

**PRE-QUALIFICATION DOCUMENT
FOR THE ACQUISITION OF A DIGITAL SUPPLY CHAIN FINANCING
PLATFORM
(Up & DOWN-STREAM)**



National Bank of Pakistan

نیشنل بیک آف پاکستان

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Proposals for Prequalification

ACQUISITION OF DIGITAL SUPPLY CHAIN FINANCING PLATFORM (Up and Down-stream)

1. The National Bank of Pakistan invites e-applications from the contractors registered with the Income Tax and Sales Tax Department for Pre-qualification for the Acquisition of a Digital Supply Chain Financing Platform (Up and Downstream)
2. Electronic Pre-qualification documents, containing eligibility/qualification criteria and other terms & conditions as per Rules 15 & 16 of Public Procurement Rules, 2004 (Revised 2020), are available for the registered applicants on EPADS at (www.eprocure.gov.pk).
3. The electronic proposals, prepared in accordance with the instructions in the Pre-qualification documents, **must be submitted by using EPADS on or before 12th February 2026 at 03:00 PM. Manual bids shall not be accepted. Electronic Proposals will be open on the same day at 03:30 PM.**
4. NBP also reserves the right to cancel this invitation at any stage before the announcement of prequalification results as per PPRA rules. This advertisement is also available on the NBP (www.nbp.com.pk) and PPRA (www.ppra.org.pk) websites. In terms of Rule 48 of Public Procurement Rules, 2004, the Grievance Redressal Committee(GRC) is constituted for the subject procurement. Notification of said GRC is provided on the procuring agency's website www.nbp.com.pk and on EPADS at (www.eprocure.gov.pk).

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1. Introduction

The National Bank of Pakistan (NBP) is one of the largest commercial banks operating in Pakistan. NBP's services are available to individuals, corporate entities, and the government, while it continues to act as a trustee of public funds and as the agent to the State Bank of Pakistan (in places where SBP does not have its presence). It has diversified its business portfolio and is today a leading player in the debt-equity market, corporate investment banking, retail and consumer banking, agricultural financing, and treasury services, and is showing a growing interest in promoting and developing the country's small and medium enterprises and while at the same time fulfilling its social responsibilities as a corporate citizen. Procuring the right product/service carries supreme importance for NBP. Therefore, the primary aim of any procurement and selection procedure is to ensure transparency and fairness in the process that selecting the right vendor based on merit and relevant experience.

2. Scope of Work

Digital Supply Chain Financing (DSCF) Platform – Scope of Work

1) Supply Chain Financing Programs (Upstream & Downstream)

NBP aims to acquire a comprehensive Digital Supply Chain Financing (DSCF) Platform that caters to both **upstream** and **downstream** supply chain financing needs. The platform will facilitate seamless collaboration among key stakeholders, including suppliers, buyers, distributors, and anchor entities, by providing innovative financial solutions tailored to business needs. Additionally, NBP will work with industry associations and partners to promote supply chain finance adoption.

Supply Chain Finance Variant	Upstream or Downstream	Remarks
Invoice Finance	Upstream	<ul style="list-style-type: none"> • Receivable Finance for Supplier • Payable Finance for Anchor * • Export Finance
Dealer Finance	Downstream	<ul style="list-style-type: none"> • Payable Finance for Dealer or Distributor • Receivable Finance for Anchor *

* In any situation, Anchor is not the borrower. Our borrower is a Supplier, Dealer, or Distributor in the above variants.

2) Core Functionalities

a. Digital Invoice Tracking & Financing

- Automated tracking of invoices from initiation (by suppliers or distributors) to endorsement by the anchor.
- Real-time visibility into invoice status, maturity dates, and payment timelines.
- Automated alerts for critical milestones, such as invoice delays or payment due dates.

b. KYC/AML Compliance

- The DSCF Platform should have independent, robust KYC and AML processes within themselves to ensure regulatory compliance.
- The DSCF Platform should independently manage automated screening of suppliers, buyers, and distributors against global watchlists within its domain.
- The DSCF Platform should ensure continuous monitoring of customer activities to identify potential risks and mitigate fraud.

c. Credit Assessment and Risk Management

- All automated credit assessment and risk scoring for suppliers, buyers, distributors, and anchors shall be independently carried out by the DSCF Platform.
- Dynamic pricing and risk-based models to optimize lending decisions shall be carried out by the DSCF Platform independently.
- The platform should have real-time monitoring functionality of portfolio performance with early warning signals.

d. Invoice Financing / Discounting

- Efficient invoice discounting and factoring processes with automated valuation and discounting.
- Real-time tracking of discounted invoices and their associated payments.
- Automated payment reminders (through email) and follow-ups to ensure timely payments.

3) Platform Capabilities

- **User-Friendly Interface**
- Intuitive and user-friendly interface for suppliers, buyers, distributors, and bank staff.
- Customizable dashboards and reporting tools to track key performance indicators.

a. Robust Security and Data Privacy

- Advanced security measures to protect sensitive data and prevent unauthorized access.
- Compliance with industry standards and regulatory requirements.

b. Scalability and Flexibility

- Scalable architecture to accommodate future growth and evolving business needs.
- Flexibility to integrate with various external systems and platforms.

By implementing this DSCF platform, NBP aims to enhance its competitiveness, strengthen relationships with customers, and contribute to the growth and development of the supply chain ecosystem.

3. Instructions to Applicants

Collection of Pre-qualification Documents

This invitation follows the Proposal for Pre-qualification that was placed on NBP's website and the website of the Public Procurement Regulatory Authority (PPRA), as also published in the daily newspapers in 'Express Tribune' (English) and 'Jahan-e-Pakistan' (Urdu) on January 20, 2026.

Interested Applicants may download the Pre-qualification Documents, containing detailed terms and conditions, etc. can be downloaded from the National Bank of Pakistan (NBP) website www.nbp.com.pk/TENDER and <https://eprocure.gov.pk> free of cost.

Preparation of Proposals

The applications shall be prepared in the English language. Information in any other language shall be accomplished by its translation into English; however, in case of any discrepancy in such translation, the translated version of the application shall prevail.

The Applicants must respond to all questions and provide complete information as advised in this document. Any lapses in providing essential information may result in the disqualification of the Applicant.

The Proposal must be complete in all respects with all annexures attached; however, the same must not contain any information related to financial aspects. Proposals must be duly signed and stamped by the authorized person of the Applicant.

Required details must be properly filled. No Applicant shall be allowed to alter or modify once Proposals have been opened. NBP may seek and accept clarifications to the Proposal that do not change the substance of the Proposal. Any such clarification shall be in writing.

Submission of Proposals

- Pre-qualification Proposals shall be uploaded on EPADS.
- The name and mailing address of the Applicant shall be mentioned.
- **Submission of proposals for Pre-qualification will be valid if applications for Pre-qualification are uploaded on EPADS on or before 12th February 2026, by 03:00 PM. Manual submission of the Proposal will not be allowed.**

Opening of Proposals

- **Pre-qualification Proposals shall be opened/acknowledged on 12th February 2026 at 03:30 PM by a committee designated by NBP through EPADS.**
- Late/Manual Proposals will be rejected and will be returned unopened to the Company. NBP shall not be held responsible for either non-receipt or late receipt of Proposals.

Evaluation of Proposals

NBP shall evaluate the proposal in a manner prescribed in the Pre-qualification Criteria and reject any proposal that does not conform to the specified requirements.

NBP may reject all proposals at any time before the acceptance of a proposal. NBP shall, upon request, communicate to any Applicant who submitted a proposal the grounds for rejection of its proposal; however, NBP shall not justify those grounds as per Public Procurement Rule 33.

NBP shall conduct a comprehensive, fair, and impartial evaluation of all proposals received, verifying the same with documentary evidence provided by Applicants as required in the Evaluation Criteria.

Service-Based Model

To ensure a comprehensive evaluation, all applicants must specify whether their proposed solution will be delivered as a service-based model. This information is crucial to assessing the technical feasibility and operational efficiency of each approach.

Financial Model:

The project will be executed on an **income-sharing basis on a banking spread**. The specific terms of the **income-sharing arrangement** are mentioned in **section 8**.

Service Specifications:

The proposed solution must be hosted and managed by the Applicant on their own infrastructure independently. The Applicant will be responsible for the complete setup, maintenance, and security of the platform, ensuring compliance with industry security standards, Regulatory Guidelines, and NBP Information Security standards.

NBP users will access the platform through a URL only. The Applicant must create and provide the users' credentials for NBP users requested by NBP. Once the user IDs are created, authorized NBP users will be able to access the platform using their credentials.

The platform will not be integrated with any NBP systems, nor will it be accessed through NBP's internal network or require any whitelisting. Users will access the platform independently via a standard internet connection (Wi-Fi or otherwise) or NBP network.

Upon logging in, users will have the ability to download approved invoices and manually process and execute payment transactions outside the scope of the platform. The solution's primary function is to provide secure access to approved invoices without any direct linkage to NBP's internal processing systems.

Technical Eligibility

All Applicants must submit a fully completed, accurate, and comprehensive Eligibility (Section 4) and Qualification Criteria (Section 5) form. Failure to do so will result in automatic rejection. Additionally, each page of the submitted document must be stamped and signed by the company.

Announcement of Results

Evaluation Reports will be uploaded/published on both the NBP and PPRA websites. After finalization of the evaluation, the Prequalified Applicant / Applicants shall be issued a “Pre-qualification Letter/Email.”

In the next phase of the procurement process, NBP shall invite Bids only from Prequalified Applicants as per the Public Procurement Rules.

NBP shall communicate to those Applicants who have not been pre-qualified the reasons for not pre-qualifying them.

Framework Agreement

NBP may, on a need basis, pre-qualify new vendors during the continuity of framework agreements with previously pre-qualified vendors.

Award of Contract

The procurement of the Digital Supply Chain Financing Platform (Upstream [Invoice Finance / Purchase Order Finance / Export Finance] and Downstream [Dealer Finance]) shall be conducted through the Pre-qualification method. No CAPEX cost shall be included in this procurement, and the engagement model will be based on an income-sharing ratio, where the National Bank of Pakistan (NBP) will retain 80% of the revenue, while the Applicant's participation shall be limited to 20% per financed invoice. Any proposal exceeding this ratio will not be considered. In accordance with PPRA rules, only technically pre-qualified applicants will be engaged in the fixed income-sharing model. Applicants: The procurement process will adhere to Public Procurement Rule 36(a), following a Single Stage, Single Envelope bidding procedure.

Method of Procurement

The methodology for procurement of a Digital Supply Chain Financing Platform (Up and Downstream) shall be based on the Pre-qualification Method. After Prequalification, the successful Applicants will be invited to submit Technical Proposals. Further procurement process shall be concluded as per Public Procurement Rule 36(a), i.e., Single Stage One Envelope bidding procedure.

Objections to Terms of Pre-qualification Document

Should an Applicant object on any ground (including any ambiguity, discrepancy, omission, or error to any provision or legal requirements outlined in this Pre-qualification Document, the Applicant must provide written notice to NBP specifying the grounds for the objection; however, within three (03) calendar days after publication of the Invitation for Proposal for Pre-qualification.

The failure of an Applicant to object in the manner outlined in the above paragraph shall constitute a complete and irrevocable waiver of such objection.

Submission of proposal in response to this invitation shall be construed as Applicant's consent to the contents of the Pre-qualification Document, including terms and conditions appended therein, thus rendering any subsequent objection as null & void.

Modifications of the Pre-qualification Document

NBP may modify the Pre-qualification Document before the submission deadline by issuing a Corrigendum, which will be posted on the NBP website.

NBP will make reasonable efforts to notify Applicants of modifications to the Pre-qualification Document in a timely manner.

Notwithstanding this provision, the Applicant is responsible for ensuring that its Proposal reflects any addenda issued by NBP before the Submission Deadline, regardless of when the proposal is submitted.

Proposal Validity period

The Proposal for Pre-qualification will remain subject to NBP's acceptance for one hundred and eighty (180) calendar days after the Submission Deadline, or such later date as per Public Procurement Rules 2004.

Submission of a proposal signifies that the proposal is genuine and not the result of collusion or any other anti-competitive activity, including corrupt practices and/or fraudulent practices.

In submitting its proposals, an Applicant agrees that if the Proposal is accepted, the Applicant shall submit Technical and Financial bids on or before the deadline specified by NBP.

Failure to furnish any documents or other materials required in the proposal shall be deemed an abandonment of the proposal offer.

Successful applicants will be prequalified for three years, with the option for extension at the discretion of NBP.

Modification and Withdrawal of Proposals

Any Applicant may revise/modify or withdraw the Proposal on its own initiative at any time before the Submission Deadline.

The revised/modified proposal must be uploaded to EPADS on or before the Submission Deadline.

No Proposal shall be revised/modified, or withdrawn by an Applicant after the date and time for submission of the Proposal.

Cancellation of Pre-qualification Process

NBP may cancel this process at any stage as per Public Procurement Rules without assigning any justification or in case of no competition between Applicants or pooling up their proposals/offers.

NBP can select any one or all of the pre-qualified suppliers.

Updating Pre-qualification Information

Applicants shall be required to update the financial, personnel, and resource information used for Pre-qualification at the time of submitting their bids, to confirm their continued compliance with the qualification and evaluation criteria, and verification of the information provided at the time of pre-qualification. A bid shall be rejected if the Applicant's qualification thresholds are no longer met at the time of bidding.

Disqualification of Applicants

NBP shall disqualify an Applicant at any time if the information submitted by the Applicant is found to be false and materially inaccurate or incomplete.

Direct or indirect canvassing, impelling, or influencing any representative of NBP for any purpose related to the procurement process is strictly prohibited and shall lead to immediate disqualification of the Applicant.

Black-listing of Applicants

In terms of Rule 19 of the PPRA Rules, 2004, NBP may also permanently or temporarily bar and/or black-list an Applicant from participating in respective procurement proceedings and future tenders in case the Applicant is found to be indulging in corrupt and fraudulent practices (as defined in the PPRA Rules, 2004).

4. Eligibility Criteria

Instructions

- Responses against ALL questions MUST be in “YES” or “NO” only (Column-C).
- Responses against ALL questions MUST be in the affirmative (“YES”) for applicants to **qualify** for the next stage of the procurement process; as such, any response in negative (“NO”) shall lead to the **disqualification** of the applicant/proposal.
- All documents/documentary evidence (as required) MUST be attached to the Proposal.

A	B	C	D
Sr.	Questions	Response (Yes or No)	Annexure
1	Is the Applicant incorporated as a “Private/Public Limited” or any other form permissible under the Legal system of Pakistan with the Securities and Exchange Commission of Pakistan (SECP)? (Please attach attested copies of the SECP Certificate of Incorporation, Memorandum of Association, and Articles of Association).		
2	The Applicant should also be a registered Taxpayer, enrolled with the concerned Tax authorities [Federal Board of Revenue and/or Provincial Revenue Board(s)], and enlisted on the Active Taxpayer list of FBR. (Documentation proof required must be provided in the proposal with proper reference [page no.] in the proposal)		
3	Applicant must provide an undertaking stating that "the Applicant is not blacklisted by any Government entity in Pakistan for unsatisfactory past performance, corrupt, fraudulent, or any other unethical business practices, and also not involved in any kind of lawsuits in this regard, either current or pending." (Please provide confirmation/declaration on a Stamp Paper of Rs. 100/- or on a letterhead) format given in the last part of this document.		
4	The Applicant should provide audited financials. In case if audited statement is not available for the last year, then the Applicant should provide a letter from the company's CFO (Chief Financial Officer) or senior management staff confirming the Sales Volume / Revenue of the company, including the Revenue/Sales Volume from the last year. (Attach a copy of the Annual Audited Financial Statement or attested Bank Certificate mentioning annual turnover amounts for relevant periods).		
5	Does the Applicant's company undertake that in case any information/document submitted is found false/forged, the firm shall be disqualified from the procurement process at any stage? (Please attach an undertaking on Stamp Paper of Rs. 100/-)		
6	The Applicant should have an office/presence in Karachi / Lahore, or Islamabad, along with the required resources for deployment at NBP. (Documentation proof and undertaking on letterhead must be provided with proper reference (page no.) in the proposal)		

A	B	C	D
Sr.	Questions	Response (Yes or No)	Annexure
7	<p>The Applicant should not already be engaged in any assignment which, by its nature, conflicts with another assignment at the bank. If a consultant has been engaged to provide goods or works for any NBP's project, they shall not be eligible to provide consultancy services for the same project. Applicant/joint venture partners should provide a list of services for which they are engaged with NBP for similar nature projects and other assignments, if any, to establish the conflict-of-interest element. If any conflict is found, the bank reserves the right to disqualify the applicant.</p>		
8	<p>The Applicant must demonstrate a minimum of one (01) active contract of a supply chain financing platform for a financial institution in Pakistan. As proof of experience, the Applicant must provide signed contracts.</p> <p>Unsigned, unstamped, or incomplete documentation will not be considered.</p> <p>NBP reserves the right to independently verify the information provided by the applicant, including contacting the reference clients, financial institutions, etc.</p>		
9	<p>Applicant should provide an undertaking that it will provide its full support in remediating and fixing all issues that will be reported by third-party companies during the Penetration Testing/Ethical Hacking/Web Vulnerability assessment of the proposed system. This exercise will be performed before the Go-Live phase.</p>		
10	<p>Must be registered with the Sindh Revenue Board (SRB) and have an active status of the registration (SNTN).</p>		

11	<p>The applicant shall upload the Declaration of Ultimate Beneficial Owners Information:</p> <ul style="list-style-type: none"> ▪ Name ▪ Father's/Husband's Name ▪ CNIC / Passport # ▪ Date of Birth ▪ Place of Birth ▪ Address ▪ Nationality ▪ No. of Securities 																																																																			
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">1</th><th style="width: 10%;">2</th><th style="width: 10%;">3</th><th style="width: 10%;">4</th><th style="width: 10%;">5</th><th style="width: 10%;">6</th><th style="width: 10%;">7</th><th style="width: 10%;">8</th><th style="width: 10%;">9</th><th style="width: 10%;">10</th><th></th></tr> </thead> <tbody> <tr> <td style="text-align: center;">Name</td><td style="text-align: center;">Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/Partnership Firm/Trust/Any other individual, body corporate (to be specified))</td><td style="text-align: center;">Date of Incorporation/registration</td><td style="text-align: center;">Name of Registering Authority</td><td style="text-align: center;">Business Address</td><td style="text-align: center;">Country</td><td style="text-align: center;">Email Address</td><td style="text-align: center;">Percentage of Shareholding, control, or interest of BO in the legal person or legal arrangement</td><td style="text-align: center;">Percentage of Shareholding, control, or interest of a legal person or legal arrangement in the Company</td><td style="text-align: center;">The identity of the natural person who ultimately owns or controls the legal person or arrangement.</td><td></td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table>	1	2	3	4	5	6	7	8	9	10		Name	Legal form (Company/Limited Liability Partnership/Association of Persons/Single Member Company/Partnership Firm/Trust/Any other individual, body corporate (to be specified))	Date of Incorporation/registration	Name of Registering Authority	Business Address	Country	Email Address	Percentage of Shareholding, control, or interest of BO in the legal person or legal arrangement	Percentage of Shareholding, control, or interest of a legal person or legal arrangement in the Company	The identity of the natural person who ultimately owns or controls the legal person or arrangement.																																														
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12	<p><i>As per SBP's recent instructions mandate, Digital Platforms should be hosted either on the Bank's Infrastructure or on local cloud service providers operating under the SBP Cloud Outsourcing Framework.</i></p> <p>Platform hosting should be based on a local SaaS model or In-house hosting at NBP's Infrastructure.</p> <p>(Note: Hardware requirements must be provided by the vendor along with the proposal.)</p>																																																																			
13	<p>Solution provider must meet all requirements of the CSP framework issued by SBP.</p> <p>(https://www.sbp.org.pk/bprd/2023/C1-Annix-A.pdf)</p>																																																																			
14	<p>The platform supports strong API integration for smooth connectivity. It enables real-time data exchange and an efficient process.</p>																																																																			
15	<p>The service provider should share the active working contract with a local CSP.</p>																																																																			
16	<p>Require vendors to disclose full stack: Specify acceptable versions and compliance with SBP/local hosting requirements.</p> <ol style="list-style-type: none"> a) Programming languages (Java, .NET, Node.js, Python), b) Frameworks, 																																																																			

	<p>c) Databases (Postgres, Oracle, MySQL, NoSQL, MS SQL), d) Middleware, e) API gateway, f) Message queues (Kafka, RabbitMQ), UI tech (React, Angular, Vue).</p>		
17	Vendors to provide a high-level system architecture diagram showing logical layers (presentation, business, data), integration points, microservices, APIs, security controls, and scalability provisions.		
18	Integration Standards, RESTful APIs with JSON payloads; support for ISO 20022, Open Banking APIs, or SBP-defined data formats; backward compatibility, etc.		
19	The RFP mentions local cloud hosting under SBP's CSP framework, but should specify preferred cloud service providers (e.g., NBP-approved Tier III+ DC, or local CSP such as PTCL, NTC, or CloudFirst) and disaster recovery expectations.		
20	Include non-functional requirements (NFRs): response time (<2 seconds for transactions), minimum acceptable uptime, concurrency support, scalability per number of suppliers/dealers, and DR RPO/RTO targets.		
21	Require capabilities for real-time analytics, data warehousing integration, and support for AI/ML-based credit scoring (optional future roadmap).		
<p>Note:</p> <ul style="list-style-type: none"> NBP won't pay for any managed service or maintenance; it will be done on a linear income-sharing basis, 80% - 20% for the spread. The service provider/vendor will have to bear all expenses incurred by it for its arrangement with the cloud service provider. 			

5. Qualification Criteria for the DSCF Platform

Instructions

- Only **ONE** relevant response [**Yes/No**] against each Question MUST be provided in the **Response Column**.
- The Remarks Column** MUST be left blank for the sole use of **NBP**.
- The **Response will be considered “No,”** and it shall be awarded against a response to any question if it is unresponded, left blank, unclear, ambiguous, vague, /or is in duplicate.
- All documents/documentary evidence (as required) MUST be attached to the Proposal; otherwise, the **response will be considered “No”**.
- Requirements that are prioritized as “High” must be met by the solution provider; otherwise, it will lead to disqualification.**

Note:

- NBP will share detailed business requirement documents (BRD) with the pre-qualified applicants.

Qualification Criteria for Up-Stream [Invoice Finance / Purchase Order Finance]

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks		
1	Digital Invoice Tracking & Financing					
	Automated tracking of invoices from initiation by the supplier to endorsement by the anchor.	High				
	Real-time visibility into invoice status, maturity dates, and payment timelines.	High				
	Automated alerts for critical milestones, such as invoice delays or payment due dates.	High				
2	KYC/AML Compliance					
	Integration of robust KYC and AML processes to ensure regulatory compliance.	High				
	Automated screening of suppliers and buyers against global watchlists and internal databases.	High				
3	Continuous monitoring of customer activities to identify potential risks.	High				
	Credit Assessment and Risk Management					
	Automated credit assessment and risk scoring of suppliers and buyers.	High				
4	Dynamic pricing and risk-based pricing models to optimize lending decisions.	High				
	Real-time monitoring of portfolio performance and early warning signals.	High				
	Invoice Financing / Discounting					
	Efficient invoice discounting and factoring processes, including automated valuation and discounting.	High				
	Real-time tracking of discounted invoices and their associated payments.	High				
	Automated payment reminders and follow-ups to ensure timely payments.	High				

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
5	Supplier Financing Provision of working capital financing to suppliers to facilitate timely payments.	High		
6	Platform Capabilities User-Friendly Interface: Intuitive and user-friendly interface for suppliers, buyers, and bank staff. Customizable dashboards and reporting tools to track key performance indicators.	High		
7	Robust Security and Data Privacy Advanced security measures to protect sensitive data and prevent unauthorized access. Compliance with industry standards and regulations.	High		
8	Scalability and Flexibility Scalable architecture to accommodate future growth and evolving business needs. Flexibility to integrate with various systems and platforms	High		
9	Project Deliverables Detailed project plan, including timelines and milestones. System design and architecture documentation. Development and testing of the DSCF platform. User training and documentation. Deployment and go-live of the platform. Post-implementation support and maintenance.	High		
10	Set up Financing Rule Applicants should propose a solution that establishes and manages financing rules, allowing the bank to define and adjust margin percentages and financing conditions as needed. The system must support flexibility in rule creation and modification, ensuring alignment with changing financial strategies and compliance requirements.	High		
11	Review Approved Invoices The system must facilitate automated checks and workflows to streamline the approval process while maintaining compliance with financial guidelines.	High		
12	Review Early Payment Requests (EPR) The system must implement the Four-Eye Principle for all critical transactions, requiring at least two authorized individuals to review and approve transactions, such as Early Payment Requests (EPR), before any disbursement or payment is processed. It must be configurable up to 6 Authorizers.	High		
13	Receive Invoice Payment/Settlement from Buyer The system must ensure accurate tracking of	High		

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	payments, provide real-time updates to stakeholders, and complete the financial transaction workflow efficiently.			
14	Buyer / Anchor Customer Process Flow The system should facilitate supplier selection, streamline procurement processes, and ensure alignment with operational requirements.	High		
15	Purchase Orders Applicants should propose a flexible solution for managing orders placed by anchor customers, designed as an optional step in the process.	High		
15	The system must accommodate varying workflows and integrate seamlessly with existing order management and supply chain processes.	High		
16	Delivery Orders The system must allow users to review orders scheduled for delivery, providing visibility into delivery timelines and order status.	High		
16	The solution should incorporate features to ensure that details of goods to be delivered under invoices are accurate and delivery occurs within specified timeframes, including alerts for any potential delays or discrepancies.	High		
17	Invoice (Acceptance) The system must ensure that invoices are accurately tracked and that acceptance workflows are efficiently managed to facilitate timely payments.	High		
18	Credit Utilization Tracking Real-Time Credit Utilization Tracking: The system must offer real-time monitoring of credit utilization, enabling bank administrators to track usage against allocated limits and ensure compliance with set boundaries.	High		
19	Reports Customized Reporting: The system must generate customized reports based on user-defined filters, allowing for tailored data extraction and presentation. In-Depth Analysis and Insights: The system should provide comprehensive analysis and actionable insights to facilitate informed decision-making.	High		
20	Futuristic Approach The system should be capable of catering to future requirements related to financing products of conventional and Islamic modes of financing.	High		
	The platform should be configurable & customizable	High		

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	to enable new products in the existing platform.			

Qualification Criteria for Up-Stream [Export Finance]

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
1	Digital Invoice Tracking & Financing			
	Automated tracking of invoices from initiation by the supplier to endorsement by the direct exporter.	Low		
	Real-time visibility into invoice status, maturity dates, and payment timelines.	Low		
2	Automated alerts for critical milestones, such as invoice delays or payment due dates.	Low		
	KYC/AML Compliance			
	Integration of robust KYC and AML processes to ensure regulatory compliance.	Low		
	Automated screening of suppliers and buyers against global watchlists and internal databases.	Low		
3	Continuous monitoring of customer activities to identify potential risks.	Low		
	Credit Assessment and Risk Management			
	Automated credit assessment and risk scoring of suppliers and buyers.	Low		
	Dynamic pricing and risk-based pricing models to optimize lending decisions.	Low		
	Real-time monitoring of portfolio performance and early warning signals.	Low		
	Efficient invoice discounting and factoring processes, including automated valuation and discounting.	Low		
	Real-time tracking of discounted invoices and their associated payments.	Low		
5	Automated payment reminders and follow-ups to ensure timely payments.	Low		
	Export Finance I & Export Finance II			
5	Provision of export finance I to direct exporters and export finance II for indirect exporters to facilitate timely payments to anchors/suppliers.	Low		

S. No.	Requirement Description	Priority (High/Low)	Responsible (Yes/No)	Remarks
6	Platform Capabilities			
	User-Friendly Interface: Intuitive and user-friendly interface for suppliers, buyers, and bank staff.	Low		
7	Customizable dashboards and reporting tools to track key performance indicators.	Low		
	Robust Security and Data Privacy			
8	Advanced security measures to protect sensitive data and prevent unauthorized access.	Low		
	Compliance with industry standards and regulations.	Low		
9	Scalability and Flexibility			
	Scalable architecture to accommodate future growth and evolving business needs.	Low		
10	Flexibility to integrate with various systems and platforms	Low		
	Project Deliverables			
9	Detailed project plan, including timelines and milestones.	Low		
	System design and architecture documentation.	Low		
	Development and testing of the DSCF platform.	Low		
	User training and documentation.	Low		
	Deployment and go-live of the platform.	Low		
	Post-implementation support and maintenance.	Low		
10	Set up Financing Rule			
	Applicants should propose a solution that establishes and manages financing rules, allowing the bank to define and adjust margin percentages and financing conditions as needed.	Low		
11	The system must support flexibility in rule creation and modification, ensuring alignment with changing financial strategies and compliance requirements.	Low		
	Review Approved Invoices			
11	The system must facilitate automated checks and workflows to streamline the approval process while maintaining compliance with financial guidelines.	Low		

S. No.	Requirement Description	Priority (High/Low)	Responsible (Yes/No)	Remarks
12	Review Early Payment Requests (EPR) The system must implement the Four-Eye Principle for all critical transactions, requiring at least two authorized individuals to review and approve transactions, such as Early Payment Requests (EPR), before any disbursement or payment is processed. It must be configurable up to 6 Authorizers.	Low		
13	Receive Invoice Payment/Settlement from Buyer The system must ensure accurate tracking of payments, provide real-time updates to stakeholders, and complete the financial transaction workflow efficiently.	Low		
14	Exporter / Indirect Exporter payment processing The system should facilitate the Exporter / Indirect Exporter to create an order form to place an order on the portal. The following are the steps: <ul style="list-style-type: none">• The customer logs into the portal and places an order against which financing is requested.• After the final order is submitted, the direct exporter is redirected to the payment processing section, where the indirect exporter can view the order placed through the Portal only for which financing is requested.	Low		
15	Purchase Orders The system must accommodate varying workflows and integrate seamlessly with existing order management and supply chain processes.	Low		
16	Exporter / Indirect Exporter Profile Creation The system should allow the Direct / Indirect Exporter to create/upload their profile for approval to the Financial Institution, i.e., NBP.	Low		
17	Invoice (Acceptance) The system must ensure that invoices are accurately tracked and that acceptance workflows are efficiently managed to facilitate timely payments.	Low		
18	Credit Utilization Tracking			

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	Real-Time Credit Utilization Tracking: The system must offer real-time monitoring of credit utilization, enabling bank administrators to track usage against Yes/No limits and ensuring compliance with set boundaries.	Low		
19	Reports Customized Reporting: The system must generate customized reports based on user-defined filters, allowing for tailored data extraction and presentation. In-Depth Analysis and Insights: The system should provide comprehensive analysis and actionable insights to facilitate informed decision-making.	Low		
20	Export Performance Tracking The system should be capable of monitoring SBP's performance monitoring criteria in accordance with the Export Finance Scheme.	Low		
21	Futuristic Approach The system should be capable of catering to future requirements related to financing products of conventional and Islamic modes of financing. The platform should be configurable & customizable to enable new products in the existing platform.	Low		

Qualification Criteria for Down-Stream [Dealer Finance]

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
Digital Invoice Tracking & Financing				
1	Automated tracking of invoices from initiation by the supplier to endorsement by the anchor.	High		
	Real-time visibility into invoice status, maturity dates, and payment timelines.	High		
	Automated alerts for critical milestones, such as invoice delays or payment due dates.	High		
KYC/AML Compliance				
2	Integration of robust KYC and AML processes to ensure regulatory compliance.	High		
	Automated screening of suppliers and buyers against	High		

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	global watchlists and internal databases.			
	Continuous monitoring of customer activities to identify potential risks.	High		
Credit Assessment and Risk Management				
3	Automated credit assessment and risk scoring of suppliers and buyers.	High		
	Dynamic pricing and risk-based pricing models to optimize lending decisions.	High		
	Real-time monitoring of portfolio performance and early warning signals.	High		
Invoice Financing / Discounting				
4	Efficient invoice discounting and factoring processes, including automated valuation and discounting.	High		
	Real-time tracking of discounted invoices and their associated payments.	High		
	Automated payment reminders and follow-ups to ensure timely payments.	High		
Distributor Financing				
5	Provision of working capital financing to distributors to facilitate timely payments to anchors/suppliers.	High		
Platform Capabilities				
6	User-Friendly Interface: Intuitive and user-friendly interface for suppliers, buyers, and bank staff.	High		
	Customizable dashboards and reporting tools to track key performance indicators.	High		
Robust Security and Data Privacy				
7	Advanced security measures to protect sensitive data and prevent unauthorized access.	High		
	Compliance with industry standards and regulations.	High		
Scalability and Flexibility				
8	Scalable architecture to accommodate future growth and evolving business needs.	High		
	Flexibility to integrate with various systems and platforms	High		
Project Deliverables				
9	Detailed project plan, including timelines and milestones.	High		
	System design and architecture documentation.	High		
	Development and testing of the DSCF platform.	High		
	User training and documentation.	High		
	Deployment and go-live of the platform.	High		
Set up Financing Rule				
10	Applicants should propose a solution that establishes and manages financing rules, allowing the bank to define and adjust margin percentages and financing	High		

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	conditions as needed.			
	The system must support flexibility in rule creation and modification, ensuring alignment with changing financial strategies and compliance requirements.	High		
11	Review Approved Invoices The system must facilitate automated checks and workflows to streamline the approval process while maintaining compliance with financial guidelines.	High		
12	Review Early Payment Requests (EPR) The system must implement the Four-Eye Principle for all critical transactions, requiring at least two authorized individuals to review and approve transactions, such as Early Payment Requests (EPR), before any disbursement or payment is processed. It must be configurable up to 6 Authorizers.	High		
13	Receive Invoice Payment/Settlement from Buyer The system must ensure accurate tracking of payments, provide real-time updates to stakeholders, and complete the financial transaction workflow efficiently.	High		
14	Distributor & Retailer payment processing The system should facilitate the Distributor & Retailer to create an order form to place an order on the portal. The following are the steps: <ul style="list-style-type: none"> • The customer logs into the portal and places an order against which financing is requested. • After the final order is submitted, the distributor is redirected to the payment processing section, where the distributor can view the order placed through the Portal for which financing is requested. 	High		
15	Purchase Orders The system must accommodate varying workflows and integrate seamlessly with existing order management and supply chain processes.	High		
16	Distributor & Retailer Profile Creation The system should allow the Distributor/ Retailer to create/upload their profile for approval to the Financial Institution, i.e., NBP.	High		
17	Invoice (Acceptance) The system must ensure that invoices are accurately tracked and that acceptance workflows are efficiently managed to facilitate timely payments.	High		
18	Credit Utilization Tracking Real-Time Credit Utilization Tracking: The system	High		

S. No.	Requirement Description	Priority (High/Low)	Response (Yes/No)	Remarks
	must offer real-time monitoring of credit utilization, enabling bank administrators to track usage against allocated limits and ensure compliance with set boundaries.			
19	Reports			
	Customized Reporting: The system must generate customized reports based on user-defined filters, allowing for tailored data extraction and presentation. In-Depth Analysis and Insights: The system should provide comprehensive analysis and actionable insights to facilitate informed decision-making.	High		
20	Futuristic Approach			
	The system should be capable of catering to future requirements related to financing products of conventional and Islamic modes of financing.	High		
	The platform should be configurable & customizable to enable new products in the existing platform.	High		

API Security Review Checklist

**Bidders must submit supporting documentation for each applicable line item with their response. Incomplete responses will be deemed ineligible. If a response is deemed inadequate or insufficient, the bidder must provide a detailed justification.

Mark (NA) if not applicable with Reason

INSTRUCTIONS: To be completed by the Project Manager, developer, and ISO during the Definition, Technical Design, and Validation Project Phases, except where noted as not required. Fill in all applicable sections. Use drop-down menus where available. Insert N/A as appropriate.		Guide	Answer (True, False, N/A)	Provide the Reason, Justification, and attach the Documents (where applicable)
1.0 Authentication & Authorization		Acceptable Criteria		
1.1	Use a secure authentication mechanism	Don't use basic authentication with plaintext credentials, e.g. plaintext password in URL parameter etc. Apply standard & secure authentication such as JWT tokens with dynamic mechanism per session/per request, OAuth 2.0, or public/private API keys combination.		
1.2	Ensure secure storage of passwords, API tokens & keys	Store API tokens/keys in secure key vaults via secure mechanism such as Windows Local Security Authority so that tokens & keys remain secure including the config file data.		
1.3	Ensure encryption of sensitive data & tokens in transit and at rest	Sensitive data including credentials must be encrypted in transit and at rest. Use transport layer security protocols and strong encryption algorithms e.g. RSA, AES-256 etc.		

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1.4	Never place the credentials in source code	Plaintext credentials or hashes must not be placed in source code to avoid misuse & brute force attacks by adversaries.		
1.5	Configure maximum login retries following the IS policy of organization	For NBP assets, 5 maximum retries should be allowed before the account gets locked. It prevents brute force attacks.		
2.0	Access Security		Acceptable Criteria	
2.1	Use HTTPS instead of HTTP	Implement SSL based communication over API connections.		
2.2	Display as minimum information as possible in your API request/response	Don't rely on client side to filter data; Avoid using generic methods such as to_json() and to_string() . Instead, cherry-pick specific properties & data you really want to return.		
3.0	Input Security		Acceptable Criteria	
3.1	Sensitive data protection in URL	Don't use any sensitive data (credentials, passwords, security tokens, and/or API keys) in the URL but use standard Authorization header.		
3.2	Use appropriate HTTP method according to the operation	Use GET (read), POST (create), PUT/PATCH (replace/update), and DELETE (to delete a record) methods appropriately in API communication. Respond with <i>405 Method Not Allowed</i> if the requested method is not appropriate for the requested resource.		
3.3	Ensure content validation controls for input security	<p>Content Validation for Request: To validate the content type of response, use Accept header in HTTP request (Content Negotiation) to allow only the supported formats (e.g., application/xml, application/x-www-form-URL encoded, multipart/form-data, application/Json etc.).</p> <p>Content Validation for SQL injection, RCE and XSS: Validate the user-submitted content for SQL injection, Remote Code Execution, and Cross-Site Scripting (XSS).</p>		
3.4	Ensure Secure Coding Practice	Remove unused dependencies, unnecessary features, components, files, and documentation. Run dependency check tools such as OWASP Dependency check.		
3.5	Make trusted updates of packages	Always check for trusted sources. Get the packages for your application with authorized signature so that no malicious component is included in the		

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		package.		
3.6	Apply caching and rate limiting	Use an API Gateway service to enable caching, rate limit policies (e.g., Quota, Spike Arrest, or Concurrent Rate Limit) and deploy API resources dynamically.		
4.0	Output Security		Acceptable Criteria	
4.1	Ensure content validation controls for output security	Content Validation for Response: Validate the content type of returned data via Content-type header of HTTP response. It should match with the request's Accept header. Respond with 406 Not Acceptable response if it is not matched.		
4.2	Use appropriate HTTP response headers for output security	Recommended Use: <ul style="list-style-type: none"> • X-Content-Type-Options: Nosniff • X-Frame-Options: Deny (if there are no frames used in application) • X-Frame-Options: Same origin (in case frames are to be used in application) • Content-Security-Policy: default-src 'none' • Remove fingerprinting headers like X-Powered-By, X-AspNet-Version, etc. • Don't return sensitive data like credentials or security tokens in response • Return the proper status code according to the operation completed (e.g., 200 OK, 400 Bad Request, 401 Unauthorized, 405 Method Not Allowed, etc.). 		
5	Data Processing Security		Acceptable Criteria	
5.1	Ensure Object level authorization	<ul style="list-style-type: none"> • User's own resource ID should be avoided. Use /me/orders instead of /user/654321/orders • Don't auto-increment IDs. Use UUID instead 		
5.2	Ensure XML External Entities (XXE) prevention	<ul style="list-style-type: none"> • External entities' misconfiguration may lead to SSRF (Server-Side Request Forgery) and billion laugh attacks. Configure the XML parser to disable external entity resolution • The XML parser should be configured to use a local static DTD and disallow 		

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		any declared DTD included in the XML document		
5.3	Ensure data rate limiting	.Rate limit the data processing wherever applicable in order to avoid brute force attacks.		
5.4	Do not use test environment in production mode	Make sure your application is set to production mode before deployment. Running a debug API in production could result in performance issues & unintended operations such as test endpoints and backdoors. It may expose data sensitive to the organization or development team.		
6	Monitoring Security		Acceptable Criteria	
6.0	Ensure API logging & monitoring mechanism	The API logs must be stored in a centralized log management system. API monitoring includes auditing, logging, and version control for all APIs and their components. This helps in the troubleshooting process when and if a problem occurs.		
6.1	Limit number of API calls	Set a quota on the API calls count, i.e. put limitations on the number of times an API is called.		

App Security Review Checklist

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Mark (NA) if not applicable with Reason

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1.0 Application Components		Acceptable Criteria		
1.1	Are Application Components identified ?	Identify all application components (either individual or groups of source files, libraries, and/or executables) that are present in the application		
1.2	Are Application Dependencies identified ?	Identify all components that are not part of the application but that the application relies on to operate.		
1.3	Is the Application Architecture Defined ?	Identify a high-level architecture of the application.		
1.4	Are Application Business/Security Functions Identified ?	Identify all application components and defined in terms of the business functions and/or security functions they provide.		
2.0 Identification and Authentication		Acceptable Criteria		
2.1	Authentication of End-users: Is the authentication mechanism implemented for end users?	If the application contains only public information then user authentication may not be required. A user Authentication mechanism must be implemented if the application contains Confidential, Sensitive Information with PII, Sensitive or Private information. The strength of the authentication mechanism must be commensurate with the risk of the application. e.g. two factor authentication for Customer facing internet applications or digital Certificates.		
2.2	Authentication for Administrator: Is the authentication mechanism implemented for administrator?	An authentication mechanism for Administrator must be implemented for the application regardless of which class of data the application contains. The administrator authentication mechanism must be at least as strong as the user authentication mechanism.		
2.3	Unique ID for user Does the application use a unique login ID for each user?	The generation of login IDs of users must be uniquely identifiable to user. If the answer is "No" it is unacceptable.		

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2.4	Error Message for Failed login Attempts Does the application use a generic message for login attempts failures and account lockout?	All authentication controls fail securely. The error message for any failed login attempts and account lockout must be generic to prevent ID/Password guessing attacks. E.g. Invalid ID, Incorrect Password messages are not allowed. Log all authentication decisions. This should include requests with missing required information, needed for security investigations.		
2.5	User ID generation for Customer Are the identities generated based on the non-public information?	User identities should be generated without containing personal data e.g. personal data like ATM/Credit Card number, CNIC number. Email IDs can contain user names.		
2.6	Initial Password Does the application prompt to change the initial password?	Default passwords are changed following installation of system or software. Initial password should be pre-expired. Application should immediately prompt to change the initial password upon users first log into the application. Applications are configured to enforce password change upon first login whenever temporary password is issued (e.g., account re-activation after account lock out, or password reset request, etc.). In all cases, user authentication should be ensured, either by asking old password or by sending reset link to registered email address, etc.		
2.7	Clear Text Password Password is never displayed on the screen in clear text (with the exception of one time use password resets).	All password fields do not echo the user's password when it is entered, and that password fields (or the forms that contain them) have disabled autocomplete		
2.8	Static Password Strength Policy If static password are being used for authentication, is the strength policy being enforced to ensure password meets IT Security policy criteria, Password Expiration Notification, Password history, Maximum failed login attempts?	Password parameters shall be configured in accordance to NBP IT Security Policy as mentioned below: i. Password history should be maintained for at least 6 passwords. ii. Password Should be hard to guess. It should not constitute with the common predict phrases like names, Tel Number, Date of Birth, Anniversary, same as username etc. iii. Password must be Alpha-Numeric with both upper and lower case characters (e.g., a-z, A-Z) iv. Password change interval must not		

INSTRUCTIONS: To be completed by the Project Manager, developer, and ISO during the Definition, Technical Design and Validation Project Phases, except where noted as not required. Fill in all applicable sections. Use drop down menus where available. Insert N/A as appropriate.		Guide	Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
		<p>be less than one (1) day.</p> <p>v. Must have at-least one numeric and one special character e.g., 0-9, !@#\$%^&*()_+ ~-=\{}[]:"';<>?,./)</p> <p>vi. Account should be locked after 5 unsuccessful login attempts, and should only be unlocked upon receipt of request from valid user to the administrator or release of locked account automatically after 30 minutes is recommended.</p> <p>User Level</p> <ul style="list-style-type: none"> • Minimum 8 characters • Users should be forced to change on or before the expiry period of 45 days. <p>Privilege Level</p> <ul style="list-style-type: none"> • Minimum 12 characters • Privilege / admin users should change their password on or before password expiry policy setting of 90 days. 		
2.9	<p>Static Password Rules</p> <p>If static password are being used, are the following password rules enforced?</p> <p>Password should be different from username</p> <p>Password should not be easily guessable</p> <p>Password should not be blank</p>	<p>The strength of any authentication credentials are sufficient to withstand attacks that are typical of the threats in the deployed environment.</p> <p>Password should be different from username</p> <p>Password should not be easily guessable passwords e.g. 12345678, asdfasdf, etc.</p> <p>Password should not be blank.</p> <p>Static passwords must never be displayed on the screen in clear text.</p>		
2.10	<p>Session Inactivity Timeout</p> <p>Does the application enforce a session inactivity timeout?</p>	<p>Inactivity timeout for the users should be implemented to prevent unauthorized access of an active login session when the user is not present.</p> <p>Inactivity timeout period should be based on the application IS risk level which may be 5 to 15 minutes.</p>		
2.11	<p>Secure Authentication Protocol</p> <p>Is the application using the authentication based on the international standards</p>	<p>A secure mutual authentication protocol with a proper key management scheme to encrypt credentials (e.g. password) should be used. Examples are Kerberos, TLS.</p> <p>One time password or dynamic password can be sent in the clear over the network.</p>		
2.12	<p>Security Contexts</p> <p>Does the authentication server create unique security contexts for the authenticated users</p>	<p>secure session IDs / secure cookies / Kerberos tickets</p>		

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2.13	Dynamic Password System If a Dynamic password (one-time) system is used for authentication, it is approved by the Information Security and relevant stake holders.	All Dynamic password system must be reviewed by the Information Security before implementation.		
2.14	Digital Certificates and Certificate Authority (CA) If digital certificates are used, are they issued by approved CA?	Digital Certificates used by the application should be issued by approved CA authority/certificates provider e.g. VeriSign CA. Self-signed certificates can be used for testing purposes. PGP and point-to-point secure file transfer can be used where endpoint authentication is not required.		
2.15	Biometric Authentication if a Biometric Authentication mechanism is used by the application, is it approved by the IS?	Biometric authentication mechanism tend to be one-off solutions and are driven by business requirements (like ATM Authentication) therefore, they should be reviewed and approved by the IS to ensure they are secure.		
2.16	Two Factor Authentication if a two factor Authentication mechanism is used by the application, is it approved by the IS?	Two factor authentication or MFA should be reviewed by the IS/SME before the implementation.		
2.17	Single Sign-On (SSO) If the internet application is using shared authentication services, is it reviewed and approved by IS?	SSO or any shared authentication services should be reviewed by the IS/SME before the implementation.		
2.18	Logout Does the application allow users to completely log out from the application?	The application must provide the logout capability such that the user can completely log out of the application. Application forcefully terminates all existing session when the user logs out and/or web browser is closed without logout. After successful logout from the application: All Session parameters on client side and server side should be removed. Application should not resume the session upon manual redirection to previous page. Application should not allow the cached version of authenticated pages.		
2.19	Brute Force Attacks Is the resource governor controls in place to protect the application against vertical & horizontal brute forcing attacks?	The resource governor is in place to protect against vertical (a single account tested against all possible passwords) and horizontal brute forcing (all accounts tested with the same password e.g. "Password1"). A correct credential entry should incur no delay. Both these governor mechanisms		

INSTRUCTIONS: To be completed by the Project Manager, developer, and ISO during the Definition, Technical Design and Validation Project Phases, except where noted as not required. Fill in all applicable sections. Use drop down menus where available. Insert N/A as appropriate.		Guide	Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
		should be active simultaneously to protect against diagonal and distributed Attacks.		
3.0	Authorization / Access Control / Entitlement		Acceptable Criteria	
3.1	Authorization / Access Control / Entitlement If the application contains private or higher data, does the application provide mechanisms to control access based on the identity of the authenticated user.	Access control should be implemented and auditable. Users are given only those privileges necessary to perform their function. e.g. via entitlement profile / group / role base which are based on the Least Privilege. Access controls fail securely.		
3.2	Inactive / Obsolete Entitlement review Does the application support a mechanism to review inactive / obsolete entitlements	To ease entitlement review, it is beneficial if inactive/ obsolete entitlement can be shown by the application		
3.3	Entitlement Review report Does the application provides the complete details of all users entitlement in form of a report? Security Administrator should have the ability to generate these reports per department / unit for periodic user entitlement review.	To ease entitlement review, application should generate the complete entitlement report of users for periodic entitlement review. High risk application should be able to provide the fine-grained entitlements. Verify that all access control decisions are being logged and all failed decisions are logged.		
3.4	Functional ID Management Does the application have a defined owner who is responsible for all aspects of the Functional IDs including usage, entitlement review and password management			
3.5	Access Control for Privileged Actions Does the application enforce access control for the following privilege actions? <ul style="list-style-type: none">• Create, modify and delete user accounts and groups• Configure passwords or account lockout policy• Change passwords or certificates of user• Establish log sizes, fill threshold and behavior.	Access control on privileged access should be enforced to maintain system integrity. If least privilege cannot be enforced, compensating controls should be implemented to mitigate the risk (e.g. activity log review)		
3.6	Account management functions are account management functions secure.	All account management functions (such as registration, update profile, forgot username, forgot password, disabled / lost token, help desk or IVR) that might regain access to the account are at least as resistant to attack as the primary authentication mechanism.		

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		User and Access Management should be independent, not managed by the same team who is performing business operations/tasks in the application.		
3.7	Re-Authentication Is re-authentication required before any sensitive operations	Re-authentication is required before any application-specific sensitive operations are permitted. E.g. authenticating the customer again when conducting Financial Transaction or creating a beneficiary on an internet facing application		
3.8	Authenticity and Integrity of Authorization Data Is authorization data being stored on the client side (e.g. cookies, tickets) after the users get authenticated? If yes, is any mechanism being implemented to protect authorization data, prevent spoofing and maintain its integrity?	If authorization data is being stored on the client, it is important to ensure authorization data is protected/encrypted against unauthorized modification by the user. Ideally authorization data should be stored on the server to maintain data integrity.		
3.9	File and Directory Protection Is file and directory authorization enabled for user access control?	In addition to user entitlement, file and directory access control lists should be configured properly to protect the application's files against unauthorized access.		
3.10	Remote access System For internal application if non-NBP staff access this application remotely, is it over an approved solution which is reviewed and approved by IS?	All remote access to NBP systems / networks used by non-NBP staff (e.g. vendor) must be reviewed and approved by the IS.		
4.0	Data Confidentiality and Data Integrity	Acceptable Criteria		

INSTRUCTIONS: To be completed by the Project Manager, developer, and ISO during the Definition, Technical Design and Validation Project Phases, except where noted as not required. Fill in all applicable sections. Use drop down menus where available. Insert N/A as appropriate.		Guide	Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
4.1	<p>Input Validation Does the application validate user inputs? Is input validation performed on the server or Client side?</p>	<p>Web Application that take data input can be exploited by the following attacks: buffer overflow, cross site scripting (XSS), SQL injection, code injection, denial of service and elevation of privileges.</p> <p>Input is validated to check for valid types, formats, lengths, and ranges and to reject invalid input. This validation is more critical if input filenames, URLs or user names are used for security decisions. Input validation must be performed on the server side instead on the client side to prevent it from being bypassed. Input validation should be enforced for the following:</p> <ul style="list-style-type: none"> • Input from users • Parameter from URLs • Values from Cookies • Hidden fields to prevent SQL injection • Filter out character like single quotes, double quotes, slashes, back-slashes, semi colons, extended characters like NULL, carriage return, new lines, etc. in all strings • Convert a numeric value to an integer or check whether it is an integer before parsing it into an SQL statement. 		
4.2	<p>Data Protection in Transit Is the sensitive or above category data protected during transmission in certain specific environments.</p>	<p>Identify the list of sensitive data processed by this application and there is an explicit policy for how access to this data must be controlled, and when this data must be encrypted including data in logs and data in backups (both at rest and in transit). The transmission of data can take many forms including, but not limited to electronic file transfer (e.g. FTP), web traffic, e-mail, tapes, CDs, DVDs, Disk and so on.</p> <p>Transmission of sensitive PII should be encrypted.</p> <p>All cached or temporary copies of sensitive data are protected from unauthorized access or purged/invalidated after the authorized user accesses.</p>		
4.3	<p>Input length Does the application limit the length of each user input field?</p>	<p>The length of every field should be limited. Special characters should not be allowed as input. If needed, whitelist the characters which can be accepted.</p>		

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4.4	Input Manipulation Does the application prevent Sensitive and above data from being passed in clear ?	Sensitive and above data especially authentication data must not be passed in clear text to prevent it from being manipulated by users.		
4.5	Content Cache Does the application prevent Sensitive and above data from being cached on user's local disk.	Sensitive and above data should not be cached on user's local disk. It could be accomplished in web application by implementation HTTP response header with: 'Pragma:No-cache' for ASP or 'Cache-control: No cache' for JSP/Servlet.		
4.6	File Upload If the application supports file upload functionality, does it enforce the following a. Validate file extension/type, and file format. b. Run virus/malware scan on the uploaded file.	If data files are being uploaded to NBP servers from the external entity, the receiving server must have anti-virus software to scan files before processing. The controls should be in place to check the integrity of files such as Hashes. Only process the allowed/agreed file extensions. It is a sound practice to validate file extension / type, file format and run scan on the uploaded files, especially executables or other file type that can carry and propagate viruses.		
4.7	Data Protection in Storage Is data at the sensitive or above category protected in storage?	Sensitive and above category data must be protected/encrypted in storage and only accessible by respective users.		
4.8	Password Protection in Storage Is password data protected in storage	Account passwords are salted using a salt that is unique to each account and hashed before storing. All authentication credentials for accessing services external to the application are encrypted and stored in a protected location (not in source code).		
4.9	PII data Mask If the application has a feature to deliver or display an e-statement for customer account activities or to export production PII data, are customer account number/CNIC/credit card number partially masked?	Any combination of PII (personally Identifiable Information) that identifies an individual human being in a manner that would facilitate identity theft, credit fraud or other financial fraud must be protected against unauthorized access. Customer name or contact information in combination with CNIC number or tax number, passport number or account number is an example of Sensitive PII. Also note that when production data is exported for testing, PII data should be masked.		
5.0	Cryptography & Key Management	Acceptable Criteria		

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5.1	<p>Cryptographic Keys List all type of cryptographic keys such as symmetric, asymmetric, secure hash keys used in the solution. Describe their use scenarios and the security mechanisms associated with each cryptographic algorithm used</p>	<p>if encryption is used for authentication, data protection, key management, digital signature or other purposes, all cryptographic keys including their type, cryptographic algorithms and key length and secure hash algorithm must be listed as a pre-requisite for key management assessment. For instance, an application may implement 2048-bit RSA digital certificates for user authentication and key management, 128-bit AES for data protection in transit, and SHA-2 for password protection.</p>		
5.2	<p>Cryptographic Algorithms and Key lengths Do all cryptographic keys comply with current market standards/requirements? (AES/3DES/RC4, SHA-2/256, RSA etc.) and key length?</p>	<p>Security of the data encryption shall depend on secrecy of the key, not secrecy of the algorithm.</p> <p>All the cryptographic algorithms and key length being used must be validated against FIPS 140-2 or an equivalent current market standards/requirement, Symmetric keys: 168-bit 3DES, 128 AES</p> <p>Asymmetric keys: 2048-bit RSA or 256-bit ECDSA or ECDH</p> <p>Source hash: SHA2 (i.e. SHA-256/384/512)</p>		
5.3	<p>Key Generation & Management Are all cryptographic keys randomly generated using approved Random Number Generator? What type of random number generator is used by the application?</p>	<p>All cryptographic keys must be randomly generated by approved random number generator (e.g. as per NIST FIPS 140-2), also define how cryptographic keys are managed (e.g., generated, distributed, revoked, expired)</p>		
5.4	<p>Key Data Display if a manual key entry process is used, do utilities used to load or enter keys or key components prevent the display of the data loaded or entered in the clear?</p>	<p>Distribute the key between multiple custodians and prevent to display the keys in clear during entry</p>		
5.5	<p>Key Renewal Frequency Do all cryptographic keys have a defined renewal frequency period to comply with</p>	<p>Cryptographic keys should be changed on a periodic basis commensurate with the frequency of key use or exposure to eavesdropping or unauthorized access.</p> <p>E.g. • Key encryption: At least once per month (automated)</p> <ul style="list-style-type: none"> • Master keys or symmetric keys for authentication or key management : at least once per year (if manual renewal) • Cryptographic keys that cannot be renewed should have a pre-defined expiration period (e.g. 3 years of PIN generation keys) 		

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5.6	<p>Key Protection in Storage Are all symmetric and asymmetric (private) keys, except public keys, encrypted and stored in a hardware or software cryptographic module with proper access control?</p>	Cryptographic keys except public keys, must be encrypted in storage with proper access control. Access control must be preventing unauthorized access.		
5.7	<p>Hard-coding Cryptographic Keys Does the application prevent any encryption keys or passkey being included in the source code or configuration files?</p>	<ul style="list-style-type: none"> Hard coded keys that are manually set into code or part of the application and cannot be changed are not acceptable as the keys are known to developers and all instances of the application should use the same set of keys. Cryptographic keys being coded as the default should be configured and changeable during installation or configuration. if Cryptographic keys are hardcoded, they cannot be changed. Therefore, not acceptable. 		
5.8	<p>Certification Validation When digital certificates are used for the digital signature or authentication, is an up-to-date certification revocation list (CRL) used to verify the validity of the CA's and user's / server's certificates if an on-line certificate validation mechanism via Online Certificate Status Protocol (OCSP) or Server-based Certificate Validation Protocol (SCVP) is not available?</p>	<ul style="list-style-type: none"> When an online certificate validation protocol such as OCSP or SCVP is not supported. CRLs must be made available for servers to client's certificates or for the clients to server's certificate if certificates are used for digital signature or authentication. 		
5.9	<p>CRL renewal When a CRL is used for certification validation, are cached copies of CRLs updated regularly? If so, please describe the frequency (e.g. once per day). Is the frequency of update commensurate with the associated risk of the application.</p>	<ul style="list-style-type: none"> CRL (Certificate Revocation Lists) must be updated periodically. 		
5.10	<p>Key Recovery Compliance if the application is subject to supervisory or data retention requirements such as SBP - psd/2014/C3-Annex or section 7 of PS&EFT Act 2007 or any other key recovery requirements, is there a key recovery process to fulfill the regulatory requirements?</p>	<ul style="list-style-type: none"> To comply with NBP policy or other regulatory requirements, key recovery must be enforced, such as encrypted transactional messages or data can be decrypted and recorded for regulatory compliance, log all Cryptographic module failures 		
5.11	<p>Unique Key Does each cryptographic key have a unique application domain? For each party, there should be as many different keys as there are different cryptographic functionalities.</p>	<ul style="list-style-type: none"> Any particular key should be used for one particular purposes (e.g. signing, data encryption, Key encryption etc.) Keys used for in production environment must not be used for development or testing. 		
6.0	Error Handling & Audit Logging	Acceptable Criteria		

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6.1	<p>Auditing and Events</p> <p>Does the application have an auditing capability across application layers?</p> <p>Depending on the risk of the application, are audit logs and alerts of unauthorized access maintained?</p>	<p>The answer should be "Yes" since to comply with the NBP IT policy section 2.3.5.5</p> <p>Logging is performed before executing the transaction. If logging was unsuccessful (e.g. disk full, insufficient permissions) the application fails safe, this is for when integrity and non-repudiation are a must.</p> <p>Following significant events should be available for review:</p> <ul style="list-style-type: none"> • ID Management (Create, Delete, Modify, Suspend, Resume) • Successful / Unsuccessful user login attempt • Account Lock out • Account Lock/Unlock • Group Creation • Creation or modification of application roles/ profiles • Creation/modification/deletion of user rights • Password Forget • Password Resets • Password Change • Change in Application/System security configuration • Alarms associated with a firewall or IDS/IPS • Financial Transaction or Sensitive PII data • Security Validation failure • Session Management failure • Application/Service Start/Stop • Suspicious/Fraud and other criminal activities 		

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6.2	Audit Events contents Does the individual audit event contain the necessary attributes?	<p>Each log entry needs to include sufficient information for the intended subsequent monitoring and analysis. The application logs must record "when, where, who and what" for each event. All auditable events must give enough information to trace the event to a particulars but not limited to the following:</p> <ul style="list-style-type: none"> • Unique log identifier • The user ID or the process ID of the event • System, application, module or component • Data and Time of the event • Application address e.g. IP address or machine name and port number • Resource ID e.g. window, URL, page, form, method • Service Protocol • Source Address e.g. user/service IP address • Device Identifier e.g. IMEI, MAC • User, object Identity • Type of the event • Log Level • Success or failure of an event • Starting and ending time of access to the application • Description 		
6.3	Admin activities Does security Administration activities for this system are logged and traceable to User ID?	<p>To achieve the non-repudiation, Default application/DB/OS accounts should be identified and disabled where possible. If cannot disabled, default password should be changed with whitelisting and also define the ownership of these accounts.</p> <p>Service/functional accounts should be identified and their purpose shall be documented and approved by the relevant senior management along with the defined ownership and protection of credentials in storage and transmission.</p> <p>Service accounts should not have interactive login rights unless there is a valid business or technical need.</p> <p>Passwords for service/admin accounts should be in dual controlled as split knowledge and escrowed or managed via privileged id management solution. Password of these accounts should be</p>		

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		more complex.		
6.4	<p>Audit Log Protection Are audit logs in store and during transmission, protected from unauthorized deletion, modification and disclosure? i.e. Administrator should not have the ability to modify / edit the logs</p>	<p>Audit Logs must be protected against unauthorized access to ensure its integrity and maintain accountability. The application does not output error messages or stack traces containing sensitive data that could assist an attacker, including Session ID and personal information.</p>		
6.5	<p>Audit Log File Configuration Can the audit log files be configured for log size and rollover to prevent log file data loss and a denial of service attack?</p>	<p>Audit Logs should be automatically roll over unless it can be ensured that the audit logs have been backed up or archived. Audit log file size should be configurable to prevent a denial of service attack or application handles log size issue automatically. Rollover must always be configurable.</p> <p>Access to audit logs including administrative activities is restricted for access.</p> <p>Audit logs should be protected against data tempering and un-authorized access.</p> <p>Credentials, PAN, PII, PIN block, etc. must not be the part of logs in plain text.</p>		
6.6	<p>SIEM Integration Is application capable to integrate with SIEM</p>	<p>Application should be able to integrate with SIEM solution.</p> <p>SIEM is available which allows the analyst to search for log events based on combinations of search criteria across all fields in the log record format supported by this system.</p>		
6.7	<p>Audit Log Notification Are administrators warned when the audit logs are nearly full?</p>	<p>It is desirable to have a mechanism to warn administrator when the audit logs are nearly full to prevent an application from shutting down, from a denial of service or from overriding previous logs.</p>		
6.8	<p>Reports Does the application have an ability to generate custom audit reports based on the criteria specified by the log reviewer?</p>	<p>It is desirable to have a capability to generate audit reports based on a number of criteria specified by the log reviewer.</p>		
7.0	Security Administration	Acceptable Criteria		

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7.1	Functional ID If the application is using functional IDs (e.g. root in Linux/Unix, Administrator in Windows), are they protected against unauthorized usage?	<p>It is important to list any functional IDs that exist and if any internal application or third party controls can be placed on the system to decrease the privileges associated with these accounts. Also controls should be in place for any system functional IDs to prevent unauthorized usage. In general, the existence of all power administration IDs is not desirable.</p> <p>Default application/DB/OS accounts should be identified and disabled where possible. If cannot disabled, default password should be changed with whitelisting and also define the ownership of these accounts.</p> <p>Service/functional accounts should be identified and their purpose shall be documented and approved by the relevant senior management along with the defined ownership and protection of credentials in storage and transmission.</p> <p>Passwords for service/admin accounts should be in dual controlled as split knowledge and escrowed or managed via privileged id management solution. Password of these accounts should be more complex.</p>		
7.2	Service Accounts Are service/database ids only used by the applications and not used by individual users or other processes	<p>The application backend IDs such as database, service accounts are restricted and only allowed by the application. These accounts would not be accessible by any individual users. Service accounts should not have interactive login rights.</p>		
7.3	Separation of Roles Does the application split administration privileges into several accounts (e.g. system administration, Security Administration)?	<p>According to the principle of least privilege it is desirable for administrative accounts to have the least privilege needed to perform a particular function. It is describable to have separate administrative roles to perform system management, security management and audit. If separation of roles cannot be enforced, then the application must have provisions (e.g. auditing to ensure the accountability of the privileged accounts.</p>		

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7.4	Administrator's Conflict of Interest Does the application prevent a security administrator from performing transactions or administrative functions for themselves that conflict with this role?	The application should not allow security administrator to create or modify user accounts for themselves. In case there is a business requirement to allow such action, then an independent verification or maker/checker process must be implemented and all such actions must be audited.		
7.5	Maker/Checker for Administrative Actions Does the application support maker/checker or dual-control for administrative actions (e.g. account creation / modification, entitlement management).	It is describable to have internal maker/checker or dual-control for administration actions such as account creation/modification and entitlement management. When maker/checker or dual-control cannot be implemented, an independent verification process must be enforced.		
8.0	System Security and Availability		Acceptable Criteria	
8.1	Application Identity Is the application or web server running as a non-privileged user (e.g. non-root or non-administrator)?	If possible, the application or web server should run as non-privileged user, especially when this is a customer facing application. This provision should be implemented to reduce/control damage in case the application is compromised.		
8.2	Application Integrity Is there a mechanism to protect application configuration stores and maintain the integrity of critical application files?	It is important to protect application configuration stores and critical files with access control. This include all share folder for data and system files.		
8.3	BCP/DR Does the application support redundancy or replication for continuity of business or automatic fail-over?	Automatic fail-over is commonly required for mission-critical applications for high availability. However, some low criticality application may not have a BCP/DR requirement or manual process (last updated data restoration on contingency server). It is a business decision to determine whether it is required or not.		
8.4	DDOS attack Are controls in place to prevent a denial of service (DOS) attack on this system?			
9.0	Network Architecture and Perimeter Security		Acceptable Criteria	
9.1	Perimeter Security For Applications deployed in the DMZ, does the application prevent unauthenticated users from the Internet from accessing a server on our intranet?	For Internet applications, unauthenticated users must not be allowed to directly access the server or Intranet to prevent hackers from exploiting vulnerabilities on the server that would first compromise the server and then internal infrastructure. Users must be authenticated on a server in		

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		the DMZ (e.g. a web or VPN server) before interacting with another server on intranet. For B2B application, B2B server/devices must be placed in the DMZ to perform authentication.		
9.2	<p>3-Tier Architecture Does the application support at least 3-Tier Architecture (e.g. web server, application server and backend server/database) to protect data from being directly accessed from the web server in the DMZ.</p>	For Internal web applications, especially financial application or application that provide personal data, it is desirable to have at least a 3-tier architecture (3 tiers may include the tiers of web server, application server and backend server or database server) to protect the backend server/database from being directly accessed from the web server and being compromised.		
9.3	<p>Persistent Storage on the DMZ if this is an Internet-based application, does the application prevent Confidential and above data from being persistently stored on a system in the DMZ?</p>	Confidential and above category data should not be persistently stored on a system in the DMZ. i.e. Persistently stored means storage beyond the session lifetime.		
9.4	<p>System-to-System Authentication Does the application support system-to-system authentication or the authentication at the application layer for communication between any two servers to prevent unauthorized access?</p>	System-to-system authentication or authentication at the application layer should be implemented for communication between any two servers to prevent unauthorized access. Network access control such as SSL or IPsec could be used as a compensating control if system-to-system authentication or authentication at the application layer is not implemented. Note that IPsec is consider as the last resort.		
10.0	Session Management	Acceptable Criteria		
10.1	<p>Session Management Does the authentication server(s) implements a session management mechanism to manage active login sessions and to prevent spoofing/masquerading?</p>	<p>Session management for this case is used to record the states of active login sessions and to retire inactive sessions when they time out. Session management should have the following properties:</p> <ul style="list-style-type: none"> • Unique session identification • Session Identification that are protected in transit and in storage against unauthorized access. • An inactivity time out mechanism <p>Idle session timeout in applications is set to 5 to 15 minutes, based on asset classification.</p>		

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10.2	Application Logout Does the application have a logout functionality on every screen that is available for authenticated user?	When a user logs out, the application must completely log the user out and prevent the user from accessing pages or information that is available to active authenticated users.		
10.3	Session Identifier Generation Does the application generate session identifiers (IDs) with a sound pseudo-random number generator?	Session management is required for web applications because they are based on the stateless HTTP protocol. Therefore, session management is critical to the overall security of web applications. A sound session management scheme should be able to generate unique and unpredictable session IDs, restrict session lifetime, and protect session IDs. Authentication session ID should be changed upon each login.		
10.4	Session State Store Does the application protect its session state store against unauthorized access?	The session state store can be local or remote. Session state data should be protected against eavesdropping and unauthorized access. If session state store is remote then the data in transit should be encrypted with a secure protocol such as SSL or IPsec and the data in store should be protected against unauthorized access.		
10.5	Session Lifetime Does the application restrict session lifetime and enforce the maximum login period for a session?	Prolonged session lifetime would increase the risk of session hijacking and reply attacks. Therefore the application should restrict session lifetime to reduce the risk. IS Policy requirements of inactive user session <ul style="list-style-type: none"> • 5 minutes for Critical System that are classified as sensitive; • 10-15 minutes for other classified systems based on business need 		
10.6	Session Identification Passage Does the application prevent session identifiers from being passed over unencrypted channels?	If session IDs are used to track session states, then session IDs or cookies containing session IDs should be passed via encrypted channels (e.g. SSL/TLS) to prevent eavesdropping.		
10.7	Session Identifier Manipulation Does the application prevent users from manipulating session identifiers that are being passed in query string or from fields?	Session IDs should not be passed via query string or from fields because they can be easily modified by the users in an attempt to impersonate other users.		

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10.8	Session Cookies Does the application encrypt session cookies?	Session (authentication) cookies should be encrypted to prevent session cookies from being stolen. Session cookie encryption along with SSL/TLS can mitigate the risk of cross-site scripting (XSS) attacks. Session cookies values that are created in insecure session should not be inherited in secure session cookies.		
10.9	Session Cookies Validation If session cookies are used by application, does the application validate the cookies before granting access to protected pages?	Cookies that contain Restricted or authentication data must be marked secure, so that they are sent only over encrypted channel, namely SSL/TLS. Cookies that contain Sensitive PII must be marked secured when transmitting via non-NBP managed infrastructures.		
10.10	Secure Cookies If the application uses cookies containing Sensitive or Higher information, are the cookies marked secured so that the cookies are sent only over encrypted channels AND is the cookies content encrypted using approved method?	Cookies that contain Sensitive+ data must be marked secure, so that they are sent only over encrypted channels, namely SSL/TLS. Cookies that contain Sensitive PII must be marked secured when transmitting via non-NBP managed infrastructures.		
11.0	Database Access		Acceptable Criteria	
11.1	Database Authentication Does the application server utilize the database authentication to directly connect to the database instead of user account authentication at the application level?	The Application Server may use a database account or an application account to establish the database connectivity. When the user accounts in the Application are tightly coupled with the database accounts, the database is accessible by all legitimate users on the platform. To enforce the principle of least privilege, it is more secure for application to use separate database accounts for DB authentication. In case where a user account on the Application server used to access the database, a least privileged account should be created.		
11.2	Database Password Protection in Storage Does the application protect/encrypt database connection strings (e.g. passwords) in local storage?	Database connection string contain authentication data and therefore must be encrypted in storage in config file. It should not be hardcoded. Encrypted connection string and encryption keys must be protected. The function of decrypting connection string should be a standalone utility to prevent the connection string from being decrypted and display in the clear. Instead, it should be embedded into or fully integrated within the application.		

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11.3	Database Password Protection in Transit Does the application enable/implement a secure protocol (e.g. SSL/TLS) to protect database passwords in transit?	If database connection string contains passwords it must be encrypted in the transit. In general, most database system support a secure protocol (e.g. SSL / TLS) for this purpose. When a secure protocol cannot be enabled or applied. IPsec or other secure protocol can be considered as a last resort for host-to-host encryption.		
12.0	Legal / Regulatory Compliance, Management Approval & Awareness	Acceptable Criteria		
12.1	Additional Legal or Regulatory Requirements Does the application comply with all regulatory / local laws which are not included in the Information Security policy.	Each and every application must comply with Legal/Regulatory/IS requirements.		
12.2	Banner Text Approval Is the Legal Department approved banner text, when supported by the application, displayed at all entry points where a user initially signs on?	If there is a need to support banner tax, legal-approved banner text must be displayed at all entry points where a user initially signs on either from local or remote access.		
13.0	Application Configuration and IS Processes	Acceptable Criteria		
13.1	Information Classification Has the information been classified in accordance with NBP Information Standards?	<p>NBP Information system(s) assets must be given a classification level in accordance with the NBP approved classification standard.</p> <ul style="list-style-type: none"> Confidential Information that is considered to be very sensitive to business and is intended for internal use only by following the need to know principle. Unauthorized disclosure of this level of information could seriously and negatively impact bank's reputation and may cause significant business loss. Sensitive Information that requires a higher level of protection than normal from unauthorized disclosure or alteration. Unauthorized disclosure / alteration of such information may negatively impact bank's reputation or can cause legal implications. Private Proprietary information that is being developed for NBP internal use and being shared among the NBP employees only. Property of NBP and disclosure of such information could affect the NBP business or employees. Public Information either collected from public sources or being produced for public review. Disclosure of such information will not have an impact to NBP business & employees. 		

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13.2	Inherent Risk of the Application Has an inherent risk analysis been completed by the business during the definition phase of the project?	IS Risk Assessment is a mandatory requirement, Risk Assessment lifecycle must be completed in coordination of IS Risk team.		
13.3	Vendor Support Product Is the application software supported by an approved vendor?	Application vendor must be in the NBP's approved vendor list.		
13.4	Default Access Capability Are all default access capabilities (including passwords) removed, disabled or protected to prevent their unauthorized use?	No default ID should be used or enabled. Default IDs should be renamed and password split and escrowed with IS		
13.5	Vulnerability Assessment If required, has the application undergone all of the Application vulnerability Assessment and remediated all security findings as specified in the VA process.	If VA is required for this application, the required VA (Internal or External) must be performed and all security findings with the medium and High risk level must be remediated with the timeframe specified in the VA process.		
13.6	Masking Data Is sensitive PII information masked within the application whenever possible (displaying as well as printing)?	By the GLBA act, financial institutions must protect the security and confidentiality of customer's nonpublic personal Information (NPI). When NPI is being displayed or printed, it should be partially masked and only the last four digits can be displayed or printed for identification or verification.		
13.7	Configuration location are application configuration files protected from unauthorized access?	All security-relevant configuration information is stored in locations that are protected from unauthorized access.		
13.8	Configuration Error is application capable of handling configuration errors?	If the application cannot access its security configuration, all access to the application should be denied and do not allow access using default configuration.		
13.9	Audit Configuration Changes is auditing enabled to track application configuration changes?	All changes to the security configuration settings managed by the application are logged in the security event log.		
13.10	Fax Are automated or manual fax processes used in connection with the transection of data to/from the system? If yes describe the controls around the fax process.	If sensitive or above information must be sent over Fax, specific procedures and guidance must be created and followed to mitigate the risk. Fax cannot support user authentication nor data confidentiality. Manual authentication of the source and verification of the data may be conducted to mitigate the risk and such action may need to be logged/recorded for accountability.		

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14.0	Compliance	Acceptable Criteria		
14.1	3rd Party Solution is it certified by PCI, Common Criteria?	The solution related to Card processing must be certified by PCI, Common Criteria min Level 3+.		
14.2	Have any non-compliance being found as a result of this review? If True, provide corrective action plan and/or RA numbers in the "Open Issues and Approvals" TAB of this document			

Web Application Checklist

** Bidders must submit supporting documentation for each applicable line item with their response. Incomplete responses will be deemed ineligible. If a response is deemed inadequate or insufficient, the bidder must provide a detailed justification.

Mark (NA) if not applicable with Reason

The ITPM should complete this checklist with the project's developers in order to ensure compliance. This reflects best industry practice and correlates directly to issues that are identified during Vulnerability Assessments.		Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
1.0 Application Verification			
1.1	The integrity of interpreted code, libraries, executables, and configuration files is verified using checksums or hashes.		
2.0 Authentication			
2.1	All pages and resources require authentication except those specifically intended to be public.		
2.2	All password fields do not display the user's password when it is entered, and that password fields (or the forms that contain them) have autocomplete disabled.		
2.3	If a maximum number of authentication attempts is exceeded, the account is locked for a period of time long enough to deter brute force attacks.		
2.4	All connections to external systems that involve sensitive information or functions are authenticated.		
2.5	The forgotten password function and other recovery paths do not reveal the current password and that the new password is not sent in clear text to the user. user authentication should be ensured, either by asking old password or by sending reset link to registered email address, etc.		
2.6	The username enumeration is not possible via login, password reset, or forgot account functionality.		
2.7	All authentication controls are enforced on the server side.		
3.0 Session Management			
3.1	The framework's default session management control implementation is used by the application.		
3.2	Sessions are invalidated when the user logs out.		
3.3	Sessions timeout after a specified period of inactivity Or when password is changed.		
3.4	Sessions timeout after an administratively-configurable maximum time period regardless of activity (an absolute timeout).		
3.5	All pages that require authentication to access them have logout links.		
3.6	The session id is never disclosed other than in cookie headers; particularly in URLs, error messages, or logs. This includes verifying that the application does not support URL rewriting of session cookies.		
3.7	The session id is changed upon each login.		
3.8	The session id is changed upon re-authentication.		
3.9	The session id is changed or cleared on logout.		
3.10	Only session ids generated by the application framework are recognized as valid by the application.		
3.11	Authenticated session tokens are sufficiently long and random to withstand attacks that are typical of the threats in the deployed environment.		
3.12	Cookies which contain authenticated session tokens/ids have their domain and path set to an appropriately restrictive value for that site. The domain cookie attribute restriction should not be set unless for a business requirement, such as single sign on.		
3.13	Verify that authenticated session tokens using cookies sent via HTTP, are protected by the use of "HTTP Only".		

The ITPM should complete this checklist with the project's developers in order to ensure compliance. This reflects best industry practice and correlates directly to issues that are identified during Vulnerability Assessments.		Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
3.14	Verify that authenticated session tokens using cookies are protected with the "secure" attribute and a strict transport security headers are present.		
3.15	Verify that the application does not permit duplicate concurrent user sessions, originating from different machines.		
4.0 Access Control			
4.1	Users can only access URLs for which they possess specific authorization.		
4.2	Direct object references are protected, such that only authorized objects are accessible to each user.		
4.3	All connections to external systems that involve sensitive information or functions use an account that has been set up to have the minimum privileges necessary for the application to function properly.		
4.4	Directory browsing is disabled unless deliberately desired. Disable web server directory listing and ensure file metadata (e.g., .git) and backup files are not present within web roots.		
4.5	The same access control rules implied by the presentation layer which are enforced on the server side, such that controls and parameters cannot be re-enabled or re-added from higher privilege users.		
4.6	All user and data attributes and policy information used by access controls cannot be manipulated by end users unless specifically authorized.		
4.7	Verify the system can protect against aggregate or continuous access of secured functions, resources, or data. For example, possibly by the use of a resource governor to limit the number of edits per hour or to prevent the entire database from being scraped by an individual user.		
4.8	There is a centralized mechanism (including libraries that call external authorization services) for protecting access to each type of protected resource.		
4.9	Verify that the application or framework generates strong random anti-CSRF tokens unique to the user as part of all high value transactions or accessing sensitive data, and that the application verifies the presence of this token with the proper value for the current user when processing these requests.		
4.10	Limitations on input and access imposed by the business on the application (such as daily transaction limits or sequencing of tasks) cannot be bypassed.		
4.11	All access controls are enforced on the server side.		
5.0 Input Validation			
5.1	The runtime environment is not susceptible to buffer overflows, or that security controls prevent buffer overflows.		
5.2	All input validation failures result in input rejection.		
5.3	All input validation or encoding routines are performed and enforced on the server side.		
5.4	Single/Centralized input validation control is used by the application for each type of data that is accepted.		
5.5	All input validation failures are logged.		
5.6	All input data is canonicalized for all downstream decoders or interpreters prior to validation.		
5.7	The runtime environment is not susceptible to SQL,LDAP,OS,XML Injection, or that security controls to prevent the Injection attacks.		
5.8	All untrusted data that are output to HTML (including HTML elements, HTML attributes, JavaScript data values, CSS blocks, and URI attributes) are properly escaped for the applicable context.		

The ITPM should complete this checklist with the project's developers in order to ensure compliance. This reflects best industry practice and correlates directly to issues that are identified during Vulnerability Assessments.		Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
5.9	If the application framework allows automatic mass parameter assignment (also called automatic variable binding) from the inbound request to a model, verify that security sensitive fields such as account Balance, role, password etc. are protected from malicious automatic binding.		
5.10	The application has defenses against HTTP parameter pollution attacks, particularly if the application framework makes no distinction about the source of request parameters (GET, POST, cookies, headers, environment, etc.)		
6.0 Output Encoding/Escaping			
6.1	All untrusted data that are output to HTML (including HTML elements, HTML attributes, JavaScript data values, CSS blocks, and URI attributes) are properly escaped for the applicable context.		
6.2	All output encoding/escaping controls are implemented on the server side.		
6.3	Output encoding /escaping controls encode all characters not known to be safe for the intended interpreter.		
6.4	All untrusted data that is output to SQL interpreters use parameterized interfaces, prepared statements, or are escaped properly.		
6.5	All untrusted data that are output to XML,LDAP,OS use parameterized interfaces or are escaped properly.		
6.6	All untrusted data that are output to any interpreters not specifically listed above are escaped properly.		
6.7	For each type of output encoding/escaping performed by the application, there is a single/centralized security control for that type of output for the intended destination.		
7.0 Cryptography Requirements			
7.1	All cryptographic functions used to protect secrets from the application user are implemented on server side.		
7.2	All cryptographic modules fail securely.		
7.3	Access to any master secret(s) is protected from unauthorized access (a master secret is an application credential stored on disk which is used to protect access to security configuration information).		
7.4	Password hashes are salted uniquely when they are created.		
7.5	Cryptographic module failures are logged.		
8.0 Error Handling and Logging			
8.1	All logging controls are implemented on the server.		
8.2	Verify security logging controls, provide the ability to log both success and failure events that are identified as security-relevant.		
8.3	All events that include untrusted data will not execute as code in the intended log viewing software.		
8.4	Single logging implementation is used by the application.		
8.5	Application does not log application-specific sensitive data that could assist an attacker, including user's session ids and personal or sensitive information.		
8.6	All code implementing or using error handling and logging controls is not affected by any malicious code.		
9.0 Data Protection			
9.1	All forms containing sensitive information have disabled client side caching, including autocomplete features.		

The ITPM should complete this checklist with the project's developers in order to ensure compliance. This reflects best industry practice and correlates directly to issues that are identified during Vulnerability Assessments.		Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
9.2	All sensitive data is sent to the server in the HTTP message body (i.e., URL/GET parameters are never used to send sensitive data).		
9.3	All cached or temporary copies of sensitive data sent to the client are protected from unauthorized access or purged/invalidated after the authorized user accesses the sensitive data (e.g., the proper no-cache and no-store Cache-Control headers are set).		
9.4	There is a method to remove each type of sensitive data from the application at the end of its required retention period.		
10.0 Network Communication Security			
10.1	A path can be built from a trusted CA to each Transport Layer Security (TLS) server certificate, and each certificate is valid. Encrypt all data in transit with secure protocols such as TLS with forward secrecy (FS) ciphers,		
10.2	Failed SSL/TLS connections do not fall back to an insecure connection.		
10.3	SSL/TLS is used for all connections (including both external and backend connections) that are authenticated or that involve sensitive data or functions.		
10.4	SSL/TLS connection failures are logged.		
10.5	Certificate paths are built and verified for all client certificates using configured trust anchors and revocation information.		
10.6	All connections to external systems that involve sensitive information or functions use an account that has been set up to have the minimum privileges necessary for the application to function properly.		
10.7	There is a single standard SSL/TLS implementation that is used by the application that is configured to operate in an approved mode of operation		
11.0 HTTP Security			
11.1	" Redirect " (i.e. 302 Object moved) do not include invalidated data. Form data redirect may be hijacked if compromised or mismanaged. If it is redirected to a site in a different domain, the users cannot tell whether the site is trusted or not before sensitive data contained in the form are submitted. Therefore, we recommend to NOT implement "redirect" when accepting sensitive information from user forms.		
11.2	The application accepts only a defined set of HTTP request methods, such as GET and POST.		
11.3	Every HTTP response contains a content type header specifying a safe character set (e.g., UTF-8).		
11.4	The HTTP Only flag is used on all cookies that do not specifically require access from JavaScript.		
11.5	The secure flag is used on all cookies that contain sensitive data, including the session cookie.		
11.6	HTTP headers in both requests and responses contain only printable ASCII characters and do not expose detailed version information of system components.		
11.7	The HTTP header, X-Frame-Options is in use for sites where content should not be viewed in a 3rd-party X-Frame. A common middle ground is to send SAME ORIGIN, meaning only websites of the same origin may frame it.		
11.8	The application generates a strong random token as part of all links and forms associated with transactions or accessing sensitive data, and that the application verifies the presence of this token with the proper value for the current user when processing these requests.		
11.9	The HTTP header can be easily manipulated by an attacker and must not be used for		

The ITPM should complete this checklist with the project's developers in order to ensure compliance. This reflects best industry practice and correlates directly to issues that are identified during Vulnerability Assessments.	Answer (True, False, N/A)	Provide the Reason, Justification and Attach the Documents (where applicable)
security decisions.		

6. Questionnaire for FinTech Pre-Qualification – Screening Criteria

1. Alignment with NBP Goals

Objective: To assess how well Digital Supply Chain Financing Platform Proving FinTech's offerings align with NBP's strategic objectives.

1. Provide a brief overview of your company and its core financial technology offerings.
2. How does your solution contribute to financial inclusion? (Provide relevant case studies or examples.)
3. What specific pain points in the banking industry does your solution address?
4. Describe how your technology enhances customer experience.
5. Explain how your solution drives digital innovation within the banking sector.

2. Regulatory Compliance

Objective: Verify compliance with SBP regulations, AML/CFT policies, and international standards.

1. Are you registered with the State Bank of Pakistan (SBP) or any other relevant regulatory body? (Yes/No) If yes, provide registration details and certifications.
2. Does your company comply with AML/CFT regulations as per SBP guidelines? (Yes/No) If yes, provide compliance reports or certifications.
3. Have you ever faced regulatory action or penalties related to compliance violations? (Yes/No) If yes, explain the nature of the issue and how it was resolved.
4. What data protection and cybersecurity measures do you have in place to ensure compliance with regulatory standards?

3. Technical Feasibility

Objective: Assess the compatibility of the FinTech's technology stack with NBP's infrastructure.

1. Describe your technology stack, including core platforms, APIs, and integrations.
2. Is your system compatible with the following technologies? (Check all that apply)
 - Core Banking Systems
 - Open Banking APIs
 - Cloud-based Infrastructure

- On-premises Integration
- Blockchain Technology

3. What security measures are in place to protect customers and transaction data?
4. Have you conducted third-party security audits or penetration testing? (Yes/No) If yes, provide reports.
5. What is the average system uptime and performance reliability of your solution?
6. How does your system handle large-scale transaction processing?

4. Scalability

Objective: Determine the ability of the solution to scale with growing demand.

1. How many active Anchors and Suppliers does your platform currently support?
2. What is the maximum transaction volume your system can handle per second?
3. Have you previously scaled your solution for high-demand scenarios? Provide examples.
4. What are the key scalability challenges your platform faces, and how do you address them?
5. Can your platform support multi-region or international banking operations? (Yes/No)
6. Do you have a Local cloud-based or hybrid infrastructure to ensure scalability? (Yes/No)

5. Financial Stability

Objective: Evaluate financial health and long-term viability.

1. Provide audited financial statements for the last three years.
2. What is your company's current capital structure and funding sources?
3. Have you secured any external investments or funding rounds? Provide details.
4. Have you experienced any significant financial losses in the past three years? (Yes/No) If yes, explain the reasons and recovery measures taken.
5. Do you have any pending litigation or financial disputes? (Yes/No) If yes, provide details.

7. Hardware & Infrastructure Requirements for Pre-Qualified Technical Partners **Hosting and Access Arrangements**

All technical partners pre-qualified under this process will maintain their own hosting arrangements for their digital supply chain financing platforms. The National Bank of Pakistan (NBP) will not provide any hosting infrastructure, nor will it allow any integration with its internal systems.

NBP will maintain independent infrastructure, such as dedicated laptops or computers, to access the digital supply chain financing platform. Users of NBP accessing these platforms will not establish any direct or indirect connectivity with the internal network of NBP. Furthermore, these digital supply chain financing platforms will not be whitelisted within NBP's network.

Confidentiality & Data Management

NBP will be responsible for uploading and maintaining all customer-related data on the digital supply chain financing platform. This includes, but is not limited to:

- Customer Name
- Number of invoices financed
- Approved credit limits
- KIBOR implementation details
- Applicable SPREAD and MARGIN%

This information will remain strictly confidential, and NBP will enter into a formal confidentiality agreement with all pre-qualified financial technology vendors. Under this agreement, vendors will be legally bound to maintain the secrecy of all customer data. Any violation of this confidentiality clause will result in immediate disqualification and a formal request to the regulatory authorities of Pakistan for blacklisting the offending vendor.

Platform Independence & Security Measures

NBP's digital supply chain financing operations will be conducted on separate hardware with no integration with any internal banking system, including:

- **Core Banking System**
- **Email Exchange Server**
- **SMS Gateway**

No form of system integration will be permitted. All invoices submitted for financing will be verified manually by NBP users, and disbursements will be handled within the core banking system independently and separately. Reporting and payments will be updated manually on the platform following the predefined operational procedures.

The Applicant will be responsible for managing the email and SMS relay features at their own expense and arrangement. NBP will not bear any costs related to these functionalities.

Technical Partner Hosting Model

It has been observed that existing digital supply chain financing platform providers in the industry typically operate on an income-sharing model and host their systems either in local or international cloud environments. Given this standard practice, NBP will not provide any separate servers for hosting purposes. Instead, technical partners must ensure secure access to their platforms for NBP users via dedicated standalone computers.

Data Privacy Agreement & Regulatory Compliance

As part of the pre-qualification criteria, all technical partners must enter into a Data Privacy Agreement with NBP. This agreement will bind both the anchor technical partner (supplier) and NBP to strict confidentiality standards regarding customer data. Any breach of this agreement will lead to severe consequences, including disqualification and regulatory action.

These provisions outline the high-level approach for hardware and infrastructure requirements in the pre-qualification phase. Further refinements and discussions may be undertaken as the project progresses.

8. Payment Terms & Conditions

1. Price Schedule

OPEX:

Item *
i. The Fintech / Applicant will receive a 20% revenue share from this collaboration.
ii. This share will be calculated based on the direct revenue generated, minus all direct and indirect costs associated with this collaboration.
iii. All applicable taxes (SST/GST) are included within the Fintech's / Applicant's revenue share.

* Pricing Model and Income Sharing Ratio - Further Explanation and for better understanding only:

Field	Value
Invoice Amount	100,000
Kibor (%)	15
Banking Spread (%)	2
Total Interest (%)	17
Total Interest Amount	17,000
Spread Amount	2,000
National Bank's Share of Banking Spread	1,600 (80% of 2,000)
Applicant's Share of Banking Spread	400 (20% of 2,000)
Final Price (National Bank)	1,600
Final Price (Applicant)	400

Income Sharing:

- Only the spread amount is shared between the National Bank and the Applicant.
- The KIBOR amount is not part of the income sharing.
- In the example, the banking spread amount is 2,000.
- The income sharing ratio is 80:20, then:
 - The National Bank gets 80% of the spread: 1,600
 - The Applicant gets 20% of the spread: 400

In Essence:

- The Applicant's earnings come solely from their share of the banking spread against each financed invoice.
- By understanding these components, Applicants can accurately calculate their potential earnings based on the given parameters and the **proposed income-sharing** ratio.
- In the event that the Bank decides to extend the contract for an additional period of up to 5 years, the terms and conditions of the original contract, including the income-sharing ratio, shall continue to apply. The Supplier shall be responsible for providing ongoing support and maintenance services during the extension period, ensuring the continued smooth operation of

the system. The specific terms and conditions of the extension, including any adjustments to the service level agreements or pricing, shall be mutually agreed upon by the Bank and the Supplier in a separate amendment to the original contract.

4. The Applicant shall propose a specific income-sharing percentage, outlining the division of revenue generated from the system. All revenue and payments related to the income-sharing arrangement shall be denominated in Pakistani Rupees (PKR).
5. NBP will make all payments in Pakistan Rupees (PKR) only.
6. SST/GST, any other tax, excluding withholding tax or income tax if imposed by the government of Pakistan after signing the contract, will be borne by the Applicant (FinTech).

2. Payment Structure for Revenue-Sharing Agreement

The Bank shall make quarterly payments to the Supplier based on the agreed-upon (80-20) income-sharing percentage of the banking spread on each invoice processed through the system (DSCF). The payment shall be made at the end of each quarter, subject to the Applicant providing the Bank with the following:

- a. **Consolidated Quarterly Invoice:** A consolidated invoice for the quarter, clearly outlining the total number of transactions processed, the total spread generated, and the applicant's share as per the agreed-upon percentage.
- b. **Detailed Transaction Reports:** Detailed transaction reports for each invoice processed during the quarter, providing granular information on transaction details, spread generated, and the applicable income sharing percentage.

9. Format of Proposal

The Pre-qualification proposal should address each of the criteria addressed in this section. It should be clear and concise in response to the information and requirements described in this Pre-qualification document. The format and sections of the Proposal should conform to the structure outlined below. Adherence to this format is necessary to permit the effective evaluation of proposals.

Each section of the proposal should be separated by colored separators for easy access to the relevant section.

Sr.	Contents
01	Letter of Application
02	Table of Contents
03	Executive Summary
04	Corporate Information
05	Company's Experience
06	Relevant previous and current clientele
07	References
08	Any other relevant information
09	Response to Eligibility Criteria (Section 4 of Pre-qualification Documents)
10	Annexures/Attachments as required in the Eligibility Criteria (Section 4 of Pre-qualification Documents)
11	Response to Qualification Criteria (Section 5 of Pre-qualification Documents)
12	Annexures/Attachments as required in the Qualification Criteria (Section 5 of Pre-qualification Documents)
13	Annexures/Attachments as required in the Screening Criteria (Section 6 of Pre-qualification Documents)

10. Letter of Application

To:

Divisional Head (Procurement), Procurement Division
Logistics, Communications and Marketing Group, National Bank of Pakistan, Head Office,
I. I. Chundrigar Road, Karachi.
Tel: 021-99220331 / 021-38902435

Sir,

1. Being duly authorized to represent and act on behalf of(hereinafter "The Applicant") and having reviewed and fully understood all the Pre-qualification information provided, the undersigned hereby apply to be prequalified as a Company for providing a Digital Supply Chain Financing Platform (Down-Stream) to NBP.
2. Attached to this letter are Attested True Copies (of original documents) as required, as per evaluation criteria in sections 4 & 5.
3. NBP and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in connection with this application, and to seek clarification from our bankers and clients regarding any financial and technical aspects.
4. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information to provide such information deemed necessary and requested by yourselves or the authorized representative to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.
5. NBP and its authorized representatives may contact the following persons for further information if needed.

Purpose	Contact Name	Contact Numbers
For General and Managerial Inquiries		
For Technical Inquiries		
For Financial Inquiries		

6. This application is made with the full understanding that:
 - (a) Bids by Prequalified Applicants will be subject to verification of all information submitted for Pre-qualification at the time of bidding.
 - (b) NBP reserves the right to:
 - (i) Amend the scope of this project; in such an event, bids will only be called from prequalified Applicants who meet the revised requirements, and
 - (ii) Cancel the Pre-qualification process and reject applications in accordance with Public Procurement Rules.
7. We confirm that in the event that we bid, that bid, as well as any resulting contract, will be:
 - (a) Signed to legally bind all parties; and
 - (b) The undersigned declares that the statements made and the information provided in the duly completed application are complete, true, and correct in every detail.

Signed

Name & Designation

For and on behalf of (Name of Applicant)
Company Stamp to be affixed

11. Integrity Pact

(TO BE SIGNED BETWEEN NBP AND SUCCESSFUL BIDDER)

Contract Title: _____

Contract No. _____

Contract Value: PKR _____

Dated _____

[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 the Government of Pakistan (GoP) or any administrative subdivision or agency thereof or any other entity owned or controlled by 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, fees, 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 consultation 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, representation, or warranty.

[name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts, 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 rights 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.

Name of Buyer: _____

Name of Seller/Supplier: _____

Signature: _____

Signature: _____

[Seal]

[Seal]

12. Contact Information

In case of any query related to this Pre-qualification document, Applicants may contact the following NBP representative:

To: Divisional Head
Position: Procurement Division, Logistics, Communications
& Marketing Group
Mail Address: muhammad.asad@nbp.com.pk
Phone: 021-99220331 / 021-38902435