proposal-Securing Declaration:** We have not been suspended nor declared ineligible by the FBR based on execution of a Bid Securing Declaration or Proposal Securing Declaration in the FBR's country in accordance with ITB 4;
- (d) **Conformity:** We offer to supply in conformity with the bidding document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods: *[insert a brief description of the Goods and Related Services]*;
- (e) **Total Price:** The total Indicative price per installation point and breakdown of price per component of deploying the bidder's proposed production count solution excluding any discounts offered in item (c) below is:

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

- (f) **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]*;
- (g) **Bid Validity Period:** Our Bid shall be valid for the period specified in **BDS 17.1** (as amended, if applicable) from the date fixed for the Bid submission deadline specified in **BDS 23.1** (as amended, if applicable), and it shall remain binding upon us, and may be accepted at any time before the expiration of that period;
- (h) **Performance Guarantee:** If our Bid is accepted, we commit to obtain a performance guarantee in accordance with the bidding document;
- (i) **One Bid per Bidder:** We are not submitting any other Bid(s) as an individual Bidder, and we are not participating in any other bid(s) as a Joint Venture member or as a subcontractor, and meet the requirements, other than Alternative Bids submitted in accordance with **ITB 19**;
- (j) **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 FBR. Further, we are not ineligible under Pakistan laws;
- (k) **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]*;
- (l) **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;
- (m) **Not Bound to Accept:** We understand that you are not bound to accept the Most Advantageous Bid or any other Bid that you may receive; and
- (n) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us, or on our behalf, engages in any type of Fraud and Corruption.

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

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

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

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

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

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

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

Bidder Information Form

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

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

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

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

Page _____ of _____ pages

1. Bidder's Name <i>[insert Bidder's legal name]</i>
2. In case of JV, legal name of each member : <i>[insert legal name of each member in JV]</i>
3. Bidder's actual or intended country of registration: <i>[insert actual or intended country of registration]</i>
4. Bidder's year of registration: <i>[insert Bidder's year of registration]</i>
5. Bidder's Address in country of registration: <i>[insert Bidder's legal address in country of registration]</i>
6. Bidder's Authorized Representative Information Name: <i>[insert Authorized Representative's name]</i> Address: <i>[insert Authorized Representative's Address]</i> Telephone/Fax numbers: <i>[insert Authorized Representative's telephone/fax numbers]</i> Email Address: <i>[insert Authorized Representative's email address]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of the legal entity named above. ☐ In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 3.4. ☐ Establishing that the Bidder is not under the supervision of the FBR
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Bidder's JV Members Information Form

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

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

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

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

Page _____ of _____ pages

1. Bidder's Name: <i>[insert Bidder's legal name]</i>
2. Bidder's JV Member's name: <i>[insert JV's Member legal name]</i>
3. Bidder's JV Member's country of registration: <i>[insert JV's Member country of registration]</i>
4. Bidder's JV Member's year of registration: <i>[insert JV's Member year of registration]</i>
5. Bidder's JV Member's legal address in country of registration: <i>[insert JV's Member legal address in country of registration]</i>
6. Bidder's JV Member's authorized representative information Name: <i>[insert name of JV's Member authorized representative]</i> Address: <i>[insert address of JV's Member authorized representative]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers of JV's Member authorized representative]</i> Email Address: <i>[insert email address of JV's Member authorized representative]</i>
7. Attached are copies of original documents of <i>[check the box(es) of the attached original documents]</i> ☐ 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.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Form of Qualification Information

- 1. Individual Bidders or Individual Members of Joint Ventures**
- 1.1 Constitution or legal status of Bidder: *[attach copy]*
 Place of registration: *[insert]*
 Principal place of business: *[insert]*
 Power of attorney of signatory of Bid: *[attach]*
- 1.2 Total annual volume of Supplies delivered *(insert period)* years, in the internationally traded currency specified in the Bid Data Sheet: *[insert]*
- 1.3 Services performed as prime Supplier on the provision of Services of a similar nature and volume over the last *(insert period)* years. The values should be indicated in the same currency used for Item 1.2 above. Also list details of work under way or committed, including expected completion date.

Project name and country	Name of PA and contact person	Type of Supplies provided and year of completion	Value of Contract
(a)			
(b)			

- 1.4 Major items of Supplier's Equipment proposed for carrying out the Services. List all information requested below. Refer also to ITB 13.3(c).

Item of equipment	Description, make, and age (years)	Condition (new, good, poor) and number available	Owned, leased (from whom?), or to be purchased (from whom?)
(a)			
(b)			

- 1.5 Qualifications and experience of key personnel proposed for administration and execution of the Contract. Attach biographical data. Refer also to ITB 13.3(d).

Position	Name	Years of experience (general)	Years of experience in proposed position
(a)			

(b)			
-----	--	--	--

1.6 Proposed sub-contracts and firms involved. Refer to GCC 18.

Sections of the Services	Value of Sub-contract	Sub-contractor (name and address)	Experience in providing similar Services
(a)			
(b)			

- 1.7 Financial reports for the last 3 years: balance sheets, profit and loss statements, auditors' reports, etc. List below and attach copies.
- 1.8 Evidence of access to financial resources to meet the qualification requirements: cash in hand, lines of credit, etc. List below and attach copies of support documents. We certify/confirm that we comply with eligibility requirements as per ITB 3 of the bidding documents.
- 1.9 Name, address, and telephone, telex, and facsimile numbers of banks that may provide references if contacted by the FBR.
- 1.10 Information regarding any litigation, current or within the last *(insert period)* years, in which the Bidder is or has been involved.

Other party(ies)	Cause of dispute	Details of litigation award	Amount involved
(a)			
(b)			

- 1.11 Information regarding Occupation Health and Safety Policy and Safety Records of the Bidder.
- 1.12 Statement of compliance with the requirements of ITB 3.4.
- 1.13 Proposed Program (service work method and schedule).

Descriptions, drawings, and charts, as necessary, to comply with the requirements of the bidding documents.

2. Joint Ventures

- 2.1 The information listed in 1.11 - 1.12 above shall be provided for each member of the joint venture.
- 2.2 The information in 1.13 above shall be provided for the joint venture.
- 2.3 Attach the power of attorney of the signatory(ies) of the Bid authorizing signature of the Bid on behalf of the joint venture.

2.4 Attach the Contract among all members of the joint venture (and which is legally binding on all members), which shows that

- (a) all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms.
- (b) one of the members will be nominated as being in-charge, authorized to incur liabilities, and receive instructions for and on behalf of any and all members of the joint venture; and
- (c) the execution of the entire Contract, including payment, shall be done exclusively with the member in charge.

3. Additional Requirements

3.1 Bidders should provide any additional information required in the Bid Data Sheet and to fulfill the requirements of ITB 12.1, if applicable.

We, the undersigned declare that

- (a) The information contained in and attached to this form is true and accurate as of the date of bid submission

Or [delete statement which does not apply]

- (b) The originally submitted pre-qualification information remains essentially correct as of date of submission

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Bidder: _____

Address: _____

Form FIN
Financial Situation and Performance

[The following table shall be filled in for the Bidder and for each member of a Joint Venture]

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

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

Joint Venture Member Name: *[insert full name]*

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

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

1. Financial data

Type of Financial information in (currency)	Historic information for previous <i>[insert number]</i> years, <i>[insert in words]</i> (amount in currency, currency, exchange rate,)				
	Year 1	Year 2	Year 3		
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activities					

2. Financial documents

The Bidder and its parties shall provide copies of financial statements for *[number]* years pursuant Section III, Qualifications Criteria and Requirements, Sub-factor 3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or in case of JV member, and not an affiliated entity (such as parent company or group member).
- (b) be independently audited or certified in accordance with local legislation.
- (c) be complete, including all notes to the financial statements.
- (d) correspond to accounting periods already completed and audited.

☐ Attached are copies of financial statements for the *[number]* years required above; and complying with the requirements.

Average Annual Turnover (Annual Sales Value)

[The following table shall be filled in for the Bidder and for each member of a Joint Venture]

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

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

Joint Venture Member Name: *[insert full name]*

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

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

Annual turnover data			
Year	Currency	Exchange rate	PKR equivalent
<i>[indicate calendar year]</i>	<i>[indicate currency]</i>		
		Average Annual Turnover *	

* Total PKR equivalent for all years divided by the total number of years.

Manufacturer's Authorization

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

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

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

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

To: *[insert complete name of FBR]*

WHEREAS

We *[insert complete name of Manufacturer]*, who are official manufacturers of *[insert type of product]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* (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 extend our full guarantee and warranty in accordance with Clause 29 of the General Conditions of Contract, with respect to the Goods offered by the above firm.

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

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

Title: *[insert title]*

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

Software List

	(select one per item)			(select one per item)	
Software Item	System Software	General-Purpose Software	Application Software	Standard Software	Custom Software

General Information Form

All individual firms and each partner of a Joint Venture that are bidding must complete the information in this form. Nationality information should be provided for all owners or Bidders that are partnerships or individually owned firms.

Where the Bidder proposes to use named Subcontractors for highly specialized components of the Information System, the following information should also be supplied for the Subcontractor(s).

1.	Name of firm	
2.	Head office address	
3.	Telephone	Contact
4.	Fax	Telex
5.	Place of incorporation / registration	Year of incorporation / registration

Nationality of beneficial owners along with shares percentage			
Name		Nationality	Share Percentage
1.			
2.			
3.			
4.			
5.			
To be completed by all owners of partnerships or individually owned firms.			

List of Proposed Subcontractors

	Item	Proposed Subcontractor	Place of Registration & Qualifications

Details of Contracts of Similar Nature and Complexity

Name of Bidder or partner of a Joint Venture
--

Use a separate sheet for each contract.

1.	Number of contract	
	Name of contract	
	Country	
2.	Name of FBR	
3.	FBR address	
4.	Nature of Information Systems and special features relevant to the contract for which the Bidding Documents are issued	
5.	Contract role (check one) ☐ Prime Supplier ☐ Management Contractor ☐ Subcontractor ☐ Partner in a Joint Venture	
6.	Amount of the total contract/subcontract/partner share (in specified currencies at completion, or at date of award for current contracts) Currency Currency Currency	
7.	Equivalent amount PKR Total contract: ____; Subcontract: ____; Partner share: ____;	
8.	Date of award/completion	
9.	Contract was completed ____ months ahead/behind original schedule (if behind, provide explanation).	
10.	Contract was completed PKR _____ equivalent under/over original contract amount (if over, provide explanation).	
11.	Special contractual/technical requirements.	
12.	Indicate the approximate percent of total contract value (and PKR amount) of Information System undertaken by subcontract, if any, and the nature of such Information System.	

Form of Bid Security

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

[Guarantor letterhead or SWIFT identifier code]

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

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

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

Date: *[Insert date of issue]*

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

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

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

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

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

- (a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant's Letter of Bid ("the Bid Validity Period"), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) has failed to sign the contract agreement, or (ii) has failed to 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 end of the Bid Validity Period.

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

[Signature(s)]

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

Form of Bid-Securing Declaration

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

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

No.: *[number of bidding process]*

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

To: *[complete name of FBR]*

We, the undersigned, declare that:

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

We accept that we will be blacklisted and henceforth cross debarred for participating in respective category of public procurement proceedings for a period of (not more than) six months, if fail to abide with a bid securing declaration, however without indulging in corrupt and fraudulent practices, if we are in breach of our obligation(s) under the Bid conditions, because we:

- (a) have withdrawn our Bid during the period of Bid validity specified in the Letter of Bid; or
- (b) having been notified of the acceptance of our Bid by the FBR during the period of Bid validity, (i) fail or refuse to sign the Contract; or (ii) fail or refuse to furnish the Performance Security (or guarantee), if required, in accordance with the ITB.

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

Name of the Bidder* _____

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

Title of the person signing the Bid _____

Signature of the person named above _____

Date signed _____ day of _____, _____

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

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

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all members to the Joint Venture that submits the Bid.]

Letter of Acceptance

[Letter head paper of the FBR]

[date]

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

This is to notify you that your Bid dated *[date]* for execution of the *[name of the Contract and identification number, as given in the Special Conditions of Contract]* for the Contract Price of the equivalent of *[amount in numbers and words]* *[name of currency]*, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by us.

We hereby confirm *[insert the name of the Appointing Authority]*, to be the Appointing Authority, to appoint the Arbitrator in case of any arisen disputes.

You are hereby informed that after you have read and return the attached draft Contract the parties to the contract shall sign the vetted contract within fourteen (14) working days.

You are hereby required to furnish the Performance Guarantee/Security in the form and the amount stipulated in the Special Conditions of the Contract within a period of fourteen (14) days after the receipt of Letter of Acceptance.

Authorized Signature:

Name and Title of Signatory:

Name of Agency:

Attachment: Contract

Copy: Appointing Authority and Supplier

SECTION VII: GENERAL CONDITIONS OF THE CONTRACT
GENERAL CONDITIONS OF THE CONTRACT (GCC)

1.	Definitions	1.1	The following words and expressions shall have the meanings hereby assigned to them:	
			a)	“Authority” means Public Procurement Regulatory Authority.
			b)	“Approval committee” means a committee comprising of the officers notified by the Board for the approval of vendors
			c)	The “Arbitrator” is the person appointed with mutual consent of both the parties, to resolve contractual disputes as provided for in the General Conditions of the Contract GCC Clause 45 hereunder.
			d)	The “Contract” means the agreement entered into between the FBR and the Supplier, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
			e)	The “Commencement Date” is the date when the Supplier shall commence execution of the contract as specified in the SCC .
			f)	“Completion” means the fulfillment of the related services by the Supplier in accordance with the terms and conditions set forth in the contract.
			g)	“Country of Origin” means the countries and territories eligible under the PPRA Rules 2004 and its corresponding Regulations as further elaborated in the SCC .
			h)	The “Contract Price” is the price stated in the Letter of Acceptance and thereafter as adjusted in accordance with the provisions of the Contract.
			i)	“Effective Contract date” is the date shown in the Certificate of Contract Commencement issued by the FBR upon fulfillment of the conditions, precedent stipulated in GCC Clause 5 .
			j)	“FBR” means the person named as FBR in the SCC and the legal successors in title to this person, procuring the Goods and related service, as named in SCC .

		k)	“Related Services” means those services ancillary to the delivery of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training, initial maintenance and other such obligations of the Supplier covered under the Contract.
		l)	“GCC” means the General Conditions of Contract contained in this section.
		m)	“Intended Delivery Date” is the date on which it is intended that the Supplier shall affect delivery as specified in the SCC .
		n)	“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
		o)	“SCC” means the Special Conditions of Contract.
		p)	“Supplier” means the individual private or government entity or a combination of the above whose Bid to perform the contract has been accepted by the FBR and is named as such in the Contract Agreement and includes the legal successors or permitted assigns of the supplier and shall be named in the SCC .
		q)	“Project Name” means the name of the project stated in SCC .
		r)	“Day” means calendar day.
		s)	“Eligible Country” means the countries and territories eligible for participation in accordance with the policies of the Federal Government.
		t)	“End User” means the organization(s) where the goods will be used, as named in the SCC .
		u)	“Origin” means the place where the Goods were mined, grown, or produced or from which the Services are supplied. Goods are produced when, through manufacturing, processing, or substantial and major assembly of components, a commercially recognized new produce results that is substantially different in basic characteristics or in purpose or utility from its components.
		v)	“Force Majeure” means an unforeseeable event which is beyond reasonable control of either Party and which makes a

			Party's performance of its obligations under the Contract impossible or so impractical as to be considered impossible under the circumstances. For the purposes of this Contract, "Force Majeure" means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party's performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances. and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.
		w)	" Specification " means the Specification of the Goods and performance of incidental services in accordance with the relevant standards included in the Contract and any modification or addition made or approved by the FBR.
		x)	The Supplier's Bid is the completed Bid document submitted by the Supplier to the FBR.
2.	Application and interpretation	2.1	These General Conditions shall apply to the extent that they are not superseded by provisions of other parts of the Contract.
		2.2	In interpreting these Conditions of Contract headings and marginal notes are used for convenience only and shall not affect their interpretations unless specifically stated; references to singular include the plural and vice versa; and masculine include the feminine. Words have their ordinary meaning under the language of the Contract unless specifically defined.

		2.3	The documents forming the Contract shall be interpreted in the following order of priority: (1) Chapter XIVBC of Sales Tax Rules, 2006 (2) Form of Contract, (3) Special Conditions of Contract, (4) General Conditions of Contract, (5) Letter of Acceptance, (6) Certificate of Contract Commencement (7) Specifications (8) Contractor's Bid, and (9) Any other document listed in the Special Conditions of Contract as forming part of the Contract.
3.	Conditions Precedent	3.1	Having signed the Contract, it shall come into effect on the date on which the following conditions have been satisfied: - a) Submission of performance guarantee in the form specified in the SCC. b) Furnishing of Advance Payment Unconditional Guarantee.
		3.2	If the Condition precedent stipulated on GCC Clause 3.1 is not met by the date specified in the SCC this contract shall not come into effect;
		3.3	If the FBR is satisfied that each of the conditions precedent in this contract has been satisfied (except to the extent waved by him, but subject to such conditions as he shall impose in respect of such waiver) he shall promptly issue to the authorized vendor a certificate of Contract commencement, which shall confirm the start date.
4.	Governing Language	4.1	The Contract and all correspondence and documents relating to the contract exchanged by the Authorized Vendor and the FBR shall be written in the language specified in SCC. Subject to GCC Clause 3.1, the version of the Contract written in the specified language shall govern its interpretation.
5.	Applicable Law and Effectiveness of the contract	5.1	The contract shall be governed and interpreted in accordance with the laws of Pakistan, unless otherwise specified in SCC.
		5.2	The Contract shall be effective from the date specified in the SCC,
6.	Country of Origin	6.1	The origin of goods and services making information systems may be distinct from the nationality of the Authorized Vendor.

7.	Scope of the Information System	7.1	Unless otherwise expressly limited in the SCC or Technical Requirements, the Authorized Vendor'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 and Finalized Project Plan
		7.2	The Authorized Vendors 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.
8.	Authorized Vendor's Responsibilities	8.1	The Authorized Vendor 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 Authorized Vendor 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.
		8.2	The Authorized Vendor 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 FBR and on the basis of information that the Authorized Vendor 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 Authorized Vendor relating to the System as at the date Seven (07) days prior to bid submission. The Authorized Vendor 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

		8.3	The Authorized Vendor shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach a mutually Agreed and Finalized Project Plan within the time schedule specified in the Implementation Schedule in the Technical Requirements Section. Failure to provide such resources, information, and decision making may constitute grounds for termination.
		8.4	The Authorized Vendor 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 FBR's Country that are necessary for the performance of the Contract, including, without limitation, visas for the Authorized Vendor's and Subcontractor's personnel and entry permits for all imported Authorized Vendor's Equipment. The Authorized Vendor shall acquire all other permits, approvals, and/or licenses that are not the responsibility of the FBR and that are necessary for the performance of the Contract.
		8.5	The Authorized Vendor shall comply with all laws in force in the FBR'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 Authorized Vendor. The Authorized Vendor shall indemnify and hold harmless the FBR 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 Authorized Vendor or its personnel, including the Subcontractors and their personnel, but without prejudice to GCC Clause 9.1. The Authorized Vendor shall not indemnify the FBR to the extent that such liability, damage, claims, fines, penalties, and expenses were caused or contributed to by a fault of the FBR.
		8.6	The Authorized Vendor 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.

		8.7	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 in a country that shall be an Eligible Country.
		8.8	The Authorized Vendor shall permit the FBR and/or persons appointed by the FBR to inspect the Authorized Vendor's offices and/or the accounts and records of the Authorized Vendor and its sub-contractors relating to the performance of the Contract, and to have such accounts and records audited by auditors.
		8.9	Other Authorized Vendor responsibilities, if any, are as stated in the SCC.
9.	FBR's Responsibility	9.1	The FBR shall ensure the accuracy of all information and/or data to be supplied by the FBR to the Authorized Vendor, except when otherwise expressly stated in the Contract.
		9.2	The FBR shall be responsible for timely provision of all resources, information, and decision making under its control that are necessary to reach an Agreed and Finalized Project Plan (pursuant to GCC Clause 15) within the time schedule specified in the Implementation Schedule in the Technical Requirements Section. Failure to provide such resources, information, and decision making may constitute grounds for Termination pursuant to GCC Clause 39.
		9.3	The FBR 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 solution.
		9.4	If requested by the Authorized Vendor, the FBR shall use its best endeavors to assist the Authorized Vendor 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 Authorized Vendor or Subcontractors or the personnel of the Authorized Vendor or Subcontractors, as the case may be, to obtain.

		9.5	In such cases where the responsibilities of specifying and acquiring or upgrading telecommunications and/or electric power services falls to the Authorized Vendor, as specified in the Technical Requirements, SCC, Agreed and Finalized Project Plan, or other parts of the Contract, the FBR shall use its best endeavors to assist the Authorized Vendor in obtaining such services in a timely and expeditious manner.
		9.6	The FBR 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 and Finalized Project Plan, except where provision of such items is explicitly identified in the Contract as being the responsibility of the Authorized Vendor. Delay by the FBR may result in an appropriate extension of the Time for Operational Acceptance, at the Authorized Vendor's discretion
		9.7	Unless otherwise specified in the Contract or agreed upon by the FBR and the Authorized Vendor, the FBR shall provide sufficient, properly qualified operating and technical personnel, as required by the Authorized Vendor to properly carry out Delivery, Pre-commissioning, Installation, Commissioning, and Operational Acceptance, at or before the time specified in the Technical Requirements Section's Implementation Schedule and the Agreed and Finalized Project Plan.
		9.8	The FBR will designate appropriate staff for the training courses to be given by the Authorized Vendor and shall make all appropriate logistical arrangements for such training as specified in the Technical Requirements, SCC, the Agreed and Finalized Project Plan, or other parts of the Contract.
		9.9	The FBR assumes primary responsibility for the Operational Acceptance Test(s) for the System, in accordance with GCC Clause 26. However, this shall not limit in any way the Authorized Vendor's responsibilities after the date of Operational Acceptance otherwise specified in the Contract.

		9.10	The FBR 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 Authorized Vendor elsewhere in the Contract.
		9.11	Other FBR responsibilities, if any, are as stated in the SCC.
10.	Performance Guarantee	10.1	The proceeds of the Performance Security (or Guarantee) shall be payable to the FBR as compensation for any loss resulting from the Authorized Vendor's failure to complete its obligations under the Contract.
		10.2	The Performance Guarantee shall be in one of the following forms: a) A bank guarantee, an irrevocable letter of credit issued by a reputable bank, or in the form provided in the Bidding Documents or another form acceptable to the FBR; or b) A cashier's or certified check
		10.3	The performance guarantee will be discharged by the FBR and returned to the Authorized Vendor not later than thirty (30) days following the date of completion of the Authorized Vendor's performance obligations under the Contract, including any warranty obligations, unless otherwise specified in SCC.
11.	Taxes and Duties	11.1	In case of a foreign Authorized Vendor, responsibility of taxes and duties will be agreed upon between the Vendor and Manufacturer.
		11.2	If any tax exemptions, reductions, allowances or privileges may be available to the Authorized Vendor in Pakistan the FBR shall use its best efforts to enable the Authorized Vendor to benefit from any such tax savings to the maximum allowable extent.
		11.3	A local Authorized Vendor shall be entirely responsible for all taxes, duties, license fees, etc., incurred until the supply of the information system to the FBR.
12.	Copy Rights	12.1	The Intellectual Property Rights in all Standard Software and Standard Materials shall remain vested in the owner of such rights.

		12.2	The FBR agrees to restrict use, copying, or duplication of the Standard Software and Standard Materials in accordance with GCC Clause 16, except those additional copies of Standard Materials may be made by the FBR for use within the scope of the project of which the System is a part, in the event that the Authorized Vendor does not deliver copies within thirty (30) days from receipt of a request for such Standard Materials
		12.3	The FBR'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 as may be otherwise specified in the SCC
		12.4	As applicable, the FBR's and Authorized Vendor's rights and obligations with respect to Custom Software or elements of the Custom Software, including any license agreements, and with respect to Custom Materials or elements of the Custom Materials, are specified in the SCC. Subject to the SCC, the Intellectual Property Rights in all Custom Software and Custom Materials specified in 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 FBR. The Authorized Vendor shall do and execute or arrange for the doing and executing of each necessary act, document, and thing that the FBR may consider necessary or desirable to perfect the right, title, and interest of the FBR in and to those rights. In respect of such Custom Software and Custom Materials, the Authorized Vendor shall ensure that the holder of a moral right in such an item does not assert it, and the Authorized Vendor shall, if requested to do so by the FBR, and where permitted by applicable law, ensure that the holder of such a moral right waives it.
		12.5	The parties shall enter into such (if any) escrow arrangements in relation to the Source Code to some or all of the Software as are specified in the SCC and in accordance with the SCC

13.	Software License Agreements	13.1	Except to the extent that the Intellectual Property Rights in the Software vest in the FBR, the Authorized Vendor hereby grants to the FBR 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 39; (iii) valid throughout the territory of the FBR's Country (or such other territory as specified in the SCC); and (iv) subject to additional restrictions (if any) as specified in the SCC. 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 Authorized Vendor'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) as specified in the SCC, 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 Authorized Vendor's bid specifies a class of computer to which the license is restricted and unless the Authorized Vendor agrees otherwise in writing, 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;
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			(iv) reproduced for safekeeping or backup purposes; (v) customized, adapted, or combined with other computer software for use by the FBR, 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) as specified in the SCC, disclosed to, and reproduced for use by, support service Authorized Vendors and their subcontractors, (and the FBR may sublicense such persons to use and copy for use the Software) 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) disclosed to, and reproduced for use by, the FBR and by such other persons as are specified in the SCC (and the FBR may sublicense such persons to use and copy for use the Software), subject to the same restrictions as are set forth in this Contract.
		13.2	The Standard Software may be subject to audit by the Vendor, in accordance with the terms specified in the SCC , to verify compliance with the above license agreements.
14.	Confidential Information	14.1	Except if otherwise specified in the SCC, the "Receiving Party" (either the FBR or the Authorized Vendor) 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.
		14.2	For the purposes of GCC Clause 14.1, the Authorized Vendor is also deemed to be the Receiving Party of Confidential Information generated by the Authorized Vendor itself in the course of the performance of its obligations under the Contract and relating to the businesses, finances, Authorized Vendors, employees, or other contacts of the FBR or the FBR's use of the System.

		14.3	Notwithstanding GCC Clauses 14.1 and 14.2: (a) the Authorized Vendor may furnish to its Subcontractor Confidential Information of the FBR to the extent reasonably required for the Subcontractor to perform its work under the Contract; and (b) the FBR may furnish Confidential Information of the Authorized Vendor: (i) to its support service Authorized Vendors 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 14 as if that person were party to the Contract in place of the Receiving Party.
		14.4	The FBR shall not, without the Authorized Vendor's prior written consent, use any Confidential Information received from the Authorized Vendor for any purpose other than the operation, maintenance and further development of the System. Similarly, the Authorized Vendor shall not, without the FBR's prior written consent, use any Confidential Information received from the FBR for any purpose other than those that are required for the performance of the Contract.
		14.5	The obligation of a party under GCC Clauses 14.1 through 14.4 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.

		14.6	The above provisions of this GCC Clause 14 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.
		14.7	The provisions of this GCC Clause 14 shall survive the termination, for whatever reason, of the Contract for three (3) years or such longer period as may be specified in the SCC.
15.	Project Plan	15.1	In close cooperation with the FBR and based on the Preliminary Project Plan included in the Authorized Vendor's bid, the Authorized Vendor 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.
		15.2	The Authorized Vendor shall formally present to the FBR the Project Plan in accordance with the procedure specified in the SCC
		15.3	If required, the impact on the Implementation Schedule of modifications agreed during finalization of the Agreed and Finalized Project Plan shall be incorporated in the Contract by amendment, in accordance with GCC Clauses 33.
		15.4	The Authorized Vendor shall undertake to supply, install, test, and commission the System in accordance with the Agreed and Finalized Project Plan and the Contract
		15.5	The Progress and other reports specified in the SCC shall be prepared by the Authorized Vendor and submitted to the FBR in the format and frequency specified in the Technical Requirements.
16.	Sub-contracting	16.1	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 FBR. If no Subcontractors are listed for an item, the Authorized Vendor shall prepare a list of Subcontractors it considers qualified and wishes to be added to the list for such items. The Authorized Vendor may from time to time propose additions to or deletions from any such list. The Authorized Vendor shall submit any such list or any modification to the list to the FBR for its approval in sufficient time so as not to impede the progress of work on the System. The FBR shall not withhold such approval unreasonably. Such approval by the FBR of a Subcontractor(s) shall not relieve the Authorized Vendor from any of its obligations, duties, or responsibilities under the Contract

		16.2	The Authorized Vendor may, at its discretion, select and employ Subcontractors for such critical items from those Subcontractors listed pursuant to GCC Clause 16.1. If the Authorized Vendor wishes to employ a Subcontractor not so listed, or subcontract an item not so listed, it must seek the FBR's prior approval under GCC Clause 16.3.
		16.3	For items for which pre-approved Subcontractor lists have not been specified in Appendix to the Contract Agreement, the Authorized Vendor may employ such Subcontractors as it may select, provided: (i) the Authorized Vendor notifies the FBR in writing at least twenty-eight (28) days prior to the proposed mobilization date for such Subcontractor; and (ii) by the end of this period either the FBR has granted its approval in writing or fails to respond. The Authorized Vendor shall not engage any Subcontractor to which the FBR has objected in writing prior to the end of the notice period. The absence of a written objection by the FBR 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 FBR of Subcontractors not listed in the Contract Agreement, nothing in this Clause, however, shall limit the rights and obligations of either the FBR or Authorized Vendor as they are specified in GCC Clauses 16.1 and 16.2, in the SCC, or in Appendix of the Contract Agreement.
17.	Procurement and Delivery	17.1	Subject to related FBR's responsibilities pursuant to GCC Clause 9, the Authorized Vendor shall manufacture or procure and transport all the Information Technologies, Materials, and other Goods in an expeditious and orderly manner to the Project Site
		17.2	Delivery of the Information Technologies, Materials, and other Goods shall be made by the Authorized Vendor in accordance with the Technical Requirements
		17.3	Early or partial deliveries require the explicit written consent of the FBR, which consent shall not be unreasonably withheld.
18.	Transportation	18.1	The Authorized Vendor 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 FBR's instructions to the Authorized Vendor.

19.	Documents	19.1	Unless otherwise specified in the SCC, the Authorized Vendor will provide the FBR with shipping and other documents, as specified below; (i) For Goods supplied from outside the FBR's Country: Upon shipment, the Authorized Vendor shall notify the FBR and the insurance company contracted by the Authorized Vendor to provide cargo insurance by telex, cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Authorized Vendor shall promptly send the following documents to the FBR by mail or courier, as appropriate, with a copy to the cargo insurance company: (a) two copies of the Authorized Vendor's invoice showing the description of the Goods, quantity, unit price, and total amount; (b) usual transportation documents; (c) certificate(s) of origin; and (d) estimated time and point of arrival in the FBR's Country and at the site. (ii) For Goods supplied locally (i.e., from within the FBR's country): Upon shipment, the Authorized Vendor shall notify the FBR by telex, cable, facsimile, electronic mail, or EDI with the full details of the shipment. The Authorized Vendor shall promptly send the following documents to the FBR by mail or courier, as appropriate: (a) two copies of the Authorized Vendor's invoice showing the Goods' description, quantity, unit price, and total amount; (b) delivery note, railway receipt, or truck receipt; (c) certificate(s) of origin; and (d) estimated time of arrival at the site.
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			(iii) Customs Clearance (a) The FBR will bear responsibility for, and cost of, customs clearance into the FBR's country in accordance the particular Incoterm(s) used for Goods supplied from outside the FBR's country in the Price Schedules referred to by Article 2 of the Contract Agreement. (b) At the request of the FBR, the Authorized Vendor will make available a representative or agent during the process of customs clearance in the FBR's country for goods supplied from outside the FBR's country. In the event of delays in customs clearance that are not the fault of the Authorized Vendor: (c) the Authorized Vendor shall be entitled to an extension in the Time for Achieving Operational Acceptance, pursuant to GCC Clause 24; the Contract Price shall be adjusted to compensate the Authorized Vendor for any additional storage charges that the Authorized Vendor may incur as a result of the delay.
20.	Product Upgrades	20.1	At any point during performance of the Contract, should technological advances be introduced by the Authorized Vendor for Information Technologies originally offered by the Authorized Vendor in its bid and still to be delivered, the Authorized Vendor shall be obligated to offer to the FBR the latest versions of the available Information Technologies having equal or better performance or functionality at the same or lesser unit prices.
		20.2	At any point during performance of the Contract, for Information Technologies still to be delivered, the Authorized Vendor will also pass on to the FBR any additional and/or improved support and facilities that it offers to other clients of the Authorized Vendor in the FBR's Country.

		20.3	During performance of the Contract, the Authorized Vendor shall offer to the FBR 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 Authorized Vendor to other clients of the Authorized Vendor in the FBR'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 Authorized Vendor in the Recurrent Costs tables in its bid.
21.	Inspections and Test	21.1	The FBR or its representative shall have the right to inspect and /or to test the components of the system to confirm their conformity to the Contract specifications at no extra cost to the FBR.
		21.2	The inspections and tests may be conducted on the premises of the Paper and Paperboard Sector production unit or its subcontractor(s), at point of delivery, and/or at the Goods' final destination. If conducted on the premises of the Authorized Vendor or its subcontractor(s), all reasonable facilities and assistance, including access to drawings and production data, shall be furnished to the inspectors at no charge to the FBR.
		21.3	Should any inspected or tested component fail to conform to the Specifications, the FBR may reject the component, and the Authorized Vendor shall replace the rejected component to meet specification requirements free of cost to the FBR.
		21.4	The FBR's right to inspect, test and, where necessary, reject component after deployment of shall in no way be limited or eared by reason of the component having previously been inspected, tested, and passed by the FBR.
		21.5	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, starting with referral of the matter to the Adjudicator in case an Adjudicator is included and named in the Contract Agreement.

22.	Installation of the System	22.1	After the purchase order, as soon as the System, or any Subsystem, has, in the opinion of the Authorized Vendor, been delivered, pre-commissioned, and made ready for Commissioning and Operational Acceptance Testing in accordance with the Technical Requirements, the SCC, the Agreed and Finalized Project Plan, and the Proof of Concept, the Vendor shall so notify the FBR in writing
		22.2	The Project Manager shall, within fourteen (14) days after receipt of the Authorized Vendor's notice under GCC Clause 22.1, either issue an Installation Certificate in the form specified in the Sample 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 24.1), has achieved Installation by the date of the Authorized Vendor's notice under GCC Clause 22.1, or notify the Authorized Vendor 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 Authorized Vendor shall use all reasonable endeavors to promptly remedy any defect and/or deficiencies that the Project Manager has notified the Authorized Vendor of. The Authorized Vendor shall then promptly carry out retesting of the System or Subsystem and, when in the Authorized Vendor's opinion the System or Subsystem is ready for Commissioning and Operational Acceptance Testing, notify the FBR in writing, in accordance with GCC Clause 22.1. The procedure set out in this GCC Clause 22.2 shall be repeated, as necessary, until an Installation Certificate is issued.
		22.3	If the Project Director fails to issue the Installation Certificate and fails to inform the Authorized Vendor of any defects and/or deficiencies within fourteen (14) days after receipt of the Authorized Vendor's notice under GCC Clause 22.1, or if the FBR 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 Authorized Vendor's notice or repeated notice, or when the FBR put the System into production operation, as the case may be.

23.	Commissioning	23.1	Commissioning of the System (or Subsystem if specified pursuant to the SCC for GCC Clause 24.1) shall be commenced by the Authorized Vendor: (a) immediately after the Installation Certificate is issued by the Project Director, pursuant to GCC Clause 22.2; or (b) as otherwise specified in the Technical Requirement or the Agreed and Finalized Project Plan; or (c) immediately after Installation is deemed to have occurred, under GCC Clause 22.3.
		23.2	The FBR shall supply the operating and technical personnel and all materials and information reasonably required to enable the Authorized Vendor 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
24.	Operational Acceptance Tests	24.1	The Operational Acceptance Tests (and repeats of such tests) shall be the primary responsibility of the FBR (in accordance with GCC Clause 9.9), but shall be conducted with the full cooperation of the Authorized Vendor during Commissioning of the System (or major components or Subsystem[s] if specified in the SCC and supported by the Technical Requirements), 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 Authorized Vendor's bid, including, but not restricted to, the functional and technical performance requirements. The Operational Acceptance Tests during Commissioning will be conducted as specified in the SCC, the Technical Requirements and/or the Agreed and Finalized Project Plan. At the FBR'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.

		24.2	If for reasons attributable to the FBR, the Operational Acceptance Test of the System (or Subsystem[s] or major components, pursuant to the SCC for GCC Clause 24.1) cannot be successfully completed within the period specified in the SCC, from the date of Installation or any other period agreed upon in writing by the FBR and the Authorized Vendor, the Authorized Vendor 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 and Finalized Project Plan.
25.	Operational Acceptance	25.1	Subject to GCC Clause 25.4 (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 and Finalized 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 FBR within the period from the date of Installation or any other agreed-upon period as specified in GCC Clause 24.2 above; or c) the FBR has put the System into operation or use for sixty (60) consecutive days. If the System is put into operation or use in this manner, the Authorized Vendor shall notify the FBR and document such use
		25.2	At any time after any of the events set out in GCC Clause 25.1 have occurred, the Authorized Vendor may give a notice to the Project Director requesting the issue of an Operational Acceptance Certificate.
		25.3	After consultation with the FBR, and within fourteen (14) days after receipt of the Authorized Vendor's notice, the Project Director shall: (a) issue an Operational Acceptance Certificate; or (b) notify the Authorized Vendor 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 25.1 (b) arises.

		25.4	The Authorized Vendor 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 Authorized Vendor of. Once such remedies have been made by the Authorized Vendor, the Authorized Vendor shall notify the FBR, and the FBR, with the full cooperation of the Authorized Vendor, 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 Authorized Vendor shall notify the FBR of its request for Operational Acceptance Certification, in accordance with GCC Clause 25.3. The FBR shall then issue to the Authorized Vendor the Operational Acceptance Certification in accordance with GCC Clause 25.3 (a), or shall notify the Authorized Vendor of further defects, deficiencies, or other reasons for the failure of the Operational Acceptance Test. The procedure set out in this GCC Clause 25.4 shall be repeated, as necessary, until an Operational Acceptance Certificate is issued.
		25.5	If the System or Subsystem fails to pass the Operational Acceptance Test(s) in accordance with GCC Clause 24.1, then either: (a) the FBR may consider terminating the Contract, pursuant to GCC Clause 39; or (b) if the failure to achieve Operational Acceptance within the specified time period is a result of the failure of the FBR to fulfill its obligations under the Contract, then the Authorized Vendor shall be deemed to have fulfilled its obligations with respect to the relevant technical and functional aspects of the Contract.
		25.6	If within fourteen (14) days after receipt of the Authorized Vendor's notice the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Authorized Vendor in writing of the justifiable reasons why the Project Director has not issued the Operational Acceptance Certificate, the System or Subsystem shall be deemed to have been accepted as of the date of the Authorized Vendor's said notice

26.	Partial Acceptance	26.1	If so specified in the SCC for GCC Clause 24.1, 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 26.2
		26.2	The issuance of Operational Acceptance Certificates for individual major components or Subsystems pursuant to GCC Clause 26.1 shall not relieve the Authorized Vendor of its obligation to obtain an Operational Acceptance Certificate for the System as an integrated whole (if so specified in the SCC for GCC 25.1) once all major components and Subsystems have been supplied, installed, tested, and commissioned
		26.3	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 Authorized Vendor shall, however, use all reasonable endeavors to promptly remedy any defects or deficiencies in such minor components detected by the FBR or Authorized Vendor.
27.	Warranty/ Defect Liability Period	27.1	This 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 remain valid for a period specified in the SCC.
		27.2	The FBR shall promptly notify the Authorized Vendor in writing or in electronic forms that provide record of the content of communication of any claims arising under this warranty.

27.		27.3	Upon receipt of notice during the period of approval, the Authorized Vendor shall promptly or within the period specified in the SCC, in consultation and agreement with the FBR regarding appropriate remedying of the defects, and at its sole cost, repair, replace, or otherwise make good (as the Authorized Vendor 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 Authorized Vendor shall remain the property of the Authorized Vendor
		27.4	If the Authorized Vendor, having been notified, fails to remedy the defect(s) within the period specified in SCC, the FBR may proceed to take such remedial action as may be necessary, at the Authorized Vendor's risk and expense and without prejudice to any other rights which the FBR may have against the Authorized Vendor under the Contract.
28.	Intellectual Property Rights Indemnity	28.1	The Authorized Vendor shall indemnify and hold harmless the FBR 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 FBR 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 Authorized Vendor 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 Authorized Vendor 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 FBR's breach of GCC Clause 28.2.

		28.2	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 Authorized Vendor, where the infringement arises because of such association or combination and not because of use of the System in its own right.
		28.3	Such indemnities shall also not apply if any claim of infringement: (a) is asserted by a parent, subsidiary, or affiliate of the FBR's organization; (b) is a direct result of a design mandated by the FBR's Technical Requirements and the possibility of such infringement was duly noted in the Authorized Vendor's Bid; or (c) results from the alteration of the System, including the Materials, by the FBR or any persons other than the Authorized Vendor or a person authorized by the Authorized Vendor
29.	Insurance	29.1	Insurance details are to be agreed upon between the vendor and manufacturer
30.	Limitation of Liability	3201	Provided the following does not exclude or limit any liabilities of either party in ways not permitted by applicable law: (a) the Authorized Vendor shall not be liable to the FBR, 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 Authorized Vendor to pay liquidated damages to the FBR; and (b) the aggregate liability of the Authorized Vendor to the FBR, 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 Authorized Vendor to indemnify the FBR with respect to intellectual property rights infringement

31.	Related Services	31.1	The Authorized Vendor may be required to provide any or all of the following services, including additional services, if any, specified in SCC: - a.) Performance or supervision of on-site assembly, Installation Commissioning and/or start-up of the supplied Goods; - b.) Furnishing of tools required for assembly and/or maintenance of the supplied Goods; - c.) Furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; - d.) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Authorized Vendor of any warranty obligations under this Contract; and - e.) Training of the FBR's personnel, at the Authorized Vendor's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the Goods supplied and Services Provided.
32.	Change Orders	32.1	The FBR may at any time, by a written order given to the Authorized Vendor, make changes within the general scope of the Contract in any one or more of the following: a) Drawings, designs, or specifications; b) The Services to be provided by the Authorized Vendor.
		32.2	If any such change causes an increase or decrease in the cost of, or the time required for, the Authorized Vendor's performance of any provisions under the Contract an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Authorized Vendor for adjustment under this clause must be asserted within thirty (30) days from the date of the Authorized Vendor's receipt of the FBR change order.
33.	Contract Amendments	33.1	Subject to GCC Clause 32, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

34.	Assignment	34.1	Neither the FBR nor the Authorized Vendor shall assign, in whole or in part, obligations under this Contract, except with the prior written consent of the other party.
35.	Sub-contracts	35.1	The Authorized Vendor shall consult the FBR in the event of subcontracting under this contract if not already specified in the Bid. Subcontracting shall not alter the Authorized Vendor's obligations.
36.	Delays in the Supplier's Performance	36.1	Delivery of the Goods and performance of Services making Information system shall be made by the Authorized Vendor in accordance with the time schedule prescribed by the FBR in the Schedule of Requirements.
		36.2	If at any time during performance of the Contract, the Authorized Vendor or its subcontractor(s) should encounter conditions impeding timely delivery of the Goods and performance of Services, the Authorized Vendor shall promptly notify the FBR in writing or in electronic forms that provide record of the content of communication of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Authorized Vendor's notice, the FBR shall evaluate the situation and may at its discretion extend the Authorized Vendor's time for performance, with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of Contract.
		36.3	Except as provided under GCC Clause 39 , a delay by the Authorized Vendor in the performance of its delivery obligations shall render the Authorized Vendor liable to the imposition of liquidated damages pursuant to GCC Clause 37 , unless an extension of time is agreed upon pursuant to GCC Clause 36.2 without the application of liquidated damages.
37.	Liquidated Damages	37.1	Subject to GCC Clause 39 , if the Authorized Vendor fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the FBR shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC until actual delivery or performance, up to a maximum deduction of the performance security (or guarantee) specified in SCC . Once the said maximum is reached, the FBR may consider termination of the Contract pursuant to GCC Clause 38 .

38.	Termination for Default	38.1	The FBR or the Authorized Vendor, without prejudice to any other remedy for breach of Contract, by written notice of default sent to the concerned party may terminate the Contract if the other party causes a fundamental breach of the Contract.
		38.2	Fundamental breaches of Contract shall include, but shall not be limited to the following: a) the Authorized Vendor fails to deliver any or all of the Goods within the period(s) specified in the Contract, or within any extension thereof granted by the FBR or b) the Authorized Vendor fails to perform any other obligation(s) under the Contract; c) Authorized Vendor's failure to submit performance security (or guarantee) within the time stipulated in the SCC; d) the Authorized Vendor has abandoned or repudiated the contract. e) the FBR or the Authorized Vendor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation; f) the FBR gives Notice that the barcode/Rfid scanning, industrial sensors, camera and video analytics, counting system or any other solution deployed is with a defect is a fundamental breach of Contract and the Authorized Vendor fails to correct it within a reasonable period of time determined by the FBR; and g) if the FBR determines, based on the reasonable evidence, that the Authorized Vendor has engaged in corrupt, coercive, collusive, obstructive or fraudulent practices, in competing for or in executing the Contract.
		38.3	For the purpose of this clause: “Corrupt and Fraudulent Practice” means the practices as described in Rule-2 (1) (f) of Public Procurement Rules-2004.

		38.4	In the event the FBR terminates the Contract in whole or in part, pursuant to GCC Clause 24.1 , the FBR may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Authorized Vendor shall be liable to the FBR for any excess costs for such similar Goods or Services. However, the Authorized Vendor shall continue performance of the Contract to the extent not terminated.
39.	Termination for Force Majeure	39.1	Notwithstanding the provisions of GCC Clauses 36, 37, and 38, neither Party shall have any liability or be deemed to be in breach of the Contract for any delay nor is other failure in performance of its obligations under the Contract, if such delay or failure is a result of an event of Force Majeure. For purpose of this clause, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable, and its origin is not due to negligence or lack of care on the part of a Party, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, earthquake, fire, explosion, storm, flood, epidemics, or other adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent
		39.2	If a Party (hereinafter referred to as “the Affected Party”) is or will be prevented from performing its substantial obligation under the contract by Force Majeure, it shall give a Notice to the other Party giving full particulars of the event and circumstance of Force Majeure in writing or in electronic forms that provide record of the content of communication of such condition and the cause thereof. Unless otherwise directed by the FBR in writing or in electronic forms that provide record of the content of communication, the Authorized Vendor shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

40.	Termination for Insolvency	40.1	The FBR may at any time terminate the Contract by giving written notice to the Authorized Vendor if the Authorized Vendor becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Authorized Vendor, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the FBR.
41.	Termination for Convenience	41.1	The FBR, by written notice sent to the Authorized Vendor, may terminate the contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the FBR's convenience, the Contract is terminated, and the date upon which such termination becomes effective.
42.	Transfer of Ownership	42.1	The ownership of the Information Technologies and other Goods shall be transferred to the FBR at the time of Deployment or otherwise under terms that may be agreed upon and specified in the Contract Agreement.
		42.2	Ownership and the terms of usage of the Software and Materials supplied under the Contract shall be governed by GCC Clause 12 (Copyright) and any elaboration in the Technical Requirements
43.	Disputes Resolution	43.1	In the event of any dispute arising out of this contract, either party shall issue a notice of dispute to settle the dispute amicably. The parties hereto shall, within twenty-eight (28) days from the notice date, use their best efforts to settle the dispute amicably through mutual consultations and negotiation. Any unsolved dispute may be referred by either party to an arbitrator that shall be appointed by mutual consent of the both parties.
		43.2	After the dispute has been referred to the arbitrator, within 30 days, or within such other period as may be proposed by the Parties, the Arbitrator shall give its decision. The rendered decision shall be binding to the Parties.
44.	Procedure for Disputes Resolution	44.1	The arbitration shall be conducted in accordance with the arbitration procedure published by the Institution named and, in the place, shown in the SCC.
		44.2	The rate of the Arbitrator's fee and administrative costs of arbitration shall be borne equally by the Parties. The rates and costs shall be in accordance with the rules of the Appointing Authority. In conducting arbitration to its finality each party shall bear its incurred costs and expenses.

		44.3	The arbitration shall be conducted in accordance with the arbitration procedure published by the institution named and, in the place, shown in the SCC .
45.	Replacement of Arbitrator	45.1	Should the Arbitrator resign or die, or should the FBR and the Authorized Vendor agree that the Arbitrator is not functioning in accordance with the provisions of the contract, a new Arbitrator shall be appointed by mutual consent of the both parties.
46.	Notices	46.1	Any notice given by one party to the other pursuant to this Contract shall be sent to the other party in writing or in electronic forms that provide record of the content of communication and confirmed in writing or in electronic forms that provide record of the content of communication to the other party's address specified in SCC .
		46.2	A notice shall be effective when delivered or on the notice's effective date, whichever is later.

SECTION VIII: SPECIAL CONDITIONS OF THE CONTRACT (SCC)

Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The corresponding clause number of the GCC is indicated in parentheses.

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
Definitions (GCC 1)		
1.	1.1(j)	The FBR is: Federal Board of Revenue
2.	1.1	The Vendor is an Authorized Vendor The Client / Manufacturer is Taxpayer – Paper and Paperboard Sector units
3.	1.1(q)	The title of the subject procurement or The Project is: Authorized vendors for installation and maintenance of production monitoring system in the paper and paperboard sector
Governing Language (GCC 4)		
4.	4.1	The Governing Language shall be: <i>English</i>
Applicable Law (GCC 5)		
5.	5.1	The Applicable Law shall be: Laws of the <i>Land</i>
	5.2	The Contract shall be effective from the date <i>of Acceptance</i>
Country of Origin (GCC 6)		
6.	6.1	Country of Origin is <i>PAKISTAN</i>

Scope of the System (GCC 7)		
7.	7.1	The scope of the system is to implement an end-to-end Digital Production Monitoring System (DPMS), comprising software, hardware, industrial automation interfaces, communication infrastructure, and system integration, utilizing one or more of the following technologies, as appropriate: PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, encoder-based length measurement, reel diameter and width measurement, barcode/QR code/Rfid-based traceability, industrial cameras, video analytics, image-based recognition, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. The system shall monitor, measure, verify, record, and report production, inventory movements, and dispatches across designated paper and paperboard manufacturing facilities in Pakistan. It shall accurately capture production quantities of finished products, including reels, rolls, sheets, bundles, reams, cartons, packs, pallets, or other applicable product forms, through direct or indirect measurement techniques, establish complete production traceability, support material balance verification, and prevent underreporting or misreporting of production by taxpayers/operators.
Vendor Responsibilities (GCC 8)		
8.	8.1	The vendor shall have the following additional responsibilities: Pre-Award Viability Test: • The vendor must conduct a viability and capability demonstration test, during both stage one and stage two, at a designated FBR-approved installation point to validate that the proposed solution meets the operational and technical specifications. These tests will form a prerequisite for final award approval. • Certification must be completed by an FBR-approved inspection body or technical evaluation committee. • The results of the evaluation, including detailed compliance and performance metrics, shall be submitted to FBR for

		review and approval before proceeding further in the contract execution process. Compliance with Security Standards: - The vendor shall submit a security certificate ensuring that the production monitoring and counting system/all IT equipment provided is free from any hidden backdoors, vulnerabilities, or other exploitable flaws. This certificate should be issued by an accredited organization or certified third party. Evaluation Certification: - The Vendor shall ensure that all IT/security solutions and equipment provided are certified through a formal evaluation process as per the required specifications outlined by FBR. This certification must be submitted at the time of system acceptance. Inspection and Acceptance: - The vendor shall facilitate inspection, testing, verification, and acceptance of all supplied hardware, software, communication equipment, integrations, and associated components by the designated FBR team to ensure compliance with the technical specifications, functional requirements, interoperability requirements, cybersecurity requirements, and performance criteria specified in this RFP. This shall include, but not be limited to: - Production monitoring devices, including PLC/SCADA interfaces, machine controllers, barcode/QR code/Rfid readers, industrial sensors, load cells, weighing systems, encoder-based measurement devices, industrial cameras, video analytics equipment, and other approved production monitoring technologies. - Industrial PC, Industrial Edge Gateway, and local data acquisition equipment. - Industrial networking equipment, including managed Ethernet switches, industrial firewall/router, VPN devices, communication gateways, and associated networking components. - Peripherals including monitor, keyboard, mouse, and other operator interface devices.
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		○ Power Supply Source (PSS), Uninterruptible Power Supply (UPS), industrial power distribution equipment, and electrical control cabinet. ○ Electrical cabinet ○ Connectivity to server ○ Application with a user-friendly interface PTA-Approved Equipment: • If applicable, all equipment, products, or solutions proposed by the vendor must be PTA-approved and comply with local telecommunication standards. Adherence to Specifications: • The vendor shall adhere to the detailed specifications provided by FBR for all system components. The specifications include, but are not limited to: ○ Production monitoring accuracy of a minimum of 99% across the total paper and paperboard sector production, measured against verified production records, weighing systems, or approved reference measurements; ○ Minimum production monitoring capacity aligned with the maximum design throughput and peak operating capacity of the paper and paperboard manufacturing facility in Pakistan, ensuring continuous acquisition, processing, transmission, and storage of production data without loss, duplication, or degradation. The proposed solution may comprise PLC/SCADA integration, machine interfaces, industrial sensors, load cells, weighing systems, barcode/QR code/RFID devices, industrial cameras, video analytics, or other approved technologies; ○ Required storage capacities for local servers, NVRs (where video analytics is deployed), and centralized data repositories; ○ Integration of local and remote servers with internet-based applications and dashboards for centralized monitoring. System Integrity, FBR Access and Non-Interference: The vendor shall not disable, suspend, bypass, or degrade the production monitoring, data acquisition, or data transmission functions of the System, in whole or in part, and shall not act on any
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		request or instruction from the taxpayer or manufacturer to do so, except with the prior written approval of the FBR. The FBR shall have direct, read-only access at all times to the System's configuration, product master and measurement mapping, calibration settings, audit and event logs, and live system and device status, without dependence on the vendor or the taxpayer.
FBR's Responsibilities (GCC 9)		
9.	9.1	The FBR shall have the following additional responsibilities: • Ensure site access for Proof of Concept (POC) testing to be conducted by the Vendor during both Stage 1 and Stage 2 of the procurement process. • Ensure site access for installation, integration, testing, commissioning, and operationalization of the Digital Production Monitoring System (DPMS), including all associated hardware, software, industrial automation interfaces, communication infrastructure, and system components. The solution may comprise PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, encoder-based length measurement, reel diameter and width measurement, barcode/QR code/Rfid-based traceability, industrial cameras, video analytics, image-based recognition, utility monitoring, or any other technically suitable solution proposed by the Vendor and approved by the FBR. • Review and approve the Vendor's submitted system architecture, implementation methodology, integration design, hardware specifications, software specifications, network topology, cybersecurity controls, deployment plans, and technical documentation in a timely manner. • Facilitate coordination with the designated paper and paperboard manufacturing facilities to enable site surveys, equipment installation, testing, commissioning, calibration, user acceptance testing, and operational verification. • Designate authorized personnel for inspection, acceptance testing, operational verification, and coordination throughout the implementation and warranty periods.

		Assign a focal point for vendor coordination and project communication.
Price		
10.		The final pricing terms and conditions will be agreed upon between the Manufacturer and the Vendor. To ensure affordability and ease of adoption, vendors may offer flexible payment structures, including: - Phased or instalment-based payments to reduce the financial burden on taxpayers. - Competitive pricing and potential discounts for long-term commitments. - Flexible terms that accommodate affordability without compromising system integrity.
Payment		
11.		Payment for Goods supplied from abroad: The payment terms and conditions for goods supplied from abroad will be agreed upon between the manufacturer and the vendor
12.		Payment for Goods and Services supplied from within Pakistan: The payment terms and conditions for goods from supplied within Pakistan will be agreed upon between the manufacturer and the vendor
13.		The overall pricing terms and conditions will be agreed upon between the manufacturer and the vendor
Performance Guarantee (GCC 10)		
14.	10.1	The amount of performance guarantee, shall be PKR 5,000,000
15.	10.4	After delivery and acceptance of the Information System, the Performance Guarantee shall be withheld during the period of

		authorization to cover the Authorized Vendor's warranty obligations in accordance with GCC Clause 27.
Taxes and Duties (GCC 11)		
16.	11.	The quoted rates shall be inclusive of all applicable taxes that will be administered
Copy Rights (GCC 12)		
17.	12.3	FBR may assign, license, or otherwise voluntarily transfer its contractual rights to use the Standard Software or elements of the Standard Software, without the Authorized Vendor's prior written consent, under the following circumstances: FBR will be the sole owner of all the customized software, its components, and associated materials, with unrestricted rights to use, modify, and integrate these into its systems. However, the vendor may not transfer, assign, or sublicense proprietary elements, middleware, or any other components in any circumstance
18.	12.4	FBR will be the sole Owner for all the customized software or its components and materials and have all the rights on the system.
19.	12.5	No software escrow contract is required for the execution of the Contract
Software License Validity (GCC 13)		
20.	13.1 (a)(iii)	The Standard Software license shall be valid throughout the territory of Pakistan or any region administered by the federal government.
21.	13.1 (a)(iv)	Use of the software shall be subject to the following additional restrictions: none.
22.	13.1(b)(ii)	The Software license shall permit the Software to be used or copied for use or transferred to a replacement computer
23.	13.1(b)(vii))	The Software license shall permit the Software to be disclosed to and reproduced for use (including a valid sublicense) by support service Authorized Vendors or their subcontractors, exclusively for such Authorized Vendors or subcontractors in the performance of their support service contracts, subject to the same restrictions set forth in this Contract.

24.	13.1(b)(vii))	In addition to the persons specified in GCC Clause 11.1 (b) (vi), the Software may be disclosed to, and reproduced for use by FBR or its subsidiary subject to the same restrictions as are set forth in this Contract.
Confidential Information (GCC 14)		
25.	14.1	There are no modifications to the confidentiality terms expressed in GCC Clause 14.1
26.	14.7	The provisions of this GCC Clause 14 shall survive the termination, for whatever reason, of the Contract for the period specified in the GCC
Project Plan (GCC 15)		
27.	15.1	The Project Plan submitted by the Authorized Vendor shall comprehensively address the following subjects for barcode/RFID scanning, video analytics, sensors, or any alternative solution proposed by the vendor and approved by FBR: 1. Project Organization and Management Plan ○ Define the roles, responsibilities, and governance structure for effective project execution. ○ Include escalation pathways and points of contact for smooth communication and issue resolution. 2. Equipment Details ○ Detailed specifications, quantities, and brands of all equipment being used to deploy the system (including hardware and software). ○ Indicative price per installation point and breakdown of price per component of deploying the bidder's proposed production count solution 3. Delivery and Installation Plan ○ Detailed implementation schedule and logistics plan for the delivery, installation, integration, testing, commissioning, and operationalization of all components of the proposed Digital Production Monitoring System (DPMS), including hardware, software, industrial automation interfaces, communication infrastructure, networking equipment,

		and any solution proposed by the Vendor and approved by the FBR. The solution may comprise PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, encoder-based length measurement, reel diameter and width measurement, barcode/QR code/Rfid-based traceability, industrial cameras, video analytics, image-based recognition, utility monitoring, or other technically suitable technologies. ○ Specify dependencies (e.g., on-site readiness, power, and connectivity requirements). 4. Disaster Recovery Plan ○ Detailed disaster recovery plan which includes details of primary contact, response team, post-mortem analysis of incident, and plan for restoration of operations in case of an on-site disaster. ○ Detailed communication plan including disaster recovery calling tree with escalation levels and contacts information ○ Detailed activation criteria which include conditions or events that trigger the activation of the disaster recovery plan ○ Detailed recovery runbook which includes guidelines to follow to restore all operations for all components ○ Detailed backup and restoration procedures to ensure daily backups in place while ensuring minimal production disruption 5. Training Plan ○ Comprehensive training modules for the FBR and manufacturer staff covering system operation, data analysis, and troubleshooting. ○ Include follow-up refresher sessions. 6. Pre-Commissioning and Operational Acceptance Testing Plan ○ Testing protocols to validate system functionality, integration, and compliance with performance benchmarks prior to commissioning. ○ Include criteria for Operational Acceptance. 7. Warranty Service Plan
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		○ Details of warranty coverage, including response times, replacement policies, and periodic maintenance schedules. 8. Task, Time, and Resource Schedules ○ A Gantt chart or similar representation of key tasks, milestones, and associated timelines. ○ Resource allocation details (e.g., personnel, equipment). 9. Post-Deployment Service Plan (if applicable) ○ Outline post-deployment service provisions, including options for extending support agreements. 10. Technical Support Plan ○ 24/7 support infrastructure, escalation matrix. ○ Availability of spare parts and maintenance procedures. 11. System Development Plan ○ Detailed customization plan for the proposed Digital Production Monitoring System (DPMS), including PLC/SCADA or machine-controller integration, industrial sensors, load cells and weighing systems, encoder-based length measurement, reel diameter and width measurement, barcode/QR code/Rfid-based traceability, industrial cameras, video analytics, image-based recognition, utility monitoring, dashboards, reporting modules, and any other technically suitable solution proposed by the Vendor and approved by the FBR, to meet the specific operational, monitoring, reporting, audit, and compliance requirements of the FBR. ○ Include integration with existing systems, data security protocols, and scalability provisions. 12. Compliance and Certification Plan ○ Ensure adherence to relevant regulatory and security standards (e.g., PTA-approved equipment, evaluation certifications). ○ Provide documentation and timelines for obtaining all necessary certifications. 13. Reporting and Monitoring Plan ○ Mechanism for regular progress updates to the FBR.
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		○ Include provisions for dashboards or analytics reports to monitor system performance.										
28.	15.2	The project plan shall be submitted along with the bidding documents.										
29.	15.5	The Authorized Vendor shall submit to the FBR the following reports: (a) Progress Reports • Results Accomplished: Summary of activities completed during the prior period. • Deviations: Cumulative variances from the planned schedule of milestones specified in the Project Plan. • Corrective Actions: Proposed actions to realign the project with the planned schedule, along with revisions to timelines if required. (b) Resource Reports • Resources needed for the next reporting period, including expectations from the FBR or actions to be taken. • Issues related to resource availability impacting project delivery. (c) Issue and Risk Reports • Identification of unresolved issues, risks, or problems impacting the project. • Actions taken and planned resolutions to address these challenges. (d) Performance Reports • Inspection and quality assurance findings. • Logs of service calls, resolutions, and ongoing support activities. • Training completion and participant test results. Note: Authorized Vendor must provide any additional report required on paper and paperboard industry Example Progress Report Table: <table><tr><th>Milestone</th><th>Planned Completion Date</th><th>Actual Completion Date</th><th>Deviation</th><th>Corrective Action</th></tr><tr><td>[Milestone 1]</td><td>[Date]</td><td>[Date]</td><td>[Details]</td><td>[Details]</td></tr></table>	Milestone	Planned Completion Date	Actual Completion Date	Deviation	Corrective Action	[Milestone 1]	[Date]	[Date]	[Details]	[Details]
Milestone	Planned Completion Date	Actual Completion Date	Deviation	Corrective Action								
[Milestone 1]	[Date]	[Date]	[Details]	[Details]								

Sub-Contracting (GCC 16)		
30.	16.1	There are no Special Conditions of Contract applicable to GCC Clause 16.
Transportation (GCC 17)		
31.	17.1	The Authorized Vendor shall be free to use transportation through carriers registered in any eligible country and shall obtain insurance from any eligible source country.
Documents (GCC 19)		
32.	19.1	The Documents specified in GCC 19 are not applicable for this bid.
Products Upgrade (GCC 20)		
33.	20.1	The Authorized Vendor shall provide the FBR with all new versions, releases, and updates to all Standard Software during the Warranty Period, for free, as specified in the GCC
Inspections and Tests (GCC 21)		
34.	21.1	The FBR (PA) shall specify and assign an inspection body responsible for conducting audits of the installed equipment. The inspection body shall: • Verify compliance with all technical specifications listed in the contract, including operational efficiency, durability, and adherence to safety standards. • Conduct inspections at the installation site, including: ○ Functionality tests ○ Quality assessments ○ Operational readiness verification • Provide detailed reports of inspections, highlighting any deviations or issues that require corrective actions.

		☐ The Authorized Vendor shall facilitate the inspection process by granting the specified inspection body access to all relevant equipment, documentation, and personnel as needed. ☐ The inspection reports generated by the inspection body will form the basis for acceptance. Any identified non-compliance must be resolved to the satisfaction of the FBR before final approval. ☐ The FBR reserves the right to direct or conduct additional inspections, through its own personnel or an assigned inspection body, to ensure full compliance.
Installations (GCC 22)		
35.	22.1	There are no Special Conditions of Contract applicable to GCC Clause 22
Operational Acceptance Test (GCC 24)		
36.	24.1	Operational Acceptance Tests will be designed, conducted, and verified by the inspection body (previously referred to as a third party or internal team appointed by the FBR). This ensures independent and unbiased compliance validation. ☐ Test Definition: The inspection body shall clearly outline: • The systems or subsystems to be tested. • The specific tests and procedures to be followed. • The criteria for acceptance, aligned with the technical specifications. ☐ Compliance Scope: Tests should verify: • Functionality and operational readiness of the system. • Compliance with safety, technical, and contractual requirements. • Robustness and fault tolerance under predefined conditions. ☐ Test Results and Reporting: The inspection body will: • Document the results of each test. • Highlight discrepancies or issues that require rectification. • Provide final approval for system acceptance upon successful compliance.

Defect Liability (GCC 27)		
37.	27.1	The authorized vendor shall be responsible for fixing any fault identified in Authorized Vendor's provided hardware or software and replacement of faulty components without any additional cost.
38.	27.3	During the Warranty Period, the Authorized Vendor must commence the work necessary to remedy defects or damage within <i>24 hours</i> of notification
Intellectual Property Rights Indemnity		
39.	28.1	The FBR shall be the owner of the Information system, software and hardware solution provided by the Authorized Vendor.
Related Services (GCC Clause 31)		
40.	31.1	Related services to be provided are: [Selected services covered under GCC Clause 33 and/or other should be specified with the desired features. The price quoted in the Bid price or agreed with the selected Authorized Vendor shall be included in the Contract Price.]
Change Orders (GCC 32)		
41.	32.1	There are no Special Conditions of Contract applicable to GCC Clause 32.
Assignment (GCC 34)		
42.	34.1	Contract cannot be assigned without written prior consent
Liquidated Damages (GCC Clause 37)		
43.	37.1	Scope of Penalty Application: The authorized vendor(s) must implement the agreed solution across all committed manufacturing facilities within the specified timeline as outlined in the Project Plan.

		- Failure to implement the solution in any committed site within the agreed timeframe will result in the following penalties. ☐ Liquidated Damages: Rate: A penalty of 0.2% of the total performance guarantee per day of non-compliance for each affected site. Maximum Deduction: The cumulative penalty shall not exceed the value of the performance guarantee submitted by the vendor. ☐ Escalation of Non-Compliance: - If the delay or failure extends beyond 30 days, the FBR reserves the right to: - Terminate the contract as per GCC Clause 40. - Invoke the performance guarantee to recover damages and initiate reallocation of the project to alternate Authorized Vendors. ☐ Grace Period and Exceptions: - A grace period of 5 working days may be provided under exceptional circumstances upon prior written approval from the FBR. - No penalties shall be applied in cases where the delay is caused by factors beyond the vendor's control, provided the vendor notifies the FBR in writing within 48 hours of identifying the issue. ☐ Enforcement Mechanism: - The penalty will be calculated and deducted from the performance guarantee. Where the amount of penalty is not recoverable fully in manner above, the procurement agency would serve upon the authorized vendor a notice in writing requiring to make the payment within 30 days - Any disputes regarding the imposition of penalties shall follow the Procedure for Dispute Resolution (GCC Clause 45).
Procedure for Dispute Resolution (GCC Clause 43)		
44.	43.1	Dispute Resolution <u>(a) For Contracts to be entered with foreign Contractor/ Service Provider:</u>

		If the Authorized Vendor is foreign (including a Joint Venture when at least one partner is foreign), the Contract shall contain the following provision: Arbitration proceedings shall be conducted in accordance with the rules of arbitration of the International Chamber of Commerce (ICC). These rules, in the version in force at the time of the request for arbitration, will be deemed to form part of this Contract. <u>(b) For Contracts to be entered with nationals of Pakistan:</u> 1. If any dispute of any kind whatsoever shall arise between the FBR and the Authorized Vendor in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract– whether during deployment phase or after their completion and whether before or after the termination, abandonment or breach of the Contract – the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 7 (seven) days following a notice sent by one Party to the other Party in this regard. 2. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties. 3. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration by sole arbitrator in accordance with Arbitration Act 1940. The arbitrator shall be appointed by mutual consent of both the parties. The Arbitration shall take place in Islamabad and proceedings will be conducted in - English language. 4. The cost of the mediation and arbitration shall be shared by the parties in equal proportion however both the parties shall bear their own costs and lawyer's fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the
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		costs of another party to the dispute. 5. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after delivery of goods. 6. Notwithstanding any reference to the arbitration herein, the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree that the FBR shall pay the Authorized Vendor any monies due to the Authorized Vendor.
Notices (GCC Clause 46)		
45.	46.1	— FBR’s address for notice purposes: Room XX, YY Floor, FBR House, Constitution Avenue, G-5, Islamabad —Authorized Vendor’s address for notice purposes:

SECTION IX: CONTRACT FORMS

Form of Contract

THIS AGREEMENT made the _____ day of _____ 20____ between *[name and address of FBR]* of Pakistan (hereinafter called “the FBR”) of the one part and *[name of Supplier]* of *[city and country of Supplier]* (hereinafter called “the Supplier”) of the other part:

WHEREAS the FBR invited Bids for certain goods and related-services, viz., *[brief description of goods and services]* and has accepted a Bid by the Supplier for the supply of those goods and related services in the sum of *[contract price in words and figures]* (hereinafter called “the Contract Price”).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

1. In this Contract words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of precedence shall be the order in which the Contract Documents are listed below:-

- (a) This form of Contract;
- (b) the Form of Bid submitted by the Bidder;
- (c) the Schedule of Requirements;
- (d) the Technical Specifications;
- (e) the Special Conditions of Contract;
- (f) the General Conditions of the Contract;
- (g) the FBR’s Letter of Acceptance; and
- (h) *[add here: any other documents]*

IN WITNESS whereof the parties hereto have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by _____ the _____ (for the FBR)

Witness to the signatures of the FBR:

.....

Signed, sealed, delivered by _____ the _____ (for the FBR)

Witness to the signatures of the Supplier:

Performance Security (or guarantee) Form

To: *[name of FBR]*

WHEREAS *[name of Supplier]* (hereinafter called “the Supplier”) has undertaken, in pursuance of Contract No. *[Reference number of the contract]* dated *[insert date]* to delivery *[description of goods and services]* (hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a reputable bank for the sum specified therein as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE, WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of *[amount of the guarantee in words and figures]*, and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of *[amount of guarantee]* as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the: *[insert date]*

Signature and seal of the Guarantors

[name of bank or financial institution]

[address]

[date]

Integrity Pact

DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE

Contract Number: _____

Dated: _____

Contract Value: _____

Contract Title: _____

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [Name

of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

[Buyer]

[Seller/Supplier]

Annexures

Annexure – A

Examples of alternative solutions for production counting in the paper and paperboard sector

Alternate solution	Description
Image based recognition system	An image-based recognition system may be deployed to monitor, identify, classify, verify, and record production and product movements throughout the paper and paperboard manufacturing process. The system shall utilize industrial-grade cameras, appropriate illumination, computer vision, image-processing techniques, artificial intelligence (AI), and machine-learning algorithms to automatically detect and recognize finished products, including reels, rolls, sheets, bundles, reams, cartons, packs, pallets, or other applicable product forms. Cameras may be installed at critical control points including paper machine reel discharge points, pope reel stations, winders, rewinders, slitters, sheeters, corrugation lines, converting lines, packaging stations, palletization areas, warehouse entry and exit points, weighbridges, and dispatch gates. The system shall identify products based on their visual characteristics and, where applicable, decode associated barcode, QR code, RFID, OCR, or other visual identifiers to associate each product with its product grade, GSM, dimensions, reel number, batch number, production line, shift, machine, SKU, or other production attributes. The solution shall incorporate image validation, object tracking, duplicate detection, and event correlation algorithms to prevent double counting and ensure reliable product

	traceability. Captured production events and associated metadata shall be time-stamped and securely transmitted in real time or near real time to the FBR's centralized monitoring platform or other designated data repository for production monitoring, inventory reconciliation, dispatch verification, reporting, and audit purposes.
Video analytics	Video analytics deployed across paper and paperboard manufacturing, converting, packaging, warehousing, and dispatch operations to monitor, identify, classify, verify, and record production activities and product movements. High-definition industrial cameras shall be installed at strategic control points, including paper machine reel discharge points, pope reel stations, winders, rewinders, slitters, sheeters, corrugation lines, converting lines, packaging stations, palletization areas, warehouse entry and exit points, weighbridges, and dispatch gates. The solution shall utilize industrial IP cameras, edge computing devices where appropriate, and AI-powered video analytics software to automatically detect, classify, track, and verify finished products, including reels, rolls, sheets, bundles, reams, cartons, packs, pallets, or other applicable product forms. Where applicable, the system shall recognize and associate barcode, QR code, RFID, OCR, or other visual identifiers with the relevant product grade, GSM, dimensions, reel number, batch number, production line, machine, shift, SKU, pallet, and timestamp. The solution shall incorporate object tracking, duplicate detection, event correlation, camera health monitoring, obstruction detection, tamper detection, and automated alerts to prevent double counting,

	unauthorized manual intervention, camera obstruction, and communication failures. Production events and associated metadata shall be securely time-stamped and transmitted in real time or near real time to the FBR's centralized monitoring platform or other designated data repository to support production monitoring, inventory reconciliation, dispatch verification, reporting, and audit functions.
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For training validating, and optimizing the proposed Computer Vision, image recognition, OCR, industrial sensor, barcode/QR code/RFID, PLC/SCADA-integrated, or other production monitoring solution for the paper and paperboard sector, representative datasets, images, and video feeds shall be collected from modern automated as well as conventional manufacturing facilities in Pakistan. Data shall be acquired from critical production, conversion, packaging, warehousing, and dispatch stages, including paper machine reel discharge points, pope reel stations, winders, rewinders, slitters, sheeters, corrugation lines, printing and conversion lines, bundling and wrapping stations, carton sealing stations, palletization areas, warehouse entry and exit points, weighbridges, and dispatch gates.

The objective shall be to validate the proposed solution's ability to accurately monitor, measure, identify, classify, verify, and record production activities, product movements, inventory movements, and dispatches, reconcile system-generated production records with independently verified production data, and evaluate the overall accuracy, reliability, traceability, integrity, and auditability of the Digital Production Monitoring System.

The software shall be trained and evaluated on the following parameters:

1) Counting Efficiency

- Ability to uniquely identify and count closely grouped production units, including reels, rolls, sheets, bundles, reams, cartons, packs, or pallets placed in defined zones.
- Ability to recognize variations in product characteristics, including product grade, GSM, reel diameter, reel width, sheet dimensions, board specifications, bundle and ream configurations, packaging formats, labels, barcodes, QR codes, RFID identifiers, and pallet configurations.
- Ability to accurately detect and count under varying lighting and operating conditions common to the paper and paperboard sector.
- Ability to process synchronized video streams and data from multiple cameras, industrial sensors, PLC/SCADA systems, machine interfaces, weighing systems, and other monitoring devices covering large or complex production areas.
- Ability to accurately count production units across different operational stages, including paper machine output, winder/rewinder exit, slitter or sheeter exit, corrugation line exit, printing/conversion exit, bundling or wrapping point, carton sealing point, palletization area, warehouse intake, or dispatch gate.
- Measurement of real-time processing capability of the Computer Vision model, including its ability to count multiple units moving simultaneously within the same region of interest.

- Evaluation of the model's ability to distinguish production units from background activities, including personnel movement, forklifts, conveyors, production equipment, trolleys, pallets, and other operational activities.
- Assessment of system performance and reliability under varying environmental conditions, including varying lighting, dust, vibration, high-speed line movement, roll/sheet size variation, packaging variation, warehouse movement, and mixed automated/manual handling typical of paper and paperboard production operations.

2) System Integration and Usability

- Assessment of reliability availability, synchronization, and continuity of data acquired from cameras, PLC/SCADA systems, industrial sensors, machine interfaces, weighing systems, barcode/QR code/Rfid devices, and other production monitoring equipment.
- Evaluation of accuracy, integrity, consistency, timeliness, and completeness of production monitoring data generated, processed, stored, and transmitted by the Digital Production Monitoring System.
- Assessment of the need for system-generated alerts to address anomalies, disruptions, or potential underreporting/malpractice.
- Collection of user feedback on dashboard and interface usability for paper and paperboard sector operators, management, and auditors.
- Evaluation of maintenance, calibration, and technical support requirements for cameras, edge devices, and supporting hardware to ensure sustained operational performance.