Online Request for Proposal (e-RFP)
For
Supply, installation and support of end-to-end Comprehensive Treasury Management Solution

e-NIT Ref. No.JKB/CHQ/T&D/Treasury-Management/2026-1824
Dated : 30-07-2026

Issued By
J&K Bank
Technology & Development,
Fifth Floor, Corporate Headquarters
M.A Road, Srinagar
Phone No :+91- 9797812384
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SCHEDULE OF RFP

RFP Reference No.	JKB/CHQ/T&D/Treasury-Management/2026-1824 Dated : 30-07-2026
Date of Issue of RFP	01-08-2026
RFP Description	Supply, installation and support of end-to-end Comprehensive Treasury Management Solution
Issuer of the RFP-Department	Technology & Development Department
Bank's Communication Details	J&K Bank Technology & Development, 5th Floor, Corporate Headquarters, MA Road, Srinagar Mr. Juneed Malik Phone No :+91-9797812384 email id - juneeed.malik@jkbmail.com
RFP Application Fee (Non - Refundable)	Rs 2,500/-(Rupees Two Thousand Five Hundred Only) to be deposited through Transfer / NEFT to the below detailed A/c: Account Name: Tender Fee/ Cost Account 16-digit Account No: 9931530300000001 IFSC Code: JAKA0HRDCHQ (0 denotes zero) Bank: The J&K Bank Ltd Branch: Corporate Headquarters
Earnest Money Deposit (EMD) (Refundable)	Rs.60,00,000/- (Sixty Lakh Rupees Only) to be deposited through transfer / NEFT to the following A/c with Bank details given as: Account Name: Earnest Money Deposit (EMD) 16-digit Account No: 9931070690000001 IFSC Code: JAKA0HRDCHQ (0 denotes zero) Bank: The J&K Bank Ltd Branch: Corporate Headquarters MA Road Srinagar J&K - 190001
Performance Bank Guarantee	5% of total contract Value
Bid Document Availability including changes/amendments, if any to be issued	Document can be downloaded on banks website and Bank's e-Tendering Service Portal https://jkbank.abcprocure.com/w.e.f August 01, 2026 16.00 Hrs. to August 24, 2026 17.00 Hrs.

Last date for pre-Bids queries & submission Mode	on-line through the prescribed e-Tendering portal https://jkbank.abcprocure.com August 11, 2026 17.00 Hrs.
Pre-bid Queries Response date	All communications regarding points / queries requiring clarifications shall be given online on August 17, 2026
Last date and time for Bid	August 24, 2026 17.00 Hrs.
Submission of online Bids	As prescribed in Bank's online tender portal https://jkbank.abcprocure.com
Date and time of opening of technical bid	To be notified separately
Corrigendum	All the Corrigendum will be uploaded on online tender portal https://jkbank.abcprocure.com only
For e-Tender related Queries	Service Provider: M/s. E-procurement Technologies Limited (Auction Tiger) , B-705, Wall Street- II, Opp. Orient Club, Ellis Bridge, Near Gujarat College, Ahmedabad- 380006, Gujarat Help Desk:

Sr. No	Name
1	Sandhya Vekariya - 6352631968
2	Suraj Gupta - 6352632310
3	Ijlalaehmad Pathan - 6352631902
4	Imran Sodagar - 9328931942

DISCLAIMER

The information contained in this RFP document or any information provided subsequently to bidder(s) whether verbally or in documentary form/email by or on behalf of the J&K Bank is provided to the bidder(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided. This RFP is neither an agreement nor an offer and is only an invitation by the J&K Bank to the interested parties for submission of bids. The purpose of this RFP is to provide the bidder(s) with information to assist the formulation of their proposals. While efforts have been made to include all information and requirements of the Bank with respect to the solution requested, this RFP does not claim to include all the information each bidder may require. Each bidder should conduct its own investigation and analysis and should check the accuracy, reliability and completeness of the information in this RFP and wherever necessary obtain independent advice/clarifications. The Bank makes no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of this RFP. The Bank may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP. The Bank and its officers, employees, contractors, agents, and advisers disclaim all liability from any loss or damage (whether foreseeable or not) suffered by any person acting on or refraining from acting because of any information including forecasts, statements, estimates, or projections contained in this RFP document or conduct ancillary to it whether or not the loss or damage arises in connection with any negligence, omission, default, lack of care or misrepresentation on it.

The Bank also accepts no liability of any nature whether resulting from negligence or otherwise, howsoever caused arising from reliance of any Bidder upon the statements contained in this RFP. The Bidder is expected to examine all instructions, forms, terms and specifications in this RFP. Failure to furnish all information required under this RFP or to submit a Bid not substantially responsive to this RFP in all respects will be at the Bidder's risk and may result in rejection of the Bid.

The issue of this RFP does not imply that the Bank is bound to select a Bidder or to award the contract to the Selected Bidder, as the case may be, for the Project and the Bank reserves the right to reject all or any of the Bids or Bidders without assigning any reason whatsoever before issuance of purchase order and/or its acceptance thereof by the successful Bidder as defined in Award Criteria and Award of Contract in this RFP.

The Bidder shall, by responding to the Bank with a bid/proposal, be deemed to have accepted the terms of this document in totality without any condition whatsoever and accepts the selection and evaluation process mentioned in this RFP document. The Bidder ceases to have any option to object against any of these processes at any stage subsequent to submission of its responses to this RFP. All costs and expenses incurred by interested bidders in any way associated with the development, preparation, and submission of responses, including but not limited to the attendance at meetings, discussions, demonstrations, etc. and providing any additional information required by J&K BANK, will be borne entirely and exclusively by the Bidder.

The bidder shall not assign or outsource the works undertaken by them under this RFP assignment awarded by the Bank without the written consent of the Bank. The Bidder hereby agrees and undertakes to Indemnify the Bank and keep it indemnified against any losses, damages suffered and claims, action/ suits brought against the Bank on account of any act or omission on part of the Bidder, its agent, representative, employees and sub-contractors in relation to the performance or otherwise of the Services to be provided under the RFP. The bidders shall not assign or outsource the works undertaken by them under this RFP awarded by the Bank, without the written consent of the Bank.

List of Abbreviations

ACS	Access Control Server
AD	Active Directory
AI	Artificial Intelligence
AMC	Annual Maintenance Contract
AML	Anti-Money Laundering
API	Application Programming Interface
ALM	Asset Liability Management
AFS	Available For Sale
CRAR	Capital to Risk Weighted Assets Ratio
CRILIC	Central Repository of Information on Large Credits
DC	Data Centre
DR	Disaster Recovery Sites
EEFC	Exchange Earned Foreign Currency
ESTER	EURO Short Term Rate
FCNR	Foreign Currency Non Resident
FCY	Foreign Currency
FVTPL	Fair Valued through Profit and Loss
FX	Foreign Exchange
HFT	Held for Trading
HTM	Held till Maturity
IRAC	Income Recognition and Asset Classification
IndAS	Indian Accounting Standards

IFRS	International Financial Reporting Standards
IGAAP	Indian Generally Accepted Accounting Principles.
ISJ	Investments in Subsidiaries and Joint Ventures
LCR	Liquidity Coverage Ratio
LIBOR	London Interbank Offered Rate
MRS	Merchant Sale
MRP	Merchant Purchase
NOOP	Net Overnight Open Position
NSFR	Net Stable Funding Ratio
PCFC	Post-shipment Credit In Foreign Currency
PSFC	Pre-shipment Credit In Foreign Currency
RBI	Reserve Bank of India
RFC	Resident Foreign Currency
SEBI	Securities and Exchange Board of India
SMS	Short Message Service
SPOT	Day After Tomorrow (t+2)
SOFR	Secured Overnight Financing Rate
SONIA	Sterling Overnight Index Average
TREPS	Tri-Party Repo Purchase System
TOM	Tomorrow
TONIA	Tenge Overnight Index Average
UAT	User Acceptance Testing

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A-INTRODUCTION

1. Brief About Bank:

The Jammu and Kashmir Bank Limited (J&K Bank / Bank) having its Corporate Headquarters at M.A Road Srinagar, J&K -190001 has its presence throughout the country with 1000+ Branches and more than 1500 ATMs/CRMs. The Bank uses Information Technology in all spheres of its functioning by connecting all its branches and offices through its WAN.J&K Bank functions as a universal Bank in Jammu & Kashmir and as a specialized Bank in the rest of the country. Bank functions as a leading bank in the Union Territories of Jammu & Kashmir and Ladakh and is designated by Reserve Bank of India as its exclusive agent for carrying out banking business for the Government of Jammu & Kashmir and Ladakh. J&K bank caters to banking requirements of various customer segments which include Business enterprises, employees of government, semi-government and autonomous bodies, farmers, artisans, public sector organizations and corporate clients. The bank also offers a wide range of retail credit products, including home, personal loans, education loan, agriculture, trade credit and consumer lending, a number of unique financial products tailored to the needs of various customer segments. The Bank, incorporated in 1938, is listed on the NSE and the BSE. Further details of Bank including profile, products and services are available on Bank's website at https://jkb.bank.in

2. Purpose of RFP

J&K Bank, headquartered at Srinagar, with Pan-India Branch Network having its Treasury & Investment dept at BKC, Mumbai and Srinagar locations, intends to onboard a reputed service provider to implement a Treasury Management solution natively bundled with comprehensive Market Risk and Asset Liability Management (ALM) Solutions for all Treasury related products.

The Treasury Management Solution should be scalable, configurable, flexible, comprehensive, integrated, functionally rich and user-friendly to cater to the complete range of functionalities required for Front, Middle, and Back-Office operations. Further, Solution should support seamless integration with other relevant systems & solutions of the Bank. The primary functional mandate of the solution is the complete, end-to-end automation of Bank's Treasury Operations.

The Solution should transform the Bank's Treasury operations by:

- Offering enhanced financial operations,
- Improved user/customer experience,
- broader commercial portfolios
- reducing turnaround-time (TAT),
- automating compliance with internal policies, regulatory requirements, credit checks, and risk management processes.
- Mitigate risk and improving Operational Efficiency.

- leveraging Artificial Intelligence (AI), Distributed Ledger Technology (DLT), advanced analytics, and other emerging technologies, where applicable.

The bidder shall be bound to:

1. The successful bidder will be expected to supply, install, customize, and maintain the software platform along with all integration for all environments including UAT, production and DR. The bidder is also required to provide monthly project steering meetings, requisite training, documentation, and support to Bank during the tenure of the contract.
2. Perform Data Migration from existing system/s to proposed systems, ensure the data quality to minimize the errors.
3. Integrate with existing and required interfaces.
4. Conduct Gap study and Business Parameter Definition (BPD) / Detailed Requirement Gathering.
5. Suggest alternative/better approaches for achieving the similar functionality in new systems to avoid unnecessary customization & retrofitting and porting along with Interface porting.
6. Provide complete Functional and Technical training alongside necessary hand-holding support during the rollout phase and ensure that the Bank's IT teams, core operations staff, and internal training champions achieve full operational independence.
7. Design, Size and maintain the required hardware, middleware, software and solution at DC, DR, Far DR.
8. Provide comprehensive Annual Maintenance Support (AMC) for the period defined in the RFP/SLA.
9. Provide facility management support during the period of the contract.
10. Conduct periodic DC, DR, and Far DR drills of the in-scope applications as and when required and asked by the Bank.
11. The solution should facilitate the day to day functioning of Treasury operations, covering Front, Mid-Office/Market risk, ALM and Back-office functionalities, including deal capturing, what-if analysis, scenario simulations, structuring of products, pricing, valuation, exposure, confirmations, automated settlement, automated reconciliations, accounting, reporting, limit monitoring and alerts etc. with relevant and desired interfacing and updations in other/peripheral Systems of the Bank.
12. To ensure seamless execution, the successful bidder shall deploy a dedicated, project implementation team on-site at the Bank's Corporate Headquarters (CHQ), Srinagar or the Mumbai Office at Bandra Kurla Complex (BKC) for requirement gathering, deployment, UAT and Go-Live.

3. Eligibility Criteria

J&K Bank shall scrutinize the Eligibility bid submitted by the bidder. A thorough examination of supporting documents to meet each eligibility criteria (Annexure D) shall be conducted to determine the Eligible bidders. Bidders not complying with the eligibility criteria are liable to be rejected and shall not be considered for Technical Evaluation.

The bidders meeting the Eligibility Criteria as per Annexure D will be considered for technical evaluation. Any credential/supporting detail mentioned in "Annexure D – Compliance to Eligibility Criteria" and not accompanied by relevant proof documents will not be considered for evaluation. All credential letters should be appropriately bound, labelled and segregated in the respective areas. There is no restriction on the number of credentials a bidder can provide.

4. Scope of Work

The scope of work should be read along with the technical specifications (Annexure E1) to ensure complete compliance to the scope of work. The broader and comprehensive scope of work is as mentioned below:

A. General Functional Requirements:

a) Straight-through processing of all the operations and transactions with no manual intervention.
b) Automated Capturing of transaction details/feeds from the originating platforms.
c) System generated alerts on predefined limits (both internal and regulatory limits) in respect of transactions, dealers, entities or any combination of the parameters.
d) Compliance with regulatory prescriptions of RBI, SEBI, stock exchanges norms etc. on an on-going basis
e) Solution should be capable of handling processes/reporting requirements as per IndAS, IFRS and IGAAP and cover the entire life cycle of the instruments.
f) Solution should perform calculations of interest and/or principal or any other incidental payments as per the industry accepted conventions / practices relating to each instrument of investment / borrowing etc.
g) Solution should have reporting engine capable of generating and exporting all operational, financial, regulatory, and analytical reports natively. Users must be able to generate, extract, download, and schedule reports on demand in all formats including, but not limited to PDF, Excel format and .CSV formats
h) The proposed Treasury Management Solution must mandate a strict, Maker Checker framework across its entire architecture, with an architecture that ensures complete segregation of duties. Also, for high-value or high-risk treasury movements, the solution should have an feature to apply, configurable multi-level approval workflow. This workflow evaluates transaction attributes in real time to route the approval queue through additional layers of authorization.
i) Solution provides comprehensive, tamper-proof logging engine that creates a complete audit footprint of every action taken within the Solution/platform.
j) The Solution must feature a comprehensive notification engine capable of sending real-time notifications natively through the front-end user interface, and externally via SMS and Email.

k) Solution should have real-time analytical dashboards, executive scorecards, and an enterprise reporting engine designed to deliver decision support, portfolio visibility, and predictive insights for management and trading desks.

B. Domestic Treasury Requirements:

The solution should handle and support complete life cycle for all operations pertaining to all the investment instruments permitted for banks by the regulators which presently includes and not limited to: TREPS/CALL Borrowing / Lending, Card rates, Automation of fund flow, SDF/MSF, Mutual Funds, Equity, Corporate Bonds, Zero–coupon Bonds, Bonds with staggered redemption and bond with two coupons, Certificate of Deposits, Commercial Papers, Fixed Deposits, Bills rediscounting, GOI Securities, Treasury Bills, Repo, Reverse Repo, STRIPS, debentures including optionally convertible debentures, Constituents (CSGL), Alternative Investment Fund (AIF), Joint Ventures and Subsidiaries, Refinance, CD issuance etc. with classification in terms of portfolio as per regulatory guidelines. (viz: AFS, HFT, FVTPL, HTM & ISJ) and investment classification as per regulatory/IRAC norms. The solution should be capable of handling the Product wise and account wise Auto Reconciliation along with auto valuation of portfolio as per regulatory norms. System should ensure that for every transaction initiated within the solution, accounting and relevant impacts are automatically force matched across all dependent peripheral platforms including but not limited to CBS.

C. Forex Treasury Requirements:

The solution should handle and support complete life cycle for operations pertaining to all the Forex products which includes, but not limited to: CASH, TOM, SPOT, Forwards (Booking, Cancellation, Early Utilization and Rollover of Contracts), Bill purchasing/Discounting, FCY Lending /Borrowing. FX Swap, MRP, MRS, EEFC, RFC, FCNR etc.

Also, operations pertaining to borrowings in foreign currency including SDR, floating rate (SOFR/SONIA/LIBOR /ESTER/TONIA linked and other benchmarks) loans, PCFC/PSFC, Loan against FCNR etc. The solution to handle multiple and all currency pairs (including INR and Cross-Currency Pairs), multipurpose Forex Currency Cards, rates generation facility etc. The solution should be capable of handling Product and Account wise Auto reconciliation. System should ensure that for every transaction initiated within the solution, accounting and relevant impacts are automatically force matched across all dependent peripheral platforms including but not limited to CBS.

D. Derivatives

The solution should handle and support complete life cycle for operations pertaining to deals undertaken in various derivate products like but not limited to: Interest Rate Derivatives, Long Term Foreign Exchange Forward Contracts, Exchange Traded Currency Derivatives i.e.. Currency Futures and Options, Interest rate Swaps (IRS), Cross Currency Swaps(CCS), FRAs, Overnight Index Swaps(OIS). FX Outright forwards, Non-deliverable Forward (NDF), Average forwards (AVG), Flexi Forwards, FX futures etc. System should ensure that for every transaction initiated within the solution, accounting and relevant impacts are automatically force matched across all dependent peripheral platforms including but not limited to CBS.

E. MID Office/Market Risk Management and ALM System.

The solution should have a complete Market Risk Management and ALM module's, which shall aid MID Office and IRMD with: Centralized cash and liquidity management, Risk Identification and Risk Mitigation Measures, Different Mitigation Strategies, Risk analytics and scenario modeling, Compliance monitoring and reporting. Hedging and investment management. Management and

Monitoring of Cashflows.

The solution should provide a robust Limit Maintenance and Management module with overall limit maintenance, Real Time Limit Tracking, Prudential Limits such as IGL, IDL, AGL, VaR, Daylight/Overnight limit, Counterparty wise exposure, Dealer limits, Consolidated Open Position (Daily/Month end) covering FX, Borrowing & Derivatives. Alert Management and Exception reporting for Breach of limits.

VaR Model / Expected shortfall, CRAR, PV01, NOOP, AGL, Stress Testing, Back Testing, Duration, Modified Duration, Reciprocal cross holding, Intraday Liquidity, Capital charge, illiquidity premium, interest rate risk, ECL calculation, Amortized Cost & Effective Interest rate (EIR) calculations and all other related risk metrics as per Regulatory norms.

F. MIS & Reporting Module.

The system should be capable to generate user defined reports using parameters related to deal origination, servicing, classification, valuation and all other parameters at every module, section and stage. System should keep and generate reports of User actions, audit trails, system logs. System should facilitate a separate Report Designing Tool, which shall aid the user to generate any desired report with configurable parameters and Items.

System should be able to generate all the regulatory reports including and not limited to: Complete RBS Tranche, LFAR, Turnover Reports, Positions and Balances, Cashflows, Assets and Liabilities, NSFR/LCR, Liquidity and Exposure Reports, Monthly & Quarterly DSB Returns, CRR & SLR Reports Generation. All types of VAR/ Expected Shortfall, NOOP, PV01, TPM Generation , CRILIC Report Generation etc.

G. Interfaces/Integrations, Open Banking and API's.

The system/solution should have the ability to integrate with all the Platforms, Aggregators, Data Providers, Core Banking Solution, Payment Systems and other system/s desired by the Bank. The solution architecture must support rapid deployment of Application Programming Interfaces (APIs) and standard protocols to interface with, but not limited to: CBS (Finacle), XMM, SWIFT, HRMS (Oracle Peoplesoft), ALM Solution, MIS/ADF and BI, All CCIL Applications (NDSCALL, TREPS, CROMS, FX Clear, FX Retail, NDSOM, NSERFQ, ASTROID etc.), Ekuber, SFMS, Refinitiv, Bloomberg, Cogencis, BARX, Deutsche, NSDL, FEDAI, FEMMDA, Trade Finance solutions, FX-Retail, and the Bank's customer-facing Digital Channels (Mobile Banking App. and Corporate/Retail Internet Banking).etc. The System should also support Open Banking and should have an Integrated Workflow &Document Management Solution, Proper Workflow Management, Document management portal with OCR/ ICR for Deal Record and Deal digitization.

Also, for all data-in-transit and payload exchanges between API's the solution must implement a Hybrid Encryption Framework.

H. OEM Scope *

Bidder should work with OEM to deliver following scope of work –

- Review design document.
- Review solution Batches/Reports performance and arrange requisite Solutions/Patches.
- Review of solution deployed Architecture.
- Guidance on solution compatibility with cloud environment.

*This section is only applicable when Bidder is non-OEM

I. Business Continuity Requirements

- Data replication between DC & DR is imperative and the replication design must be as agreed by the bidder with the bank.
- Periodic DR drills must be conducted as per bank's policy in order to test the readiness and effectiveness of the business continuity plan. In Addition, the bank may require DR cut-over. The bidder must perform the same as and when stipulated by the bank to meet the BCP/ regulatory requirements.
- The entire environment at disaster recovery site shall be maintained as a full working copy of primary data center.
- The Bidder must ensure that the RTO & RPO requirements, as per Bank's BCP, are adhered. Thus, the Bidder must ensure the replication across the solution is maintained as per the requirements of the RFP.

J. Infrastructure Sizing

The proposed solution should be hosted on the Bank's on-premise infrastructure at bank's Data Centre. The Selected vendor must design the solution with high availability & secure infrastructure in Data Centre as per Industry accepted security standards and best practices. Selected bidder shall provide sizing for required hardware, middleware and software for app, web, DB layers and storage for both DC and DR sites. The sizing should be provided to handle the load efficiently without any degradation in the services throughout the contract period of 5 years.

For the purpose of Infrastructure sizing, Bidder shall submit an architecture document detailing the below solution environments, internal connections and their components (Bill of Materials), as part of technical bid. The Solution architecture should be built considering the information set out in this RFP, solution specific requirements and following solution environments:

1. UAT/Dev/Testing Environment
2. Production (High Availability) - Primary Data Centre Environment
3. Disaster Recovery Environment

Successful Bidder shall provide the infrastructure requirement for On-premises deployment of the solution for a period of 5 years.

The infrastructure details should include the following:

All hardware components required necessary for enterprise level implementation of the solution such as Servers/Load Balancers/Storage/Network Components etc., and any other peripheral devices. Bank shall provide the required Hardware Components.

All software components of the solution such as Application/Web App/Middleware/Backup/Archival and Licenses.

Software components like DB/Middleware to be factored under the proposed commercial rates

Note: - In case the solution uses database and Middleware as Oracle, same shall be provided by Bank itself, for databases other than Oracle the cost has to be factored in the commercials & genuineness certificate has to be provided to the Bank.

K. Resource Deployment

The bidder is expected to deploy skilled and experienced team, having sufficient knowledge of Treasury products, operations and processes, for effective & successful implementation of the project. The said team is required to be placed on-site at Bank's Corporate Headquarters (CHQ), Srinagar, or at Banks Treasury Operations Office at Bandra Kurla Complex (BKC), for requirement gathering, deployment, UAT and Go-Live. The selected bidder shall also facilitate an onsite dedicated domain expert Project Manager to oversee the implementation process; the assigned Project Manager shall constantly coordinate with the Bank teams for effective and timely implementation of the project as per the set timelines.

L. On Site Resource

Post-go-Live of the application, the vendor shall deploy two onsite support resources i.e. One L1, One L2 resources with sufficient experience in handling Treasury Software/solution, to ensure smooth daily operations, timely resolution of issues and effective knowledge transfer to the Bank officials for a period of two years extendable up to another 3 years (year on year basis). The resources has to mandatorily be available onsite at bank's (Srinagar/Mumbai) location/s during the standard daily business hours(market hours including LAF) with the flexibility to support extended hours and weekend for resolution of critical issues. The quality of the service provider will be accessed periodically by the bank to ensure compliance with the agreed service levels.
The bidder shall guarantee Resource Attendance of 95% (Including leaves and resource replacement periods) and ensure the Service Level Agreement is met during the Contract Period. Please refer to the Annexure J- Service Level Agreement.

M. Escrow Arrangement

Bidder has to agree to keep source code of proposed solution with approved / recognized escrow agency under escrow arrangements mutually acceptable to the bank and Bidder for entire project period. Cost of the escrow arrangement to be borne by Bank. Contract will be signed on mutually acceptable terms with bank, successful bidder and escrow agent

5. Location of Work

The successful bidder shall be required to work in close co-ordination with Banks teams and may be required to work at locations prescribed by Bank such as Banks DC/DR and other offices as per requirement. All expenses (travelling/lodging, etc.) shall be borne by the successful bidder.

1. **CHQ, Srinagar**
   Jammu & Kashmir Bank Ltd.
   Corporate Headquarters,
   MA Road, Srinagar-190001

2. **Data Center Noida**
   Jammu & Kashmir Bank Ltd.
   Green Fort Data Center, Plot B7, Sector 132, Noida U.P.-201301

3. **DR Mumbai**
   CtrlS Data Center,
   Mahape, Navi Mumbai, Maharashtra, 400701

4. **Treasry Operations Mumbai**
   Bandra Kulra Complex-Mumbai

6. Invitation for Tender Offer

J&K Bank invites tenders for Technical bid (online) and Commercial bid (online) from suitable bidders. In this RFP, the term “bidder” refers to the bidder delivering products / services mentioned in this RFP.

The prospective bidders are advised to note the following: The interested bidders are required to submit the Non-refundable RFP Application Fees of ₹2,500 by way of NEFT, details of which are mentioned at clause of Earnest Money Deposit in Part C.

1. Bidders are required to submit Earnest Money Deposit (EMD) for ₹60,00,000/- (Rupees Sixty lakh Only). The Bank may accept Bank guarantee in lieu of EMD for an equivalent amount valid for 180 days from the last date of bid submission and issued by any scheduled commercial Bank acceptable to the Bank. Offers made without EMD will be rejected.
2. Technical Specifications, Price Bid, Terms and Conditions and various formats for submitting the tender offer are described in the tender document and Annexures.

7. Project Delivery Milestones

The solution as per the required scope needs to be rolled out as per the delivery timelines mentioned. The phases of the Schedule are as follows:

PROJECT PHASES:

1. Project Plan
2. Delivery of Solution
3. User Acceptance Testing
4. Operationalization of Solution
5. Solution Review

1. PROJECT PLAN:

Successful Bidder shall submit the project plan for complete implementation of the solution as per the Scope of Work detailed in this RFP along with Solution Architecture, DFD and other required documents. This plan should be submitted for review and bank's acceptance within ten weeks after the issuance of PO to the successful bidder.

Bank shall issue a Project Plan signoff accepting the same. It shall be the responsibility of the successful bidder to submit and get the plan approved by the Bank authorities within the timelines mentioned above without any delay. Bank shall have the discretion to cancel the purchase order in lieu of delay in submission of the project plan.

2. PROJECT MILESTONES & DELIVERY

The solution must be implemented as per project scope within a period defined in this RFP. Rollout of the solution has to be as per the below timelines:

The schedule of delivery and activities towards implementation of the project is given below:

S.No	Milestone	Timeline
1	Issuance of PO	Week 0
2	Signing of Agreement	Within 3 Weeks from the Issuance of PO
3	Gap Analysis, Requirement Gathering, and BRD/SRS Sign-off	Within 8 Weeks from the Issuance of PO
4	Submission of Project Plan Documentation	Within 10 Weeks from the Issuance of PO

5	Supply, Delivery, Integrations, Installation & Implementation of Solution (UAT Delivery) as per SOW of RFP including migration of data. (Project milestone progress, as outlined in the submitted Project Plan, will be tracked and monitored by the Bank throughout the entire implementation lifecycle. To support this, fortnightly progress reports will be submitted to the Bank)	Within 30 Weeks from the Issuance of PO
6	UAT sign-off & Production Data Migration and data cleansing, if required	40 weeks from the Issuance of PO
7	Successful Go-Live of Solution	Within 3 Weeks from the UAT sign off by Bank
8	Deployment of solution on DR	Within 10 Weeks from go live at DC.

- Please note that maximum expected time frame of the project to Go-live is 43 weeks from the date of issuing purchase order.

Successful bidder is required to provide detailed project implementation status on weekly basis and project steering meetings on monthly basis.

The bidder must strictly adhere to the project timeline schedule, as specified in the purchase contract executed between the Parties for performance of the obligations, arising out of the purchase contract and any delay in completion of the obligations by the bidder will enable Bank to resort to any or all of the following provided that the bidder is first given a 30 days" written cure period to remedy the breach/delay:

a. Claiming Liquidated Damages
b. Termination of the purchase agreement fully or partly and claim liquidated damages.
c. Forfeiting of Earnest Money Deposit / Invoking EMD Bank Guarantee/Performance Guarantee.

However, Bank will have the absolute right to charge penalty and/or liquidated damages as per Tender /contract without giving any cure period, at its sole discretion besides taking any other appropriate action.

EXTENSION OF DELIVERY SCHEDULE:

If, at any time during performance of the Contract, the Bidder should encounter conditions impeding timely delivery, the Bidder shall promptly notify the Bank in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Bidder's notice, the Bank shall evaluate the situation and may at its discretion extend the Bidder's time for performance against suitable extension of the performance guarantee for delivery.

NON-DELIVERY:

Failure of the successful bidder to comply with the above delivery schedule shall constitute sufficient grounds for the annulment of the award of contract and invocation of bank guarantee (delivery) besides taking appropriate action against the successful bidder including blacklisting such bidder from participating in future tenders.

3. USER ACCEPTANCE TESTING:

Successful bidder shall assist Bank in the User Acceptance Testing of the solution for the functionalities stated in this RFP document. Bank shall issue a UAT signoff on successful completion of the UAT for all channels. If the UAT fails or there is undue delay of the completion of the UAT due to reasons attributable to the successful bidder, Bank may at its own discretion cancel the purchase order and invoke the Bank guarantee for implementation.

4. OPERATIONALIZATION OF SOLUTION:

Bank shall issue Go Live Signoff on successful operationalization of the solution. If there is delay in the operationalization of the solution, Bank reserves the right to cancel the purchase order and invoke the Bank guarantee submitted for implementation.

5. **REVIEW:**

The solution shall remain under review for a period of 3 months from the date of issuance of Go Live Certificate. The Successful bidder shall be readily available during the review phase for troubleshooting and other support. During the review phase, Bank may request changes to the application as per its requirement and no extra costs shall accrue to the bank for the effort involved in the same. Bank shall issue final acceptance signoff at the end of the review phase.

B-EVALUATION PROCESS

The endeavor of the evaluation process is to find the best fit Solutions as per the Bank's requirement at the best possible price. The evaluation shall be done by the Bank's internal committees formed for this purpose. Through this RFP, Bank aims to select bidder(s) /Service provider(s) who would undertake **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution.** The bidder shall be entrusted with end-to-end responsibility for the execution of the project under the scope of this RFP. The bidder is expected to commit for the delivery of services with performance levels set out in this RFP.
Responses from Bidders will be evaluated in two stages, sequentially, as below:

Stage A. Evaluation of Eligibility

Stage B: Technical Evaluation

Stage C. Commercial Evaluation

The three-stage evaluation shall be done sequentially on knock-out basis. This implies that those Bidders qualifying in Stage A will only be considered for Stage B and those bidders qualifying Stage B will be considered for Stage C. Please note that the criteria mentioned in this section are only indicative and Bank, at its discretion, may alter these criteria without assigning any reasons. Bank also reserves the right to reject any / all proposal(s) without providing any specific reasons. All deliberations and evaluations performed by Bank will be strictly confidential and will be maintained as property of Bank exclusively and will not be available for discussion to any Bidder of this RFP.

Stage A-Evaluation of Eligibility

The Bidders of this RFP will present their responses as detailed in this document. The Response includes details / evidence in respect of the Bidder for meeting the eligibility criteria, leading the Bank to evaluate the Bidder on eligibility criteria. The Bidder will meet the eligibility criteria mentioned in Annexure D in this document individually. Bank will evaluate the Bidders on each criterion severally and satisfy itself beyond doubt on the Bidders ability /position to meet the criteria. Those Bidders who qualify on all the criteria will only be considered as "Qualified under Stage A" of evaluation and will be considered for evaluation under Stage B. Those Bidders who do not qualify at this Stage A will not be considered for any further processing. The EMD money in respect of such Bidders will be returned on completion of the Stage A evaluation. Bank, therefore, requests that only those Bidders who are sure of meeting all the eligibility criteria only need to respond to this RFP process.

Stage B-Evaluation of Technical Bid

All technical bids of bidders who have Qualified Stage A will be evaluated in this stage and a technical score will be arrived at. The bidder should meet the technical requirements as mentioned in the Annexure E. The Bank will scrutinize the offers to determine their completeness (including signatures from the relevant personnel), errors, omissions in the technical & commercial offers of respective bidders. The Bank plans to, at its sole discretion, waive any minor non-conformity or any minor deficiency in an offer. The Bank reserves the right for such waivers and the Bank's decision in the matter will be final.

The Bank reserves the right to evaluate the bids on technical and functional parameters, including visit to inspect client site/s of the bidder and witness demos of the system and verify functionalities, response times, etc. The Bank will do the evaluation on the responses provided by the bidder. The conclusion of technical evaluation made by the bank is final and indisputable

Bidders scoring at-least overall score of 70% marks or more, as per Technical Bid Format in Annexure E, will be declared technically qualified.

Bank may seek clarifications from the any or each bidder as a part of technical evaluation. All clarifications received within stipulated time shall be considered for evaluation. In case a clarification is not received within the stipulated time, the respective technical parameter would be treated as non-compliant and decision to qualify the bidder shall be accordingly taken by the Bank. Those Bidders who meet the threshold score of **70%** or more will be considered as "Qualified under Stage B" and will be considered for evaluation under Stage C. Those who do not meet the above threshold will not be considered for further evaluation and their EMD will be returned. However, Bank reserves the right to relax the criteria.

The bidders will submit the Technical Bid in the format as per Annexure E. A copy of board resolution or power of attorney showing that the signatory has been duly authorized to sign the tender document.

Stage C-Evaluation of Commercial Bid

Cost Evaluation under Combined Quality cum Cost Based System (CQCCBS)

i. Under the CQCCBS, technical proposals will be allotted a weightage of 70%, while financial bids, will be allotted a weightage of 30%.

ii. The proposal with the lowest cost will be given a financial score of 100, and other proposals will be given financial scores inversely proportional to their prices.

iii. The total score, encompassing both technical and financial aspects, shall be obtained by weighing the quality and cost scores and summing them up.

Highest Point's Basis:

On the basis of the combined weighted score for quality and cost, the bidder shall be ranked in terms of the total score obtained. The proposal obtaining the highest total combined score in evaluation of quality and cost will be ranked as H-1 followed by the proposals securing lesser marks as H-2, H-3 etc. The proposal securing the highest combined marks and ranked H-1 will be invited for negotiations, if required and shall be recommended for award of contract.

Technical Evaluation:

The technical score will be calculated as follows

$$\textbf{Weighted Technical Score} = \frac{\textbf{Bidder's Technical Score}}{\textbf{Highest Technical Score}}$$

The technical score will carry a weightage of 70%.

Commercial Evaluation:

The commercial score will be calculated as follows:

$$\textbf{Commercial Score} = \frac{\textbf{Lowest Commercial Price}}{\textbf{Bidder's Commercial Price}} \times 100$$

The commercial score will carry a weightage of 30%.

Final Evaluation and Selection:

Final Combined Score Formula:

Final Score = [Weighted Technical Score × 70] + [Commercial Score × 0.30]

Bidders will be ranked as H-1, H-2, etc., based on the final combined score.

Example Procedure

As an example, the following procedure shall be followed. In a particular case of selection of bidder, it was decided to have minimum qualifying marks for technical qualifications as 75 and the weightage of the technical bids and financial bids was kept as 70:30. In response to the RFP, 3 proposals, A, B & C were received. The technical evaluation committee awarded them 80, 75 and 90 scores in the technical evaluation respectively. The minimum qualifying marks were 75. All the 3 proposals were, therefore, found technically suitable and their financial proposals were opened after notifying the date and time of bid opening to the successful participants.

The price evaluation committee examined the financial proposals and evaluated the quoted prices as under:

Proposal	Technical Score	Quoted Cost
A	80	Rs 100
B	75	Rs 110
C	90	Rs 120

The evaluation committee examined the proposals and evaluated shall take place as under:

Proposal	Technical Score	Highest Technical Score	Weighted Technical Score	Commercials Quoted	Lowest Commercial Bid	Commercial Score	Final Combined Score	Final Rank

A	80	90	0.88	Rs.100.	Rs.100	100	(0.88 x 70] + (100 x 0.30) = 91.6	H2
B	75		0.83	Rs.110		90.90	(0.83 x 70) + (90.90 x 0.30) = 85.37	H3
C	90		1.00	Rs.120.		83.33	(1 x 70) + (83.33 x 0.30) = 94.99	H1

Proposal C at the evaluated cost of Rs.120 was, therefore, declared as winner H1 and recommended for negotiations/approval, to the competent authority.

C-RFP SUBMISSION

1. e-Tendering Process

This RFP will follow e-Tendering Process (e-Bids) as under which will be conducted by Bank's authorized e-Tendering Vendor M/s. e-Procurement Technologies Ltd. through the website https://jkbank.abcprocure.com

a) Publishing of RFP
b) Vendor Registration
c) Pre Bid Queries
d) Online Response of Pre-Bid Queries
e) Corrigendum/Amendment (if required)
f) Bid Submission
g) Bids Opening
h) Pre-Qualification
i) Bids Evaluation
j) Commercial Evaluation
k) Contract Award

Representative of bidder may contact the Help Desk of e-Tendering agency M/s. e-Procurement Technologies Ltd for clarifications on e-Tendering process:

2. Service Provider:

M/s. E-procurement Technologies Limited
(Auction Tiger), B-705, Wall Street- II, Opp. Orient Club, Ellis
Bridge, Near Gujarat College,
Ahmedabad- 380006, Gujarat

Help Desk:

S.No	Name	Contact No
1	Sandhya Vekariya	6352631968
2	Suraj Gupta	6352632310

3	Ijlalaehmad Pathan	6352631902
4	Imran Sodagar	9328931942

No consideration will be given to e-Bids received after the date and time stipulated in this RFP and no extension of time will normally be permitted for submission of e-Bids.

Bank reserves the right to accept in part or in full or extend or reject the bids received from the bidders participating in the RFP.

Bidders will have to abide by e-Business Rules framed by the Bank in consultation with M/s. e-Procurement Technologies Ltd.

3. RFP Fees

The non- refundable RFP application fee of Rs 2,500/- is required to be paid by the prospective bidders through NEFT as per the following details:

Bank Details for RFP Fees	
Account Number	9931530300000001
Account Name	Tender Fee / Cost Account
Bank Name	The J&K Bank Ltd
Branch Name	Corporate Headquarters MA Road Srinagar J&K - 190001
IFSC Code	JAKA0HRDCHQ
Amount	INR 2,500/=

The Bidder shall solely bear all expenses whatsoever associated with or incidental to the preparation and submission of its Bid and the Bank shall in no case be held responsible or liable for such expenses, regardless of the conduct or outcome of the bidding process including but not limited to cancellation / abandonment / annulment of the bidding process.

4. Earnest Money Deposit

Prospective bidders are required to submit Earnest Money Deposit (EMD) of INR 60,00,000 (Rupees Sixty lakh Only). The Bank may accept Bank guarantee in lieu of EMD for an equivalent amount valid for 180 days from the last date of bid submission and issued by any scheduled commercial Bank in India (other than Jammu & Kashmir Bank). The Bank will not pay any interest on the EMD. The bidder can also submit the EMD through NEFT as per the following details:

Bank Details for Earnest Money Deposit	
Account Number	9931070690000001

Account Name	Earnest Money Deposit (EMD)
Bank Name	The J&K Bank Ltd
Branch Name	Corporate Headquarters MA Road Srinagar J&K - 190001
IFSC Code	JAKA0HRDCHQ
Amount	INR 60,00,000/=

If EMD is directly credited to designated account, proof of remittance of EMD in the designated account should be enclosed with the technical bid

In case of a Bank Guarantee from a Foreign Bank, prior permission of the Bank is essential. The format of Bank Guarantee is enclosed in Annexure G.

EMD submitted through Bank Guarantee/Demand Draft should be physically send in an envelope mentioning the RFP Subject, RFP No. and date to the following address:

Address:	Technology & Development Department, J&K Bank Ltd. 5th Floor Corporate Headquarters, MA Road Srinagar, J&K Pin- 190001

Note: EMD is exempted for all Start-ups as recognized by DPIIT/DIPP. In case of such exemption, relevant documents/proof is to be submitted with Bid.

The EMD made by the bidder will be forfeited if:

a. The bidder withdraws his tender before processing the same.

b. The bidder withdraws his tender after processing but before acceptance of the PO issued by Bank.

c. The selected bidder withdraws his tender before furnishing an unconditional and irrevocable Performance Bank Guarantee.

d. The bidder violates any of the provisions of the terms and conditions of this tender specification.

The EMD will be refunded to:

a. The Successful Bidder, only after furnishing an unconditional and irrevocable Performance Bank Guarantee (other than Jammu & Kashmir Bank) from any scheduled commercial bank in India for 5% of the total project cost for 5 years and valid for 5 years+6 months including claim period of 6 months, validity starting from its date of issuance. The PBG shall be submitted within 30 days of the PO issued from the Bank.

b. The Unsuccessful Bidder, only after acceptance of the PO by the selected bidder.

5. Performance Bank Guarantee (PBG)

The successful bidder will furnish unconditional performance bank guarantees (other than Jammu & Kashmir Bank) from any scheduled commercial bank in India, for 5% of the total Purchase order cost for a period 5 years + 6 months. The format of the PBG is given as per Annexure H. The PBG shall be submitted within 30 days from the date of issuance of Purchase order by the Bank. The PBG shall be denominated in Indian Rupees. All charges whatsoever such as premium, commission etc. with respect to the PBG shall be borne by the Successful Bidder. The PBG so applicable must be duly accompanied by a forwarding letter issued by the issuing Bank on the printed letterhead of the issuing Bank. Such forwarding letter shall state that the PBG has been signed by the lawfully constituted authority legally competent to sign and execute such legal instruments. The executor (BG issuing Bank Authorities) is required to mention the Power of Attorney number and date of execution in his / her favour with authorization to sign the documents. Each page of the PBG must bear the signature and seal of the BG issuing Bank and PBG number. In the event of delays by Successful Bidder in implementation of project beyond the schedules given in the RFP, the Bank may invoke the PBG. Notwithstanding and without prejudice to any rights whatsoever of the Bank under the contract in the matter, the proceeds of the PBG shall be payable to Bank as compensation by the Successful Bidder for its failure to complete its obligations under the contract. The Bank shall also be entitled to make recoveries from the Successful Bidder's bills, Performance Bank Guarantee, or any other amount due to him, the equivalent value of any payment made to him by the Bank due to inadvertence, error, collusion, misconstruction or misstatement. The PBG may be discharged / returned by Bank upon being satisfied that there has been due performance of the obligations of the Successful Bidder under the contract. However, no interest shall be payable on the PBG.

6. Tender Process

i. Three-stage bidding process will be followed. The response to the tender should be submitted in three parts: Eligibility, Technical and Commercial Bid through online e-tendering portal with a tender document fee and EMD details mentioned above.
ii. The Bidder shall submit their offers strictly in accordance with the terms and conditions of the RFP. Any Bid, which stipulates conditions contrary to the terms and conditions given in the RFP, is liable for rejection. Any decision of Bank in this regard shall be final, conclusive and binding on the Vendor.
iii. Bank reserves the right to call the successful bidder for a price negotiation.

iv. This contract shall initially be awarded for a period of five (5) years from the date of Go Live. Prices quoted will remain same during the contract period of 5 years. Six (6) months prior to the contract's expiration, the Vendor shall engage with the Bank to confirm whether the Bank intends to extend the contract. If the Bank opts for an extension, the Vendor shall mandatorily extend the contract for up to two (2) additional years, ensuring uninterrupted service delivery. The terms and conditions for service delivery shall remain unchanged; however, the Bank reserves the right to negotiate and finalize the commercial rates for the extended period through mutual discussion. The Vendor shall not unilaterally withdraw from or refuse the extension if exercised by the Bank. In the event the Bank decides not to extend the contract, the Vendor shall provide all necessary support, documentation, and assistance to ensure a smooth and structured transition.

v. Successful Bidder (H1) shall submit to the Bank the price breakup for the bid amount in the format as provided by the Bank. If the price breakup is not submitted to the Bank, the Bank reserve the right to reject the H1 Bidder's Bid and make procurement from the H2 or H3 Bidder.

vi. Bank will enter in to contract with the H1 bidder(s) (in normal cases). Rates fixed at the time of contract will be non-negotiable for the whole contract/SLA period and no revision will be permitted subject to Bank review. This includes changes in taxes or similar government decisions.

vii. If the service provided by the vendor is found to be unsatisfactory or if at any time it is found that the information provided by the vendor is false, the Bank reserves the right to revoke the awarded contract without giving any notice to the vendor. Bank's decision in this regard will be final.

viii. If any of the shortlisted Vendors are unable to fulfil the orders within the stipulated period, Bank will have the right to allot those unfulfilled orders to other participating vendors, after giving 15-days" notice to the defaulting Vendor. Also, during the period of the contract due to unsatisfactory service, Bank will have the right to cancel the contract and award the contract to other participating vendors.

7. Bidding Process

i. The bids in response to this RFP must be submitted in three parts:

a. Confirmation of Eligibility Criteria
b. Technical Bid
c. Commercial Bid (CB).

i. The mode of submission of Confirmation of Eligibility, Technical Criteria and Commercial Bid (CB) shall be online.

ii. The Bidders who qualify the Eligibility Criteria & suffice the minimum Technical Evaluation criteria will be qualified for techno-commercial bid evaluation.

iii. The successful Bidder will be determined based on the CQCCBS calculation as described in the relevant section of the RFP

iv. Bidders are permitted to submit only one Bid and relevant Technical & Commercial Bid. More than one Bid should not be submitted.

v. Receipt of the bids shall be closed as mentioned in the bid schedule. Bid received after the scheduled closing time will not be accepted by the Bank under any circumstances.

vi. Earnest Money Deposit must accompany all tender offers as specified in this tender document. EMD amount / Bank Guarantee in lieu of the same should accompany the Bid. Bidders, who have not paid Cost of RFP and Security Deposit (EMD amount) will not be permitted to participate in the bid and bid shall be summarily rejected.

vii. All Schedules, Formats, Forms and Annexures should be stamped and signed by an authorized official of the bidder'

viii. The bidder is expected to examine all instructions, forms, terms and conditions and technical specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidder's risk and may result in rejection of the bid.

ix. No rows or columns of the tender should be left blank. Offers with insufficient information are liable to rejection.

x. The bid should contain no interlineations, erasures or over-writings except as necessary to correct errors made by the bidder. In such cases, the person/s signing the bid should initial such corrections.

xi. Bank reserves the right to re-issue / re-commence the entire bid process in case of any anomaly, irregularity or discrepancy in regard thereof. Any decision of the Bank in this regard shall be final, conclusive and binding on the Bidder.

xii. Modification to the Bid Document, if any, will be made available as an addendum/corrigendum on the Bank's website and Online tendering portal.

xiii. All notices regarding corrigenda, addenda, amendments, time-extension, clarification, response to bidders' queries etc., if any to this RFP, will not be published through any advertisement in newspapers or any other mass media. Prospective bidders shall regularly visit Bank's website or online tendering portal to get themselves updated on changes / development in relation to this RFP.

xiv. Prices quoted should be exclusive of GST.

xv. Applicable taxes would be deducted at source, if any, as per prevailing rates.

xvi. The price ("Bid Price") quoted by the Bidder cannot be altered or changed due to escalation on account of any variation in taxes, levies, and cost of material.

xvii. During the period of evaluation, Bidders may be asked to provide more details and explanations about information they have provided in the proposals. Bidders should respond to such requests within the time frame indicated in the letter/e-mail seeking the explanation.

xviii. The Bank's decision in respect to evaluation methodology and short-listing Bidders will be final and no claims whatsoever in this respect will be entertained.

xix. The Bidder shall bear all the costs associated with the preparation and submission of its bid and the bank, will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

8. Deadline for Submission of Bids:

i. Bids must be received at the portal and by the date and time mentioned in the "Schedule of Events".

ii. In case the Bank extends the scheduled date of submission of Bid document, the Bids shall be submitted at the portal by the time and date rescheduled. All rights and obligations of the Bank and Bidders will remain the same.

iii. Any Bid received after the deadline for submission of Bids prescribed at the portal, will be rejected.

9. Bid Validity Period

i. Bid shall remain valid for duration of 06 calendar months from Bid submission date.

ii. Price quoted by the Bidder shall remain valid for duration of 06 calendar months from the date of conclusion of RFP.

iii. Once Purchase Order or Letter of Intent is issued by the Bank, the said price will remain fixed for the entire Contract period and shall not be subjected to variation on any account, including exchange rate fluctuations and custom duty. A Bid submitted with an adjustable price quotation will be treated as non-responsive and will be rejected.

10. Bid Integrity

Willful misrepresentation of any fact within the Bid will lead to the cancellation of the contract without prejudice to other actions that the Bank may take. All the submissions, including any accompanying documents, will become property of the Bank. The Bidders shall be deemed to license, and grant all rights to the Bank, to reproduce the whole or any portion of their Bid document for the purpose of evaluation and to disclose the contents of submission for regulatory and legal requirements.

11. Cost of Bid Document

The participating Bidders shall bear all the costs associated with or relating to the preparation and submission of their Bids including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstration or presentations which may be required by the Bank or any other costs incurred in connection with or relating to their Bid. The Bank shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder regardless of the conduct or outcome of the bidding process.

12. Contents of Bid Document

i. The Bidder must thoroughly study/analyse and properly understand the contents of this RFP, its meaning and impact of the information contained therein.

ii. Failure to furnish all information required in this RFP or submission of Bid not responsive to this RFP in any respect will be at the Bidder's risk and responsibility of Bidders and shall be summarily rejected

iii. The information provided by the Bidders in response to this RFP will become the property of the Bank and will not be returned. Incomplete information in Bid document may lead to non-consideration of the proposal.

iv. The Bid prepared by the Bidder, as well as all correspondences and documents relating to the Bid exchanged by the Bidder and the Bank and supporting documents and printed literature shall be submitted in **English**.

13. Modification and Withdrawal of Bids

i. The Bidder may modify or withdraw its Bid after the Bid's submission, provided that written notice of the modification, including substitution or withdrawal of the Bids, is received at the portal, prior to the deadline prescribed for submission of Bids.

ii. No modification in the Bid shall be allowed, after the deadline for submission of Bids.

iii. No Bid shall be withdrawn in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified in this RFP. Withdrawal of a Bid during this interval may result in the forfeiture of EMD submitted by the Bidder.

14. Payment Terms

The Bidder must accept the payment terms proposed by the Bank as proposed in this section.

The terms of payments will be as follows against the achievement of various milestones

S.No	Milestone	License Cost	Implementation Cost
1	Gap Analysis, Requirement Gathering, and BRD/SRS Sign-off	20% of License Cost	-
2	Development, installation, configuration & UAT Delivery.	20% of License Cost	10% of Implementation Cost
3	UAT signoff, including migration of data.	20% of License Cost	20% of Implementation Cost

4	Go-live on Production setup. Along with Migrated data & necessary data cleansing.	30% of License Cost	40% of Implementation Cost
5	3 Months after Successful Go -live of all modules (Post Final acceptance sign-off)	10% of License Cost	20% of Implementation Cost
6	Successful implementation of solution at DR setup.		10% of Implementation Cost
7	AMC (post completion of warranty period)	Quarterly in arrears	
8	Manday Cost (For additional changes post Go-live for all modules)	Quarterly in arrears (As per actuals)	
9	Onsite Resource cost (L1 & L2)	Quarterly in arrears (As per actuals)	
10	DB/Middleware Cost if any (other than Oracle) including bundled support for 2 year warranty period	100% on Go-Live	
11	ATS cost for DB/Middleware if any other than Oracle(Year 3 to 5)	Yearly in advance	

The terms of payments will be as follows:

(i) Post Signing of Service Level Agreement (SLA) & (NDA) between Bank and Successful bidder.
(ii) No advance payment will be made on award of the contract.
(iii) All taxes, if any, applicable shall be deducted at source as per current rate while making any payment.
(iv) Payments will be withheld in case of Non-compliance of the terms and condition of this RFP.
(v) Invoices shall be raised after completing the milestone & confirmation/sign-off of same by the Bank.
(vi) The payment will be made against the invoices duly signed by the Bank officials.
(vii) The Penalty, Liquidated Damage (LD) will be deducted subject to service level agreement of this RFP. Payment will be released after deducting the applicable penalties i.e., SLA, LD, etc., if any.
(viii) Post Successful Completion of Onboarding Assessment by the bank.

D-GENERAL TERMS & CONDITIONS

1. Standard of Performance

The bidder shall perform the service(s) and carry out its obligations under the Contract with due diligence, efficiency and economy, in accordance with generally accepted techniques and practices used in industry and with professional engineering standards recognized by the international professional bodies and shall observe sound management, technical and engineering practices. It shall employ appropriate advanced technologies, procedures and methods. The Bidder shall always act, in respect of any matter relating to the Contract, as faithful advisors to J&K Bank and shall, at all times, support and safeguard J&K Bank's legitimate interests.

2. Indemnity

The Successful bidder shall indemnify and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings (including attorney fees), relating to or resulting from:-

i. Intellectual Property infringement or misappropriation of any third-party trade secrets or infringement of any patent, trademarks, copyrights etc. or such other statutory infringements in respect of all components provided to fulfil the scope of this project.
ii. Claims made by the employees who are deployed by the Successful bidder.
iii. Breach of confidentiality obligations by the Successful bidder,
iv. Negligence (including but not limited to any acts or omissions of the Successful bidder, its officers, principals or employees) or misconduct attributable to the Successful bidder or any of the employees deployed for the purpose of any or all of its obligations,
v. Any loss or damage arising out of loss of data.
vi. Bonafide use of deliverables and or services provided by the successful bidder.
vii. Non-compliance by the Successful bidder with applicable Laws/Governmental/Regulatory Requirements.

The Successful bidder shall be responsible for any loss of data, loss of life etc. due to acts of its representatives, and not just arising out of negligence or misconduct, as such liabilities pose significant risk. It is hereby agreed that the above said indemnity obligations shall apply notwithstanding anything to the contrary contained in this Tender document and subsequent Agreement and shall survive the termination of the agreement for any reason whatsoever. The Successful bidder will have sole control of its defence and all related settlement negotiations

3. Cancellation of Contract and Compensation

The Bank reserves the right to cancel the contract of the selected Bidder and recover expenditure incurred by the Bank on the following circumstances. The Bank would provide 30 days' notice to rectify any breach/ unsatisfactory progress:

a. The selected Bidder commits a breach of any of the terms and conditions of the RFP/contract.
b. The selected Bidder becomes insolvent or goes into liquidation voluntarily or otherwise.

c. Delay in completion of Supply, Installation of Project Deliverables.
d. Serious discrepancies noted in the inspection.
e. Breaches in the terms and conditions of the Order.
f. Non submission of acceptance of order within 7 days of order.
g. Excessive delay in execution of order placed by the Bank.
h. The progress regarding execution of the contract made by the selected Bidder is found to be unsatisfactory.
i. If the selected Bidder fails to complete the due performance of the contract in accordance with the agreed terms and conditions.

4. Liquidated Damages

If bidder fails to make delivery or perform services within stipulated time schedule, the Bank shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 1% of the total project cost for delay of every 1 week or part thereof maximum up to 10% of contract price. Once the maximum is reached, Bank may consider termination of Contract pursuant to the conditions of contract. However, the bank reserves the right to impose / waive any such penalty.

5. Fixed Price

The Commercial Offer shall be on a fixed price basis, inclusive of all taxes and levies (excluding GST). No price increase due to increases in customs duty, excise, tax, dollar price variation etc. will be permitted.

6. Right to Audit

Bank reserves the right of regular and continuous monitoring of the Services provided by the Service Provider and shall conduct an audit/ ongoing audit of the services.

The Selected Bidder shall be subject to annual audit by internal/ external Auditors appointed by the Bank/ inspecting official from the Reserve Bank of India or any regulatory authority or the persons authorized by it , covering the risk parameters finalized by the Bank/ such auditors in the areas of products (IT hardware/ Software) and services etc. provided to the Bank and Successful Bidder is required to submit such certification by such Auditors to the Bank.

Bidder should allow the J&K Bank or persons authorized by it to access Bank documents, records or transactions or any other information given to, stored or processed by Bidder within a reasonable time failing which Bidder will be liable to pay any charges/ penalty levied by the Bank without prejudice to the other rights of the Bank. Bidder should allow the J&K Bank to conduct audits or inspection of its Books and account with regard to Bank's documents by one or more officials or employees or other persons duly authorized by the Bank.

Bank shall ensure audits are done annually or at any frequency mandated by regulator or internal board approved policies of the bank with at least a prior notice of 30 days, bank shall not engage any competitor to conduct audit of Service Provider and all reasonable measures related to confidentiality, non-disruption of Service Provider’s business operations shall be exercised by the bank.

7. Force Majeure

i. The Selected Bidder shall not be liable for forfeiture of its performance security, Liquidated damages or termination for default, if any to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

ii. For purposes of this Clause, "Force Majeure" means an event explicitly beyond the reasonable control of the Contractor and not involving the contractors fault or negligence and not foreseeable. Such events may be due to or as a result of or caused by act of God, wars, insurrections, riots, earth quake and fire, revolutions, civil commotion, floods, epidemics, pandemics, quarantine restrictions, trade embargos, declared general strikes in relevant industries, events not foreseeable but does not include any fault or negligence or carelessness on the part of the parties, resulting in such a situation. In the event of any such intervening Force Majeure, either party shall notify the other in writing of such circumstances or the cause thereof immediately within five calendar days.

iii. Unless otherwise directed by the Bank in writing, the selected contractor shall continue to perform its obligations under the Contract as far as reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

iv. In such a case the time for performance shall be extended by a period(s) not less than duration of such delay. If the duration of delay continues beyond a period of three months, the Bank and the contractor shall hold consultations in an endeavor to find a solution to the problem.

v. Notwithstanding above, the decision of the Bank shall be final and binding on the successful bidder regarding termination of contract or otherwise.

8. Publicity

Bidders, either by themselves or through its group companies or Associates, shall not use the name and/or trademark/logo of Bank, in any sales or marketing publication or advertisement, or in any other manner.

9. Amendments

Any provision of hereof may be amended or waived if, and only if such amendment or waiver is in writing and signed, in the case of an amendment by each Party, or in the case of a waiver, by the Party against whom the waiver is to be effective.

10. Assignment

The Selected Bidder shall not assign, in whole or in part, the benefits or obligations of the contract to any other person. However, the Bank may assign any of its rights and obligations under the Contract to any of its affiliates without prior consent of Bidder.

11. Applicable law and jurisdictions of court

The Contract with the selected Bidder shall be governed in accordance with the Laws of UT Of J&K read with laws of India so far as they are applicable to the UT of J&K for the time being enforced and will be subject to the exclusive jurisdiction of Courts at Srinagar (with the exclusion of all other Courts). However, the services from the bidder during the period of dispute or pending resolution shall continue as far as is reasonably practical.

12. Resolution of Disputes and Arbitration clause

The Bank and the Bidder shall make every effort to resolve any disagreement or dispute amicably, arising in connection with the Contract, by direct and informal negotiation between the designated Officer of the Bank for **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** and designated representative of the Bidder. If designated Officer of the Bank and representative of Bidder are unable to resolve the dispute within reasonable period, which in any case shall not exceed 30 days, they shall immediately escalate the dispute to the senior authorized personnel designated by the Bank and Bidder respectively. If even after elapse of reasonable period, which in any case shall not exceed 30 days, the senior authorized personnel designated by the Bank and Bidder are unable to resolve the dispute amicably OR any party fails to designate its officer/representative/ senior authorized personnel within 30 days from the date of request in writing for the same by the other party for amicable settlement of dispute, the same shall be referred to a sole arbitrator to be appointed by Bank. The Arbitration and Conciliation Act, 1996 will be applicable to the arbitration proceeding and the venue of the arbitration shall be at Srinagar. The language of the arbitration proceedings shall be in English. The award of the arbitrator shall be final and binding. The courts at Srinagar shall have exclusive jurisdiction at Srinagar.

13. Execution of Service Level Agreement (SLA)/ Non-Disclosure Agreement (NDA)

The Successful Bidder shall have to execute service level agreement for deliverables and successful execution of the projects to meet Banks requirement to its satisfaction. The Bank would stipulate strict penalty clauses for nonperformance or any failure in the implementation/efficient performance of the project. The Bidder should execute the Agreement within 3 weeks from the date of acceptance of Work Order. The date of agreement shall be treated as date of engagement and the timeline for completion of the assignment shall be worked out in reference to this date. The Bidder hereby acknowledges and undertakes that terms and conditions of this RFP may be varied by the Bank in its absolute and sole discretion. The SLA/NDA to be executed with the successful bidder shall accordingly be executed in accordance with such varied terms.

14. 'NO CLAIM' Certificate

The Bidder shall not be entitled to make any claim(s) whatsoever, against J&K Bank, under or by virtue of or arising out of, the Contract/Agreement, nor shall J&K Bank entertain or consider any such claim, if made by the Bidder after he has signed a 'No Claim' Certificate in favor of J&K Bank in such form as shall be required by J&K Bank after the works are finally accepted.

15. Cost and Currency

The Offer must be made in Indian Rupees only, including the following:

a) Cost of the equipment/software/licenses specified
b) Installation, commissioning, maintenance, migration charges, hosting charges, if any,
c) Comprehensive on-site software support.
d) Packing, Forwarding and Transportation charges up to the sites to be inclusive.
e) All taxes and levies are for Destinations.
f) Bidder have to make their own arrangements for obtaining road permits wherever needed.

16. No Agency

The Service(s) of the Bidder herein shall not be construed as any agency of J&K Bank and there shall be no Principal - Agency relationship between J&K Bank and the Bidder in this regard.

17. Project Risk Management

The selected bidder shall develop a process & help Bank to identify various risks, threats & opportunities within the project. This includes identifying, analyzing & planning for potential risks, both positive & negative, that might impact the project & minimizing the probability of & impact of positive risks so that project performance is improved for attainment of business goals.

18. Information Security:

a. The Successful Bidder and its personnel shall not carry any written material, layout, diagrams, hard disk, flash / pen drives, storage tapes or any other media out of J&K Bank's premises without written permission from J&K Bank.

b. The Successful Bidder's personnel shall follow J&K Bank's information security policy and instructions in this regard.

c. The Successful Bidder acknowledges that J&K Bank 's business data and other proprietary information or materials, whether developed by J&K Bank or being used by J&K Bank pursuant to a license agreement with a third party (the foregoing collectively referred to herein as "proprietary information") are confidential and proprietary to J&K Bank; and the Successful Bidder agrees to use reasonable care to safeguard the proprietary information and to prevent the unauthorized use or disclosure thereof, which care shall not be less than that used by Successful Bidder to protect its own proprietary information. Successful Bidder recognizes that the goodwill of J&K Bank depends, among other things, upon the Successful Bidder keeping such proprietary information confidential and that unauthorized disclosure of the same by Successful Bidder could damage J&K Bank. By reason of Successful Bidder's duties and obligations hereunder, Successful Bidder may come into possession of such proprietary information, even though the Successful Bidder does not take any direct part in or furnish the Service(s) performed for the creation of said proprietary information and shall limit access thereto to employees with a need to such access to perform the Services required by the Contract/Agreement. Successful Bidder shall use such information only for the purpose of performing the Service(s) under the Contract/Agreement.

d. Successful Bidder shall, upon termination of the Contract/Agreement for any reason, or upon demand by J&K Bank, whichever is earliest, return any and all information provided to Successful Bidder by J&K Bank, including any copies or reproductions, both hardcopy and electronic.

e. That the Successful Bidder and each of its subsidiaries have taken all technical and organizational measures necessary to protect the information technology systems and Data used in connection with the operation of the Successful Bidder's and its subsidiaries' businesses. Without limiting the foregoing, the Successful Bidder and its subsidiaries have used reasonable efforts to establish and maintain, and have established, maintained, implemented and complied with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or Data used in connection with the operation of the Successful Bidder's and its subsidiaries' businesses.

f. The Successful Bidder shall certify that to the knowledge of the Successful Bidder, there has been no security breach or other compromise of or relating to any information technology and computer systems, networks, hardware, software, data, or equipment owned by the Successful Bidder or its subsidiaries or of any data of the Successful Bidder's, the Operating Partnership's or the Subsidiaries' respective customers, employees, suppliers, vendors that they maintain or that, to their knowledge, any third party maintains on their behalf (collectively, "IT Systems and Data") that had, or would reasonably be expected to have had, individually or in the aggregate, a Material Adverse Effect, and

g. That the Successful Bidder has not been notified of, and has no knowledge of any event or condition that would reasonably be expected to result in, any security breach or other compromise to its IT Systems and Data.

h. That the Successful Bidder is presently in compliance with all applicable laws, statutes, rules or regulations relating to the privacy and security of IT Systems and Data and to the protection of such IT Systems and Data from unauthorized use, access, misappropriation or modification. Besides the Successful Bidder confirms the compliance with Banks Supplier Security Policy.

i. That the Successful Bidder has implemented backup and disaster recovery technology consistent with generally accepted industry standards and practices.

j. That the Successful Bidder and its subsidiaries IT Assets and equipment, computers, Systems, Software's, Networks, hardware, websites, applications and Databases (Collectively called IT systems) are adequate for, and operate and perform in all material respects as required in connection with the operation of business of the Successful Bidder and its subsidiaries as currently conducted, free and clear of all material bugs, errors, defects, Trojan horses, time bombs, malware and other corruptants.

k. That the Successful Bidder shall be responsible for establishing and maintaining an information security program that is designed to:

  - Ensure the security and confidentiality of Customer Data, Protect against any anticipated threats or hazards to the security or integrity of Customer Data, and

  - That the Successful Bidder will notify Customer of breaches in Successful Bidder's security that materially affect Customer or Customer's customers. Either party may change its security procedures from time to time as commercially reasonable to address operations risks and concerns in compliance with the requirements of this section.

l. The Successful Bidder shall establish, employ and at all times maintain physical, technical and administrative security safeguards and procedures sufficient to prevent any unauthorized processing of Personal Data and/or use, access, copying, exhibition, transmission or removal of Bank's Confidential Information from Companies facilities. Successful Bidder shall promptly provide Bank with written descriptions of such procedures and policies upon request. Bank shall have the right, upon reasonable prior written notice to Successful Bidder and during normal business hours, to conduct on-site security audits or otherwise inspect Companies facilities to confirm compliance with such security requirements.

m. That Successful Bidder shall establish and maintain environmental, safety and facility procedures, data security procedures and other safeguards against the destruction, corruption, loss or alteration of the Client Data, and to prevent access, intrusion, alteration or other interference by any unauthorized third parties of the same, that are no less rigorous than those maintained by Successful Bidder for its own information or the information of its customers of a similar nature.

n. That the Successful Bidder shall perform, at its own expense, a security audit no less frequently than annually. This audit shall test the compliance with the agreed-upon security standards and procedures. If the audit shows any matter that may adversely affect Bank, Successful Bidder shall disclose such matter to Bank and provide a detailed plan to remedy such matter. If the audit does not show any matter that may adversely affect Bank, Bidder shall provide the audit or a reasonable summary thereof to Bank. Any such summary may be limited to the extent necessary to avoid a breach of Successful Bidder's security by virtue of providing such summary.

o. That Bank may use a third party or its own internal staff for an independent audit or to monitor the Successful Bidder's audit. If Bank chooses to conduct its own security audit, such audit shall be at its own expense. Successful Bidder shall promptly correct any deficiency found in a security audit.
p. That after providing 30 days prior notice to Successful Bidder, Bank shall have the right to conduct a security audit during normal business hours to ensure compliance with the foregoing security provisions no more frequently than once per year. Notwithstanding the foregoing, if Bank has a good faith belief that there may have been a material breach of the agreed security protections, Bank shall meet with Successful Bidder to discuss the perceived breach and attempt to resolve the matter as soon as reasonably possible. If the matter cannot be resolved within a thirty (30) day period, the parties may initiate an audit to be conducted and completed within thirty (30) days thereafter. A report of the audit findings shall be issued within such thirty (30) day period, or as soon thereafter as is practicable. Such audit shall be conducted by Successful Bidder's auditors, or the successors to their role in the event of a corporate reorganization, at Successful Bidder's cost.

q. Successful Bidders are liable for not meeting the security standards or desired security aspects of all the ICT resources as per Bank's IT/Information Security / Cyber Security Policy. The IT /Information Security/ Cyber Security Policy will be shared with successful Bidder. Successful Bidders should ensure Data Security and protection of facilities/application managed by them.

r. The deputed persons should aware about Bank's IT/IS/Cyber security policy and have to maintain the utmost secrecy & confidentiality of the bank's data including process performed at the Bank premises. At any time, if it comes to the notice of the bank that data has been compromised / disclosed/ misused/misappropriated then bank would take suitable action as deemed fit and selected vendor would be required to compensate the bank to the fullest extent of loss incurred by the bank. Besides bank will be at liberty to blacklist the bidder and take appropriate legal action against bidder.

s. The Bank shall evaluate, assess, approve, review, control and monitor the risks and materiality of vendor/outsourcing activities and Successful Bidder shall ensure to support baseline system security configuration standards. The Bank shall also conduct effective due diligence, oversight and management of third party vendors/service providers & partners.

t. Vendor criticality assessment shall be conducted for all partners & vendors. Appropriate management and assurance on security risks in outsources and partner arrangements shall be ensured.

19. No Set-Off, Counter-Claim and Cross Claims:

In case the Bidder has any other business relationship(s) with J&K Bank, no right of set-off, counter-claim and cross-claim and or otherwise will be available under this Contract/Agreement to the Bidder for any payments receivable under and in accordance with that business.

20. Statutory Requirements

During the tenure of the Contract/Agreement nothing shall be done by the Bidder in contravention of any law, act and/ or rules/regulations, there under or any amendment thereof governing inter-alia customs, foreign exchange, etc., and the Bidder shall keep J&K Bank, its directors, officers, employees, representatives, agents and consultants indemnified in this regard.

21. Bidder Utilization of Know-how

J&K Bank will request a clause that prohibits the finally selected bidder from using any information or know-how gained in this contract for another organization whose business activities are similar in part or in whole to any of those of the Bank anywhere in the world without prior written consent of the Bank during the period of the contract and one year thereafter.

22. Corrupt and Fraudulent practice

i. It is required that Successful Bidder observe the highest standard of ethics during the procurement and execution of such contracts and not to indulge in any corrupt and fraudulent practice.
ii. “Corrupt Practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of an official in the procurement process or in contract execution.
iii. “Fraudulent Practice” means a misrepresentation of facts in order to influence a procurement process or the execution of contract to the detriment of the Bank and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Bank of the benefits of free and open competition.
iv. The Bank reserves the right to reject a proposal for award if it determines that the Successful Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
v. The Bank reserves the right to declare a bidder ineligible, either indefinitely or for a stated period of time, to be awarded a contract if at any time it becomes known that the firm has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23. Solicitation of Employees

Bidder will not hire employees of J&K Bank or solicit or accept solicitation (either directly, indirectly, or through a third party) from employees of the J&K Bank directly involved in this contract during the period of the contract and one year thereafter.

24. Proposal Process Management

The Bank reserves the right to accept or reject any/all proposal/ to revise the RFP, to request one or more re-submissions or clarifications from one or more BIDDERs, or to cancel the process in part or whole. No bidder is obligated to respond to or to continue to respond to the RFP. Additionally, the Bank reserves the right to alter the requirements, in part or whole, during the RFP process. Each party shall be entirely responsible for its own costs and expenses that are incurred while participating in the RFP, subsequent presentation and contract negotiation processes.

25. Confidentiality Provision

a) The bidder shall hold in confidence all the information, documentation, etc which shall come to their knowledge (Confidential Information) and shall not disclose or divulge confidential information to any third party or use Confidential Information or any part thereof without written consent of the Bank.

b) Confidential Information means information which is by its nature confidential or is designated by the bank and confidential information and includes:
   i. All information marked or otherwise designated as confident.
   ii. Information which relates to the financial position, the internal management structure, the Personnel , policies and strategies of the Bank
   iii. Data of the bank, customer lists, customer information, account information, and business information regarding business planning and operation of the Bank or otherwise information or data whether such data is permanent or otherwise

The restriction imposed in this clause does not apply to any disclosure or information:
   i. Which at the material time was in public domain other than breach of this clause; or
   ii. Which is required to be disclosed on account of order of any competent court or tribunal provided that while disclosing any information, Bank shall be informed about the same vide prior notice unless such notice is prohibited by applicable law.

26. Sub-Contracting

The services offered to be undertaken in response to this RFP shall be undertaken to be provided by the bidder/ directly employing their employees, and there shall not be any sub-contracting without written permission of the Bank. All the resources deployed by the bidder should be on the bidder's payroll.

27. Award Notification

The Bank will award the contract to the successful Bidder, out of the Bidders who have responded to Bank's tender as referred above, who has been determined to qualify to perform the contract satisfactorily, and whose Bid has been determined to be substantially responsive.

The Bank reserves the right at the time of award of contract to increase or decrease of the quantity or change in location where services are required from what was originally specified while floating the tender without any change in unit price or any other terms and conditions.

28. Suspension of Work:

The Bank reserves the right to suspend and reinstate execution of the whole or any part of the work without invalidating the provisions of the contract. The Bank will issue orders for suspension or reinstatement of the work to the Successful Bidder in writing. The time for completion of the work will be extended suitably to account for duration of the suspension.

29. Taxes and Duties:

i. Successful Bidder will be entirely responsible for all duties, levies, imposts, costs, charges, license fees, road permit etc., in connection with delivery of equipment at site including incidental services and commissioning.

ii. Income/Corporate taxes in India: The Successful Bidder shall be liable to pay all corporate taxes and income tax that shall be levied according to the laws and regulations applicable from time to time in India

iii. Tax Deduction at Source: Wherever the laws and regulations require deduction of such taxes at source of payment, Bank shall effect such deductions from the payment due to the Successful Bidder. The remittance of amounts so deducted and issuance of certificate for such deductions shall be made by Bank as per the laws and regulations in force. Nothing in the Contract shall relieve the Successful Bidder from his responsibility to pay any tax that may be levied in India on income and profits made by Bidder in respect of this contract.

iv. The Bank shall if so required by applicable laws in force, at the time of payment, deduct income tax payable by the Successful Bidder at the rates in force, from the amount due to the Successful Bidder and pay to the concerned tax authority directly.

Annexure A: Confirmation of Terms and Conditions

The General Manager
Strategy & IT
Corporate Headquarters
Jammu & Kashmir Bank MA Road, Srinagar

Dear Sir,

Sub: **RFP No** ………… for **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution, dated** …………………………

Further to our proposal dated ...., in response to the **RFP for Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** (hereinafter referred to as “RFP”) issued by Jammu & Kashmir Bank (J&K BANK) we hereby covenant, warrant and confirm as follows:

We hereby agree to comply with all the terms and conditions / stipulations, payment terms, scope, SLAs etc. as contained in the RFP and the related addendums and other documents issued by the Bank.

Place:

Date: Seal and signature of the bidder

Annexure B: Tender Offer Cover Letter

The General Manager
Strategy & IT
Corporate Headquarters
Jammu & Kashmir Bank M.A Road, Srinagar

Dear Sir,

Sub: RFP no: __________ **for Supply, installation and support of end-to-end Comprehensive Treasury Management Solution, dated _____________**

Having examined the tender documents including all annexures the receipt of which is hereby duly acknowledged, we, the undersigned, offer to **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution.**

to Bank as mentioned in RFP document in conformity with the said tender documents in accordance with the Commercial bid and made part of this tender.

We understand that the RFP provides generic specifications about all the items and it has not been prepared by keeping in view any specific bidder.

We understand that the RFP floated by the Bank is a confidential document and we shall not disclose, reproduce, transmit or made available it to any other person.

We have read, understood and accepted the terms/ conditions/ rules mentioned in the RFP, proposed to be followed by the Bank.

Until a formal contract is prepared and executed, this tender offer, together with the Bank's written acceptance thereof and the Bank's notification of award, shall constitute a binding contract between us.

We undertake that in competing for and if the award is made to us, in executing the subject Contract, we will strictly observe the laws against fraud and corruption in force in India and the UT of J&K.

We have never been barred/black-listed by any regulatory / statutory authority in India.

We understand that the Bank is not bound to accept the lowest or any offer the Bank may receive.

This Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We certify that we have provided all the information requested by the Bank in the format requested for. We also understand that the Bank has the exclusive right to reject this offer in case the Bank is of the opinion that the required information is not provided or is provided in a different format. It is also confirmed that the information submitted is true to our knowledge and the Bank reserves the right to reject the offer if anything is found incorrect.

Place:

Date:

Seal and signature of the bidder

Annexure C: Details of Bidder

Details filled in this form must be accompanied by sufficient documentary evidence, in order to facilitate the Bank to verify the correctness of the information.

S. No.	PARTICULARS	DETAILS
1	Name of the Company	
2	Postal Address	
3	Telephone / Mobile / Fax Numbers	
4	Constitution of Company	
5	Name & Designation of the Person Authorized to make commitments to the Bank	
6	Email Address	
7	Year of Commencement of Business	
8	Sales Tax Registration No	
9	Income Tax PAN No	
10	Service Tax / GST Registration No	
11	Whether OEM or System Integrator	
12	Name & Address of OEM/s.	
13	Brief Description of after sales services facilities available with the SI/OEM	
14	Web Site address of the Company	

Date:

Seal and signature of the bidder

Annexure D: Compliance to Eligibility Criteria

The bidder needs to comply with all the eligibility criteria mentioned below. Non-compliance to any of these criteria would result in outright rejection of the Bidder's proposal. The bidder is expected to provide proof for each of the points for eligibility evaluation criteria. Any credential detail not accompanied by required relevant proof documents will not be considered for evaluation. All credential letters should be appropriately bound, labelled and segregated in the respective areas. There is no restriction on the number of credentials a bidder can provide.

The decision of the Bank would be final and binding on all the Bidders to this document. The Bank may accept or reject an offer without assigning any reason whatsoever.

The bidder must meet the following criteria to become eligible for bidding:

S.No.	Eligibility Criteria	Documents Required	Compliance (Y/N)
1.	The Bidder must be an Indian Company/ LLP registered under applicable Act in India for the last 5 years as on bid submission date.	Certificate of Incorporation issued by Registrar of Companies and full address of the registered office along with Memorandum & Articles of Association.	
2.	Bidder should have an annual turnover of minimum 200 crores, for the past 3 Financial years. FY 2025-26, FY 2024-25, FY 2023-24. (Not inclusive of the turnover of associate companies). Bidders who fall under the category of Micro & Small Enterprise (MSEs) or Startups, must have registered average annual turnover of ₹ 80 Crore or above during the last three financial years FY 2025-26, FY 2024-25, FY 2023-24. (Not inclusive of the turnover of associate companies).	Copy of the audited balance sheet of the company for the consecutive last three financial years (2023-24, 2024-25 & 2025-26) should be submitted along with Chartered Accountant Certificate.	
3.	The bidder should have positive net worth and should be profitable as per audited Balance sheet for the last three	Copy of the audited balance sheet of the company for the consecutive last three financial years (2023-24, 2024-25 & 2025-	

	financial years. (FY 2025-26, FY 2024-25, FY 2023-24)	26) should be submitted along with Chartered Accountant Certificate.	
4.	Bidder should have implemented the solution with all 3 modules (Front, Mid & Back) for at least 1 Scheduled Commercial Bank in India and same shall be currently in use. The proposed solution should be operational and under support in such Banks for a minimum period of last 3 years as on 31.07.2026.	Copy of the order or Engagement Letter and / or Certificate of completion of the work.	
5.	The Bidder (OEM or Authorized Partner) should have at least 100+ technical resources on its payroll to support customization, installation, implementation, integration and periodic maintenance of the proposed solution.	Self-declaration on letterhead along with payroll records or HR certificate specifying the number of qualified resources.	
6.	The bidder should be an Original Equipment Manufacturer (OEM)/ System Integrator (SI) or their authorized representative /distributor in India.	In case of an authorized representative/distributor, a letter of Manufacturer's Authorization Form (MAF) original manufacturer developer must be furnished in original duly signed & stamped.	
7.	Bidder/OEM must warrant that key project personnel (certified solution experts) are deployed in the project implementation and support who have been involved in similar projects in last three years.	Undertaking is to be provided by the Bidder.	
8.	Bidder should have well equipped support office in India that provides support and maintenance for the offered solution on all days.	Self-Declaration/ Undertaking to this effect along with address proof to be submitted by the bidder.	

9.	The Bidder should not appear in any "Caution" list of RBI / IBA/Default/Wilful Default/ Red flag Account (RFA)/ Fraud or any other regulatory body for outsourcing activity as on the date of bid submission	Self-declaration to this effect on the company's letterhead should be submitted	
10.	The bidder should not have been blacklisted by Public Sector/Central Government / State Government(s) / PSUs / RBI / IBA / NPCI or any other Regulatory Authority as on date of submission of bid.	Self-declaration to this effect on the company's letterhead should be submitted	
11.	The Bidder should not be involved in any litigation / legal case that may affect the solvency / existence of firm or in any other way affect the bidder's Capability to provide / continue the services to Bank.	A Self-Declaration to be furnished by the bidder on the Company's letter head.	
12.	Bidder must provide information that it is not owned or controlled by any director or Key managerial official of the bank or their relatives having the same meaning as assigned under Companies Act, 2013	Letter of confirmation on company letter head duly signed by authorized official to be submitted	
13.	The Bidder to provide an undertaking on his letter head that all the technical requirements highlighted as part of Technical Scope are covered in totality in the proposal submitted by the bidder.	Self-Declaration	

Please enclose documentary proof for all the above criteria. In absence of these, the bids will not be considered for further evaluation. No further correspondence will be entertained in this case. The Bank reserves the right to verify/evaluate the claims made by the vendor independently. Any misrepresentation will entail rejection of the offer.

1. Bidders need to ensure compliance to all the eligibility criteria points.

2. Purchase orders without relevant organization confirmation through a credential letter will not be considered as credentials.
3. Documentary evidence must be furnished against each of the above criteria along with an index. All documents must be signed by the authorized signatory of the Bidder. Relevant portions, in the documents submitted in pursuance of eligibility criteria, should be highlighted.
4. Bank shall not consider the bids of bidders having poor or unsatisfactory past experience in execution or providing support to any project in past.
5. Providing any wrong information by the bidder will result in disqualification of the bidder. The Bank may cross check above parameters by any means / during site visit.
6. All Annexures must be on the letter head of the Bidder, except those which are to be provided by OEM/CA/third party.
7. All third-party documents must be signed by their authorized signatory and his/her designation, Official E-mail ID and Mobile no. should also be evident. Bidder is also required to substantiate whether the person signing the document is authorized to do so on behalf of his company.
8. No deviations from the terms and conditions of RFP will be entertained.

Annexure E: Technical Bid Format

S.No	Proposal Bid Evaluation	Evaluation Parameters	Max Marks	Documents required
1.	Total number of implementations of the proposed Solution carried out by the bidder in India during the last ten (10) years (including fresh implementations, version upgrades, subsequent integrations, and major upgrades) covering all three modules (Front Office, Mid Office, and Back Office)	• 2-3 implementations - 5 Marks • 4-5 implementations - 7 Marks • More than 5 implementations - 10 Marks	10 Marks	Copy of PO/SLA or Engagement Certificate issued by the Organization.
2	Total number of implementations of the proposed Solution in Scheduled Commercial Banks (SCBs) in India, which are currently live.	• 1 SCBs - 5 Marks • 2-3 SCBs - 7 Marks • More than 3 SCBs - 10 Marks	10 Marks	Copy of PO/SLA or Engagement Certificate issued by the Organization.
3	Number of years of experience of bidder in providing Treasury Management Solutions, including Front Office, Mid Office / Market Risk, ALM, and Back Office solutions.	• 3-5 years - 3 Marks • More than 5 years - 5 Marks	5 Marks	Copy of PO/SLA or Engagement Certificate issued by the Organization.
4	Techno Functional Requirements	Techno Functional Requirement (As per Annexure E1). The score obtained under Annexure E1 shall be normalized and converted to a maximum of 30 marks.	30 Marks	Filled Techno Functional Requirement Sheet duly signed by Authorized Representative.

5	Presentation of Solution features and capability, Product Demo, in-depth understanding of the Bank project requirements through the technical proposal covering Solution Competence, Project Governance & Timelines, Project Team alignment & Number of Onsite Resources and support availability	Committee Evaluation based on capabilities and functionalities demonstrated during presentation of the proposed solution	40 Marks	Presentation and Product Demo to be provided by Bidder
6	Site Evaluation of existing implementations	Banks Internal team may evaluate the client where the proposed solution is implemented whether through physical visit or remotely	5 Marks	Feedback from existing clients (References to be provided by bidder) Either through mail/on-site visit/ remotely as per banks discretion.
		Total	100 Marks	

We hereby confirm that our proposed Solution meet all the specifications as mentioned above and have submitted the supporting documents against each point claimed. The bank reserves the right to ask the bidder to furnish any such document as required during technical evaluation.

Signature and Seal of Company

Annexure E1:Techno Functional Requirements

Bidder is required to provide compliance as shown in below table, against each specification mentioned in below sections. The bidder has to do self-evaluation, provide compliance response and assign marks accordingly. The symbols and their description can be referred as follows:

S	Standard feature: The application has the functionality, and the functionality is delivered out of box in the software package. **Marks - 2**
C	Customize: The functionality is not available in Package but can be provided by customizing the system to meet the Bank's requirement. **Marks - 1**
U	Unavailable: means the Bidder is unable to meet the features/ requirements **Marks - 0**
All the requirements mentioned under this Annexure are mandatory and shall be complied with by all bidders. Non-Compliance or failure to meet any of the mandatory requirement may render the bid liable for rejection . Total score shall be translated to the score equivalent in Technical Bid	

SNo	Classification	Requirement Area	Requirement Description	Bidder's Response S/C/U	Bidder's Remarks / Clarification (if any)	MARKS
A-General/IT- Requirements						
1	**USER MANAGEMENT AND ROLE MANAGEMENT**	User Management	TMS should allow Addition, Deletion, Deactivation, Disable, Autodisable, Modification/ Other peripheral Induced Modifications. TMS should have Maker Checker for all user Admin Operations and shall maintain Audit Log and Audit Trial and shall support Archival and Historical Data extract.			
		User group creation	The TMS should be flexible to create the user groups as per the Bank's Hierarchy and should be configurable to change the user groups based on the Bank's requirements. TMS should			

			also be able to duplicate a user group by inheriting all his rights and Ability to assign permissions based not just on roles but also on attributes (Product, desk, asset class, function, branch etc.).			
		Role tagging	The TMS should have flexibility to allocate different activities / roles to Individual Users as well as to different user groups. Role definition should be based on following parameters at the minimum: ▪ Screen access ▪ Workflow for different functionalities ▪ Data field access ▪ Create / modify / delete / view rights ▪ Approval workflow ▪ Escalation mechanism ▪ Report generation / view			
		Admin	The TMS should support the functionality of super admin users/ superusers. The right to provide such access / rights should be with the Information security team.			
		Multifactor Authentication (MFA)	TMS should support Biometric Authentication, hardware tokens, soft tokens, MAIL/SMS OTP Authentication			
		Regulatory Compliance	RBI Cybersecurity Framework, SoD (Segregation of Duties) enforcement, Automatic account lock after failed attempts, Password policies (expiry, reuse, complexity), Automatic user disable after X days of inactivity.			
		Bulk User Management	Bulk import/export of users, Bulk role assignment			
		Segregation of Duties	TMS should prevent assigning conflicting permissions (e.g., Trade Entry + Trade Validation cannot be in same role), Dashboard for EoD and SoD violations, Automated role conflict-checking before final assignment			

		Session & Activity Policies	Automatic logout after X minutes of inactivity, Concurrent session restrictions,			
		Reporting & Monitoring	User activity reports, Role usage reports, Permission change history, Dormant user report, Login failure report, Segregation of Duty violation reports.			
		Password policy	Treasury system should support LDAP integration. The password management should be flexible and user configurable if LDAP is not used.			
		Password policy	TMS should have flexibility to define the approval process for the changes in the password policy.			
		Password policy	The TMS should support capability for all users to change and reset their password if LDAP is not followed. Passwords must contain both uppercase and lowercase characters (e.g., a-z and A-Z). Passwords must contain at least one number (e.g., 0-9). Users shall be forced to change the password on first use if not done through LDAP. The TMS should have the ability to force password changes for every user after a defined period.			
		Password security	The TMS should maintain password history up to last n (administration defined) passwords.			
2	**STATIC DATA and Features**	Counterparty Details	System should support Counter Party Details - LEI Code, KYC details, Country, Contact details			
		Counterparty Details	System should support Counter Party Details - Currency wise settlement instructions (SSI)			
		Counterparty Details	System should support Counter Party Details - ISDA/Variation Margin Maintenance			
		Currency	System should support Currency Maintenance			
		Nostro	System should support Nostro Maintenance			
		Product Data	System should support Product Maintenance			
		Product Settlement	System should support Maintaining Standard Settlement Instructions for Product			

		Instructions				
		Rate Maintenance	System should support Benchmark Rates Maintenance			
		Rate Maintenance	System should support Rate Maintenance - e.g. Closing Rates, LIBOR and other benchmark rates, FEDAI Rate, FIMMDA Valuations rates for G-Sec/Corporate Bonds, BHAV Copy for Equity, NAV from AMFI for Mutual Funds, NAV for Security Receipts, Card Rate, etc.			
		Yield Curve Data	System should support Yield Curve Maintenance			
		Master Data	System should support Security Master			
		Master Data	System should support NDTL master for CRR and SLR			
		Broker Management Data	System should support Broker Management Module			
		Standard Convention Support	Support Standard Business Day Convention, Day count Convention			
		Edit Check-Validations	Edit Check- Validations			
		Over-ride Capacity	Over-ride edited errors by raising exception having role-based override capacity			
		Currency Settlement	Early Currency Settlement functionality			
		Product Setup	TMS should have the Product Setup - Product Creation/Modification and Structuring Facility in its own.			
		Multi-Currency	TMS should support multi-currency system.			
		Support	Multiple level Support: The system should be able to provide support at multiple organizational levels & relationships and User roles.			
		File Formats	Generation of MIS in Excel, PDF, xml, csv and ADF formats or any other format as desired by the Bank.			

		Inbuilt Help Module	The system should be able to provide online and offline context sensitive help. System should have an inbuilt help feature/module.			
		Instrument Cash Flows	The Proposed solution should be capable of generating cash flows of all the requisite instruments, that can be auditable and can be interfaced with other software for their calculation purpose			
		Productivity Features	The system should have Short-cuts, smart tags, Blotters & other productivity features			
		Calendar Maintenance	The system should facilitate both Branch level/ Product level and currency calendar tables for entities, countries and Currency pairs			
		Direct Calendar Upload	Data feed by directly uploading from data aggregator.			
		Edit Functionality	The system should be able to edit & override global calendar & holiday tables. Restricted access with audit record.			
		Adjustment Functionality	Capability to adjust Cash flows, accruals, Settlement, message generation for holidays on normal & sudden basis.			
		Currency Conversion	The system should be able to convert between currencies without manually converting to the home currency as an interim step in the process			
		Define Currency	The system should be able to define home currency, Reporting Currency, wash currency & storing in any predefined currencies entity wise			
		Netting & Compression	The Proposed system should be capable of doing the FX Netting and compression as and when required.			
		Product Creation	The system should allow for the creation of products and sub-products.			
		Codes Creation	The systems should allow creation of product codes based on combination of Product and sub-product.			
		Portfolio Viewing - Classification wise	Capability to view the portfolio based on various classification for MIS and valuation purposes. Dealer wise/ Investment classification/			

			Counterparty wise/Currency wise/Settlement wise.			
		Transaction Types and Associated Codes	Set-up of transaction types and associated codes which will be allowed, adopted and offered.			
		Processing Rules	Set-up of processing rules for each transaction type like accounting for Accrued Interest, booked interest and all other income and expense items, type of transactions allowed.			
		Band Set-up	Band Set-up (min & max days) on terms & conditions within which the user must operate			
		Transaction Type based Accounting Rules	TMS should be able to set and define the Rules for accounting based on transaction type (group/Individual)			
		Product Tagging	All transactions should be tagged by product, Sub Product and Transaction codes			
		Application Scope	The system should be able to provide intuitive and current online documentation covering scope of application.			
		USER MANUALS	The system should have the ability to provide intuitive and current user manuals			
		Single Window Access	Single window access for deal entry, confirmation, settlement, redemptions, coupons, PnL and any other part of the deal life cycle. All the mentioned functionalities to be available sequentially with a single-entry point/ No requirement to log in various screens/modules for availing these functionalities/ Data input to be done only once at the initial stage and can be accessed uniformly.			
		Single access Customer creation	TMS should support and facilitate the registration of new customers (Domest. TMS on the basis of defined unique Ids and numbers, shall be able to prefill the customer related details from CBS system and vice versa. Further TMS should be able to sync customer data between the systems			

			on real time basis for both FOREX, Domestic and other products and variants.			
3	**Accounting Standard**	Accounting Standards	The system should be parametric for enabling AS-11, IndAS accounting standard at individual product level. It should be possible to use either FEDAI Rate or Market Rate for AS-11, IndAS enabled transactions (also include FIMMDA, FBIL and any other approved agencies).			
		Accounting Standards	The system should be parametric for enabling IAS39 accounting standard for Hedge accounting. Should have provision to apply multiple accounting standards in a single product.			
		Accounting Policy Adherence	The system should support weighted average method, FIFO & LIFO of accounting policy. Multiple records of the same security in T-Bills/G-Sec & other SLR & Non-SLR securities shall be grouped together for the purpose of calculating holding cost			
		Repo Accounting	Repo accounting as per RBI guidelines (incl. LAF, MSF, Reverse Repo & TREPS) and any other instrument as defined by RBI			
		Fair Value Accounting	Provision for fair value accounting			
		PNL as per IND AS	The System should also be able to calculate profit and loss etc. according to INDAS through revaluation			
		Negative Interest Rate	System should be able to handle deals with negative interest rate.			
		Cross Currency Swaps	System should have modules for cross currency swaps (Reciprocal deposits).			
		SPPI Testing	The proposed solution should have the capability to perform SPPI Testing (with template containing details which inter-alia includes details of conversion of securities, call put option details etc.) after integrating with IFRS system and the proposed solution should be able to provide necessary information and data			

			required for SPPI testing as per Bank's specified format and through Bank's specified interface integration.			
		Business Model Testing	The proposed solution should have the capability to perform Business Model Testing and Validation after integrating with IFRS system and the proposed solution should be able to provide necessary information and data required for SPPI testing as per Bank's specified format and through Bank's specified interface integration.			
		Batch Accounting, Hedge Accounting	System must support batch accounting, hedge accounting, mirror accounting, trade/value date wise accounting, amortization/accrual, deposit, withdrawal, revaluation etc. along with Negative interest and accrual thereon.			
		Amortization using IRR	System must support amortization of swap premium, should happen using Internal Rate of Return (IRR) method. TMS should support other methods as required by the Bank in future. Frequency of accounting should be user defined like daily, weekly, monthly, half yearly, yearly etc.			
		Accounting Standards Compatibility	The proposed solution should be compatible with IBAN and general accounting standards (International Financial Reporting Standards (IFRS), US Generally Accepted Accounting Principles (GAAP), Indian GAAP, International Accounting Standards, Indian Accounting Standards, etc.)			
		Accounting Standards Compatibility	As sub-ledger, generate accounting journals for trades/positions in scope following 3 set of accounting standard (IGAAP|Ind AS for India entity and IFRS|IGAAP - Journal for trades is to be generated at each component level - Position accounting for bonds & equity cash based on value(settlement) date recognition - Accounting rules that are used to generate accounting journals based on trade or position.			

		GL	System shall generate accounting entries (GL interface ready)”. System should support Data reconciliation required for: GL Positions, P&L “Support multi-ledger / multi-book accounting” “Reconciliation with CBS/GL			
4	Audit trail	Coverage	System shall maintain audit trail for all actions performed by any user. Audit logs should be searchable and reportable. The TMS should ensure support for generating user-defined log files that can be used for tracking user activities. TMS should be able to generate and track the individual user and field level changes along with altered/changed value pre and post changes. The TMS must provide complete log of successful / unsuccessful events, access to system / database by users, changes to system parameters, resources used, and actions performed along with administrator defined log files and capturing of IP address for tracking activities. Security violation report, security user profile report, user creation & grant reports, administrative activity reports, password change reports must be generated by the TMS. The TMS should have the ability to log all transaction & maintenance activity processed by administrators and save modify/delete operations.			
		Coverage	The TMS should have the ability to interface with Log management solution (For e.g., Splunk,QRadar etc.) It should be ensured that transaction logs are available in real time and can be ported to any third-party solutions.			
		Coverage	The TMS must have a utility to show audit trail to view history of changes carried out with timestamp, station name, user and IP address. The TMS should have a functionality to show the table of history of a transaction with an indication of the fields			

			modified by means of a color or a frame. Admin user should have authority to define the historical period for which the logs / audit trail must be retained. The minimum time period for retention should be one year. Application should generate an application Integrity Report.			
		Audit trail retention	Admin user should have authority to define the historical period for which the logs / audit trail must be retained. The minimum time period for retention should be one year. Application should generate an application Integrity Report. Admin users should have authority to define the historical time period after which the logs / audit trail must be purged.			
		Audit trail accessibility	Access to audit trail should be strictly controlled. Log file size should be definable, and date wise log files should be generated by the system with proper timestamping. The confidentiality of audit trail information may also be protected.			
		Maintenance of log files	On version upgrade, the TMS should ensure that older version log files are accessible, readable and usable in the subsequent version. The TMS should have support functionality to retain user logs for all disabled / deleted users.			
5	Session Management	Unsuccessful log-in attempts	The TMS should enforce a limit of consecutive invalid access attempts by a user during a period. The information system automatically delays the next login prompt according to when the maximum number of unsuccessful attempts is exceeded.			
		Session lock	The TMS should prevent further access to the system by initiating a session lock that remains in effect until the user re-establishes access using appropriate identification and authentication procedures.			

		Session termination	The TMS should automatically terminate a session after a user defined period of inactivity. When the user closes the browser without logging out and when the user chooses to logout.			
6	Security and Data Management	Encryption management	The TMS should support encryption of critical application data such as transactional data, credentials and personally identifiable information (PII). TMS should ensure transfer of information is done over secure channel using encryption techniques. The TMS should support encryption of data transmitted over all networks using appropriate cryptographic algorithms as mandated by the Bank's information security team. The bidder shall ensure complete security of customer data, transactions, and system information, in line with the RBI Cyber Security Framework and any other applicable regulatory standards			
		Vulnerability and penetration	Vulnerability and penetration testing should be performed in the UAT environment of the TMS. The security testing will be performed by an external partner. For every major change code review and VAPT shall be performed. Quarterly VA scan of the underline Infrastructure shall be performed.			
		Application security	All cryptographic elements—such as key lengths, algorithms, cipher suites, and digital certificates—shall be of the latest version, conforming to international standards and compliant with RBI's prescribed security controls. The successful bidder should comply to OWASP API Security. The bidder shall certify that the proposed solution is free from OWASP (Open Web Application Security Project) vulnerabilities and adheres to secure coding practices. The solution shall support integration with the Bank's monitoring systems, including PAM, SIEM, DAM, AD, antivirus platforms, and other SOC			

			utilities, as mandated under RBI's Cyber Security Framework and future statutory requirements.			
		Data Storage Encryption	The TMS should be compatible with implementing DB / OS / Table and cell level data encryption. The TMS should support real data time updation with time stamp. The TMS should be capable of data replication on multiple servers. The TMS should have a day-end back-up process and allow the user to configure more frequent back-ups, if required. The TMS should support full backup, differential backup, and incremental backup. The TMS should allow the users to define transaction archiving criteria. Backup of the data should be performed on separate network than live data.			
		Data backup / Archival	The TMS should be able to perform reintegration of archived data into production. The archived operation should be accessible from production access. The TMS should have the capability of saving files in a compressed format. The TMS should have the availability of a tool for monitoring the backups performed. The TMS should support simple import of data via recovery modules, from CSV, Excel or Access. The TMS should have a feature to have import simulation with consistency and integrity checks. The TMS should have a feature of recording past import errors with clear specification of errors to facilitate audit trail.			
7	General IT requirement	Data validation for automated data flow	TMS should have ability to define configurable validation rules for automated data flow from different systems / platforms and vice versa.			
		Ease of use	The TMS should provide print facility, i.e. print to file, print screen, print to printer etc. The TMS should support remote printing, with re-routable facility.			

		System process	The TMS should have a provision of entering backdated transactions. It should have provisions to restrict such transactions with appropriate controls.			
		Documentation	The TMS should have extensive documentation including but not limited to -▪ System / technical manual▪ User manual▪ Data dictionary▪ Methodology document (Explanation of different methodologies / functions within the system) ▪ Sample calculations (Examples of the calculations performed within system). The TMS should provide the documentation including the Bank specific customization / configuration. This will act as the reference point for system usage and maintenance for the Bank's internal team.			
		Notifications	The TMS should send the user notifications once a task is due to them, and it is coming from a workflow. Notifications should be configurable.			
		Messaging	The TMS should have an availability of intra-solution instant messaging for chat between users. The TMS should have the feature of archiving the conversations with search possibilities.			
		System availability	The TMS should support 24-hours x 7 days non-stop continuous processing. The user should be able to view, edit, upload and generate adhoc reports.			
		System availability	Any data upload, batch process etc. should run in the background and front-end accessibility should not be affected.			
		System availability	The vendor must also provide a detailed SLA for error handling scenarios in the system.			
		SLA report generation	TMS should be able to create all Service Level Agreement Reports such as: ▪ Response times ▪ Response code analysis classified			

			into Business and Technical declines ▪ System performance ▪ System volume growth			
		Scheduling	TMS should be able to schedule the jobs including but not limited to - ▪ Report generation,▪ Report circulation▪ Data upload,▪ Data extraction,▪ Market data upload (In case real time market data is not required and a batch process is sufficient)			
		Scheduling	The TMS should be able to run end of day process / batch process as per the schedule defined by the users during the configuration.			
		Scheduling	The TMS should have a user interface (GUI) to run EOD batch processes. TMS should have parameter driven screen to setup the batch processes/ frequency.			
		Scheduling	In case there is some error in running any of the pre-schedule jobs including End of Day processes, the system should alert the user / admin as defined during the set-up. Once the error is rectified, the jobs should proceed from the point of error and not start again from the beginning.			
		Scheduling	The TMS should have the capability to understand the failure points and manage the exceptions.			
		PERFORMANCE & SCALABILITY	The proposed solution shall be capable of handling high transaction volumes across all treasury modules without degradation in performance. The solution shall maintain consistent performance under peak load conditions, with no significant degradation in response time. The solution shall efficiently handle end-of-day (EOD) and batch processing activities within acceptable timelines. The system shall support real-time processing of deals, limits, and risk updates.			
		PERFORMANCE & SCALABILITY	The proposed solution shall support a minimum of 5000 concurrent users (to be specified by the Bank) across Treasury, Risk, Back Office, and			

			integrated channels without degradation in system performance			
		PERFORMANCE & SCALABILITY	The system architecture shall be scalable horizontally and vertically to handle future growth in user base and transaction volumes so as to assure the uptime of 99.90%.			
		Response Time & Performance	The system shall ensure real-time processing with an average response time of ≤ 3 seconds for online user transactions under normal load conditions. Critical operations such as deal capture, limit checking, and validation shall be completed within ≤ 2 seconds			
		Regulatory Compliance	The Bidder shall be solely liable for all penalties imposed by regulatory bodies (including but not limited to RBI,SEBI, CCIL, NSDL, SWIFT,FEMMDA, FEDAI etc.) resulting from operational failures or delayed system responses. The solution must maintain comprehensive event logs to facilitate root-cause analysis and identify points of failure. These logs shall be subject to verification by the Bank's team. In the event of failure, the burden of proof lies with the Solution Provider to demonstrate that the issue was not caused by the Terminal Management System (TMS)			
		DC-DR Drill	The successful bidder has to conduct DR as per the Bank's Directions or as directed by the regulator. Successful Bidders should be responsible for syncing the DR drill environment with the DC environment whenever a change is introduced at DC. Successful Bidders should be responsible for syncing the DR drill environment with the DC environment whenever a change is introduced at DC			
		DATA MGRATION	The successful bidder shall ensure end-to-end migration of all existing DATA and values. Treasury-related functionalities and configurations from the Bank's current systems to the proposed Treasury Management Solution. This shall include, but not be			

			limited to, migration of deal data, transaction history, limits, product configurations, valuation models, risk parameters, customer and counterparty profiles, user access controls, security credentials, APIs, interfaces/integrations with upstream and downstream systems, as well as all existing customizations. The migration shall be carried out in entirety with full data integrity, auditability, Data Quality and without loss of historical or regulatory-relevant information across all Treasury modules.			
		LOW CODE/NO CODE Design	TMS should have very low code or no code design and more parametric/component/template/configuration driven.			
		PRE-Built UI Design	TMS should be easy reconfigurable and every module should support redesigning and restructuring via pre built UI Elements and Templates.			
		Application security and vulnerability testing	Any kind of observations/ future bugs observed as part of application security and vulnerability testing should be addressed by the TMS.			
		Business continuity planning	The TMS must support a Recovery Point Objective (RPO) of zero at DC/ DR. RPO between DC & DR and Recovery Time Objective (RTO) should not exceed bank policy specified threshold.			
		Business continuity planning	The TMS should preferably have the ability to failover without manual intervention.			
		Business continuity planning	The TMS should be capable of supporting disk-based replication for availability. The TMS should not get affected if data redaction is performed.			
		Database Management System	The TMS should have the use of the OPEN main database management system (DBMS) on the market for the server. The TMS should support the feature of consolidation of data files from a dedicated application module.			

		Database Management System	The TMS should have the feature to export data directly from query views along with filtering and sorting possibilities on query views.			
		Statistics	The TMS should have dynamic and codeless parameterization of key performance indicators (KPI) for processes, operations or tasks. D145:D147			
		Availability Parameters	Should support load balancing in terms of system parameters (CPU, Hard Disk, memory, etc.)			
B- Business Consolidation scope						
8	**Products**	Fixed Income	TMS should support the following products along with their variants: - Fixed coupon bonds - Floating rate bonds (with defined rate index) - Variable coupon Bonds - Government Bonds (Local as well as foreign) - Corporate Bonds - Amortizing bonds - Bonds with embedded call options - Bonds with embedded put options - Zero coupon (discount) bonds. - AT1 bonds/Perpetuals			
		Structured Bonds	Interest rate (IR) structures where there might be trading in interest only in a bond's coupons or its principal (i.e. separate trading of registered interest and principal viz. STRIP).			

		Structured variants	The TMS should allow for custom handling of a stream of cash inflows and outflows occurring at regular / irregular points of time. Such structuring of cashflows should help the dealer in NPV analysis of the cashflow stream, so that an appropriate rate of return can be sought from the end client. (* This is relevant to both fixed income segment as well as to money market).			
		Equity Market	TMS should support the EQUITY Market, all its products offered. Deal Entry and data management · Equity holding cost calculation, Automated alerts for cut–loss breachs/take profit, · Auto updation of corporate actions for equity holdings · Equity, RFQ and other EBP · Risk reports · TMS should capture the cash inflows to the Bank on the investment as earnings. generated by the associated asset. · What if analysis			
		Fixed Income/ Floating Income	TMS should support: Fixed/Floating rate Government Bonds constituents wise, along with their variants.			
		Discount instrument	TMS should support Certificate of Deposit issuance. (Counterparty wise as well as ISIN wise) with individual accounting.			
		Priority Sector	TMS should support Priority sector, shortfall deposit etc.			
		Subsidiaries and Joint Ventures	TMS should support the following products:- Investment in subsidiaries, Infrastructure Trust, Joint Venture, Preferential Shares, Sponsored Institutions, Security Receipts, Venture Capital Fund, ARC etc.			

		REFINANCE	TMS should support the Refinance from different agencies.			
		NPI/NPA	TMS should support Down gradation/Upgradation i.e. from one category to other and upgradation from one category to other for all investments as per regulatory Norms.			
9	**Pre-deal analysis and Limit Check- FI**	Available limit check before booking the trade	Within the live trade blotter in the TMS the dealer should be able to view the available level of exposure-based limits as well as the risk-based limits before booking the trade. (At different filters like dealer level, country level, bank level, etc.)			
		Risk-based/ Exposure based / issuer limit check	TMS should be able to provide the facility to the front office user to check the risk-based and exposure-based limits / issuer limits (as defined in limit management section of this document) before executing the deal after inputting the deal parameters.			
		Risk-based/ Exposure based / issuer limit check	The limits utilization / availability and update should be displayed for risk-based / exposure-based / issuer-based limits on a real time basis.			
		Risk limits	TMS should allow to check impact on risk parameters such as PV01, Duration, Modified duration, Macaulay duration, VaR, pre-settlement limit, settlement limit, country limit, increase in the HTM (%), and any other standard limit on a pre-deal basis.			
		What-if analysis / simulation trade	The individual trade level impact as well as portfolio / sub-portfolio level impact on the risk parameters should be available to the user.			

		Scenario modeler (Price impact analysis)	TMS should provide a What-If scenario modeler to undertake impact analysis of the envisaged fixed income (FI) trade or set of multiple FI trades by changing different parameters such as interest rates and credit spreads etc.			
		Scenario modeler (Liquidity analysis)	TMS should be able to perform liquidity bucketing analysis and provide excess / shortage of liquidity in different time buckets. The user should be able to select the portfolios / positions to be included in such analysis.			
		Price - yield check	TMS should support calculation of yield (incl. PV, YTM and MD) through price or price through yield for different types of fixed income securities. Price (decimal terms) and yield (% terms) should be available.			
		Deal pricing with choice of interest rate curves	For pre-deal analysis TMS should allow the dealer to be able to price the FI instrument on a choice of interest rate curves to evaluate how and on which curve exactly the broader market is pricing the FI security.			
		Deal pricing with choice of interest rate curves	TMS should support pricing of a deal using all the curves configured in the system.			
		Price analysis	For every market traded bond, market traded price should be fetched through the market data feed (for example: Reuters / Bloomberg etc.), and theoretical valuation should be computed based on yield input as provided by the dealer.			

10	**Deal Capture/ Management/ Position management - FI**	FI desk structure	TMS should have flexible folder structure to capture the desk structure of the Bank. It should be customizable and as per the folder structure discussed during the configuration stage and signed off by the Bank. The following type of classification should be possible (suggestive list) – - Product wise segregation - Currency wise (Domestic / Foreign) - Business model wise (AFS/ HTM/ FVTPL/ FVTPL-HFT),Other Category/subsidiaries and joint ventures - Dealer wise - Industry / sector wise - Country exposure wise - Region / branch wise Final folder structure to be provided to the System Vendor team after finalizing the same with the Bank during configuration stage			
		Desk structure	The accessibility of the folders/menus should be restricted based on the user permissions.			
		Folder treatment	The creation of folder should be flexible and folder treatment (Valuation, risk, accounting, etc.) should be configurable.			
		Dealer workstation / workspace	The dealer workstation / workspace view should be customizable and saved. User should be able to design his/ her own workspace with the information which is most relevant.			
		Dealer workstation / workspace	It should not be a static workspace but should get dynamically updated as market data changes or deals are executed.			
		Dealer workstation / workspace	The user should be able to add / delete / modify the fields and field descriptions in the trade capture screen to make it more user / bank specific before the final configuration.			

		Shut period	TMS shall prevent any trading activity on securities during their respective 'shut period'. TMS should account for marking shut period. (*Shut period' means the period for which the securities cannot be traded.)			
		Ease of deal entry	TMS should support entry of manual deal.			
		Ease of deal entry	For fixed income securities, it should retrieve the security level information using the ISIN number based on the attributes as part of the Fixed income security master.			
		Ease of deal entry	TMS should allow for personalized quick entry features such as: - Tenors, for e.g. 1M as 1 month - Short key for large notional in thousand / million - Other standard quick entry features			
		Ease of deal capture	TMS should allow the trader to duplicate an existing deal ticket as it will help the dealer in saving time during active trading hours.			

		Deal tickets	TMS should generate a deal ticket. The format of the deal ticket should be configurable.Additionally, the treasury system should allow the deal ticket to be printed.To begin with, TMS should not be limited to , but at least capture the following details under deal ticket: - Trade date- System generated time stamp- Deal time - System generated unique deal number - Name of dealer - Transaction type i.e. sale or purchase, Repo or Rev Repo - Face value of the security- Quantity purchased/sold - Price - Yield - Coupon rate - Value date, Maturity Date - Name of counter party - Name of broker - Brokerage - Accrued interest - Settlement value - Days from previous coupon date and -Security Name along with ISIN			
		Live trade blotter	TMS should be equipped with a live trade blotter for different types of deals to be captured, such a trade blotter must come along with extensive filtering capabilities.			
		Live trade blotter	Within the TMS, live trade blotter should be populated with real time market data (for example: Reuters / Bloomberg etc.).			
		Live trade blotter	TMS should provide exposure based and risk-based information on a real time basis.			
		Deal grouping	TMS should allow multiple deals to be grouped together. It should also allow a new deal to be			

			grouped with an already existing deal.			
		Reason assignment	TMS should provide a field to capture the reason for the grouping. It could be for: Hedging purpose P&L tracking Related transactions Bond structuring			
		Deal classification	At the time of deal booking, the TMS should allow the dealer to select whether it’s a primary market purchase or a secondary market purchase			
		Deal number assignment	TMS should generate unique deal numbers for each deal ticket. If multiple deals are clubbed together then each combination should also have a unique combination / strategy ID.			
		Deal number assignment	TMS should ensure that the deal numbers assigned to expired / test / modified trades etc. in the past don’t get used again at the time of capturing a new trade in the system.			
		Cash flows	TMS should provide FI cash flow position with period wise bucketing reflecting the positive / negative cash flow gaps			
		Cash flows	TMS should have the capability to drill down from the cash flow level to the underlying exposure / deal level.			
		Inter desk position handling	TMS should have the capability to facilitate inter dealer / inter desk position transfer for better portfolio management / administration at the overall position. These should be tagged as internal deals and only specific operations should be allowed to perform on these deals under maker checker check.			

		Holiday calendar	TMS should provide flexibility to capture different holiday calendars for different products, variants and currencies.			
		Settlement date check	TMS should verify the FI deal settlement date at deal entry time to avoid situations in which settlement date falls on a holiday.In case the coupon payment or maturity date of a security falls on a holiday, the TMS should allow flexible (pre/post) handling to allow for settlement practice differences.			
		Outstanding trade monitoring (Risk sensitivities)	TMS should support computation of key sensitivity factors like Macaulay Duration, Modified Duration, Convexity, PV01 (at the aggregate level as well as on tenor basis), YTM, Current Yield for fixed income products on a real time as well as EoD basis.			
		Outstanding trade monitoring at different levels	The above set of sensitivity factors should be viewable on a real time basis with desired level of slicing and dicing of results.			
		Pricing rule hierarchy	TMS should have an ability to support curve-based mark-to-market for the bond positions apart from capturing the market traded / quoted prices for same.			
		MTM / P&L monitoring for positions	TMS should have ability to facilitate crystallized monitoring FI trades: MTM for the FI positions should be viewable in clean price / accrued interest / dirty price terms. Profit & loss (P&L) at the portfolio level for a stipulated period should be viewable in terms of realized and unrealized gains / losses.			

		Handling of irregular coupon bonds and varying face value bonds	TMS should have the capability of handling bonds with time-varying coupon e.g. bonds where different levels of fixed coupons apply to different coupon paying periods or floating rate bonds where varying levels of spread (over the floating rate index) apply to different coupon paying periods.			
		Handling of irregular coupon bonds and varying face value bonds	Likewise, TMS should be capable of supporting bonds with accreting / amortizing face value over the longevity of the bond.			
		Handling of coupons for floating rate bonds	TMS should allow the user to update the respective applicable coupon (benchmark as well as spread) in case of floating rate bonds for ensuing coupon payment cycle.			
		IR structures involving separate trading of registered interest and principal (STRIP)	It is desired that the TMS should be able to carve an IR instrument out of only the coupon associated with a bond or only the principal associated with it. With such an IR structure trade in place, TMS should be able to discount the associated cash flows on a spot curve from present value (PV) perspective.			
		Bonds with embedded options	For bonds with embedded call / put options, TMS should provide the valuation of the vanilla bond and the embedded option separately.			
		Bonds with embedded options	TMS should also support yield to call and yield to worst valuation approximation.			

		Deal classification	TMS shall support classification of a security in 'Held to Maturity' (HTM), 'Available for Sale' (AFS), and 'Held for Trading' (HFT) securities as follows:HTM investments need not be marked to market (for accounting), and the premium should be amortized to maturity (However, HTM securities need to be marked to market for internal MIS purposes)AFS securities should be marked to market at requisite frequency and the book value should not be changed after marking to market (Amortization as per EIR or other such method as Bank decide is required)HFT securities should be marked to market on daily basis. (* The above definition/rule is subjected to change and TMS shall be able to configure the same as and when required)			
		Integration with system	TMS should support integration with various dealing platforms and shall be able to import deals/ feeds on a real time basis.			
11	**Other specifications - FI**	Settlement	TMS should support settlement on T+0, T+1 or as per user choice.			
		Short sale feature	TMS should support "short sale" of securities and reflect bank's holding in a particular security as part of pre-deal screen.			
		Short sale feature	TMS should be able to provide triggers upon reaching the close out period in case of short sale transactions			
		Source of valuation	TMS should utilize Market data source prices for EoD Valuation purposes.			
		Coupon decimals	TMS should support configurable number of decimals points to capture coupons. Initial configuration should have 4 decimal points.			

		Accrued interest amount display	TMS should display accrued interest as an absolute amount and % in the deal entry system.			
		Weighted average IR measures	TMS should display a weighted average yield / Macaulay and Modified duration / PV01 for position in bonds.			
		Security detail concatenation	TMS should have configurable and consistent concatenation of security details (For e.g. Coupon/ issuer name/ Maturity date)			
		External ratings capture	TMS should capture ratings and rating agency name of an external rating agency (4 external rating) and ability to migrate the rating as per changes. Additionally, it should also maintain audit logs for rating changes.			
		Internal ratings capture	TMS should capture internal ratings and the ability to migrate the rating as per changes. Additionally, it should also maintain audit logs for rating changes.			
		Valuation for rating change	TMS should value the security by incorporating any rating changes.			
		Notification feature in case of options	TMS should have a notification feature or a report in case of call/put option exercise in advance (15-30 days).			
12	**Products and variants - FX and Currency Support**	FX - Products	TMS should support the following FX products across all currency pairs of the interest of the Bank: Cash ,Tom, Spot, FX Lending/DEPO			
		FX - Swaps / Forwards	FX Swap FX Outright forwards Non-deliverable Forward (NDF) Average forwards (AVG) Flexi Forwards FX futures Long Term Forward contracts.			

		Currency pair support	TMS should be capable of configuring any FX pair (FCY1 / FCY2 or Local currency / FCY) based on the underlying set of individual currencies as configured in the system			
		Currency pair support	Bank specified FX pairs should come preconfigured with the system for enabling fast implementation.			
		Currency pair support	Wherever there is no direct FX spot quote available for the local currency / FCY pair, then the same should be worked out based on the local currency / USD and USD / FCY triangulation.			
		Market quoted prices	TMS should be able to capture market quotes (e.g., cash/ TOM/ spot/ forwards quotes) for different currency pairs.			
		Market quoted forward / swap premium points	TMS should be capable of capturing and utilizing the market quoted forward / swap premium points (keeping in view the associated pip convention).			
		Market quoted forward / swap premium points	Wherever such forward / swap premium points are not directly observable in the market, TMS should be able to configure and maintain a defined methodology to compute the same based on interest rate parity in line with the tagged currency specific FX funding curves.			
13	**Pre-deal limit check/Pre -deal analysis - FX**	Available limit check before booking the trade	Within the live trade blotter in the TMS, the dealer should be able to view (ONLY) the available level of exposure-based limits as well as the risk-based limits before booking the trade. (At different filters like dealer level, bank level, etc.)			
		Risk-based / Exposure based limit check	TMS should be able to provide the facility to the front office user to check the risk-based and exposure-based limits (as defined in limit management section before executing the deal but after inputting the deal parameters.			

		Risk-based/ Exposure based / issuer limit check	The limits utilization / availability and update should be displayed on a real time basis.			
		Type of limits	Pre-deal limit check should be configurable, and user should be able to define which all limits need to be checked on a pre-deal basis.			
		Rate Scan	TMS should have the functionality of performing pre-deal limit checks for risk factor level rate scan bands before confirming the deal.(Treasury and non-treasury FX limits will be disjoint and not integrated. However, the aggregation of treasury FX and non-Treasury FX for net open position tracking will happen at the data warehouse)			
		What-if analysis (Limit utilization)	The dealer should get functionality to perform what-if analysis where it can see the impact of executing the trade on different limits.			
		What-if analysis (Limit utilization)	What-if analysis should be possible on all type of limits as defined in the limit management module			
		What-if analysis (Scenario modeler)	TMS should provide a What-If scenario modeler to undertake impact analysis of the envisaged FX trade or set of multiple FX trades on liquidity gaps / liquidity positions. It should be possible to see the impact on the individual currency as well as in base currency.			
		What-if analysis (Scenario modeler)	It should also show the impact on P&L based on different scenarios. The scenarios should be user configurable (pre-populated), or input driven on screen.			

		What-if analysis (Scenario modeler)	Besides, system should save curve shift scenario for what-if analysis and change/update FX Rate for what-if analysis per deal level.			
		Customer analysis	From Sales Desk purview, the TMS should be able to generate reports based on various parameters like Turnover, Outstanding Trades, Trades done during a specific period, Profit/ Loss on a particular trade deal or overall deals. A dashboard type facility shall be provided where one can see the top clients of the bank based on any above-mentioned parameter.			
		Nostro balances	At the time of booking the FX transaction within the TMS, the Nostro balancesneed to be pulled by the TMS from the Core Banking system (CBS) or from the respective Nostro Accounts with corresponding banks.			
14	**Deal Capture/Deal Management / position management - FX**	FX desk structure	TMS should have flexible folder structure definition to capture bank specific desk structure. For example, following type of segregation may need to be done - § Treasury sales - Dealer wise segregation. - Product type / variant wise segregation - Type of customer or industry / sector-based segregation - Area / Branch wise segregation - Business model wise segregation § FX interbank - - Dealer wise segregation - Currency pair wise segregation - Product type/variant wise segregation e.g. Spot, swaps, NDF, Split value, etc. § Trading, hedging, covering and arbitrage. Final folder structure to be provided to the System Vendor team after finalizing the same with the Bank during configuration stage.			

		FX desk structure	The accessibility of the folders should be restricted based on the nature of the folder and based on the user permissions.			
		Dealer workstation / workspace	The dealer workstation / workspace view should be customizable and saved. User should be able to design his/ her own workspace with the information which is most relevant.			
		Dealer workstation / workspace	It should not be a static workspace but should get dynamically updated as market data changes or deals are executed.			
		Dealer workstation / workspace	The user should be able to add / delete / modify the fields and field descriptions in the trade capture screen to make it more user / bank specific before the final configuration.			
		Corporate and interbank deal	TMS should support capture of both corporate/Merchant as well as interbank deals.			
		Generation of card rates	TMS should support generation of intraday updatable card rates for FX products. It should also support functionality to provide for configurable margin over and above the interbank rates. Such CSV / Excel based FX rate card should be exportable to other systems within the bank at designated frequency basis.			
		FX deal capture	TMS should have the ability to capture deals across maturity up to configurable number of years.			
		Ease of deal entry	TMS should support entry of manual deal.			

		STP from FX trading platforms	TMS should provide seamless and real time interface /integration with standard FX trading platforms / interfaces as per the leading practice such as FXall, Bloomberg, Refinitiv, S2B, AutoBahn, BARX, 360T, FX Clear, etc. for FX trades so that any such trades can be pushed via straight through processing (STP) into the system.			
		STP from FX trading platforms	For the FX trades pushed via STP into system (assuming a pre-deal limit check has been performed by the dealer), but if still there is an exposure based or risk-based limit getting breached, the TMS should raise instant alerts for limit breach as per the defined workflow.			
		STP from FX trading platforms	There should be an identification mechanism to identify the source system where the deal was executed and from where it is flowing into the system.			
		STP from FX trading platforms	In case there is an exception for a particular deal and it is not able to flow from the trading terminal to system, it should be notified to the user or a report should be provided			
		STP from trading swap platforms	When the deal flows from the dealing platform, the interface mechanism should account for the fact that the deal gets booked in the relevant folder depending upon its nature (Trading, Customer, BSM-synthetic depo), Nostro funding, Arbitrage) There should be separate MTM of these swaps, portfolio wise and available at any given point of time.			
		FX deal manual capture	TMS should allow for the manual FX trade capture covering all the regular FX trades as mentioned under FX product / variants and provide for a prompt for each entry field.			

		FX deal manual capture	TMS should give an error in case the rate entered is outside the rate limit for the currency pair.			
		FX deal manual capture	TMS should have pre-defined standard templates to capture the trades covering all requisite information. It should be configurable to make certain information mandatory to capture.			
		FX deal manual capture	For all the FX trades there should be a free text field in the FX deal blotter, so that any remarks specific to a FX trade can be adequately written in that field.			
		Flagging to dealers	TMS should provide dealer’s profitability / MTM / Gap / Stop loss / Limit breach defined for the dealer			
		Start / stop deal capture	TMS should have a provision to define on and off hours dealing and mark the deals entered during off hours.			
		Late Deals	Deals conducted beyond the normal market hours will get characterized by the time stamp feature			
		Ease of deal capture	TMS should allow for personalized quick entry features such as - Tenors, for e.g. 1M as 1 month Short key for large notional in thousand / million Other standard quick entry features			
		Ease of deal capture	TMS should allow the trader to duplicate an existing deal ticket as it will help the dealer in saving time during active trading hours			
		Live trade blotter	TMS should be equipped with a live trade blotter for different types of forex deals to be captured, such a trade blotter must come along with extensive filtering capabilities.			

		Live trade blotter	Within the TMS, live trade blotter should be populated with real time market data feed (for example: Reuters / Bloomberg). The following should get updated with the change in market data and should be available for treasury products: Currency gap report, Position report folder wise, Currency wise position, etc.			
		Live trade blotter	TMS should update the dealer's corporate currency position and interbank currency position separately on a real time basis as soon as a deal gets captured in the system.			
		Live trade blotter	TMS should correctly capture the type of transaction and the maturity date, and a transaction type wise, maturity date wise report should be available.			
		Handling triangulation deals	TMS should be able to split the deal if the user specify a base currency. E.g., EUR/JOD deal can be split into EUR/USD and USD/JOD deals.			
		Handling triangulation deals	The rates and other market data should be calculated and populated automatically based on the triangulation of the data from the two associated currency pairs.			
		Handling triangulation deals	The splitting of deals for triangulation is only for calculation purpose, and the settlement should happen as per the original buy / sell currencies.			
		FX Margin	In case of customers falling under a category other than direct dealing, the TMS should have the capability to capture one time bank approved margins with the provision to change margin, in case of special pricing			

		Mapping/ flagging of Borrowing / Lending deal	TMS should provide the Facility to map/ flag Borrowing/ Lending deal with respective SWAP deal if any, for separate MTM calculation and treated as hedged deal.			
		Deal grouping	Deal grouping may be required for multiple reasons. Some of the reasons are listed below - Hedging relationship Related transactions P&L monitoring Structured product			
		Deal grouping	TMS should be able to produce results for the group, as well as for the individual deals.			
		Deal number assignmen t	TMS should generate unique deal numbers for each FX deal ticket. If multiple deals are clubbed together then each combination should also have a unique combination / strategy ID.			
		Deal number assignmen t	TMS should ensure that the deal numbers assigned to expired / test / modified/ cancelled trades, etc. in the past as well don't get used again at the time of capturing a new trade in the system.			
		Deal ticket generatio n	Once deal is recorded and deal number is assigned, the TMS should have capability to generate standard deal tickets.			

		Deal ticket generation	TMS should generate a deal ticket. The format of the deal ticket should be configurable.Additionally, the treasury system should allow the deal ticket to be printed.To begin with, the TMS should at least capture the following details under deal ticket:Trade date, Security Name along with ISINSystem generated time stampDeal timeSystem generated unique deal numberName of dealerTransaction type i.e. sale or purchaseRateQuantity purchased currency and sold currencyValue date, Maturity Date, PeriodName of counter partyName of broker (if any)Brokerage (to be picked up from brokerage agreement)			
		Deal ticket generation	User should be able to define multiple formats of the deal tickets.			
		FX cash flows	TMS should provide FX cash flow position with period wise bucketing reflecting the positive / negative gaps at the currency level.			
		FX cash flows	TMS should have the capability to drill down from the cash flow level to the underlying exposure / deal level			
		FX cash flows	In case the FX trader intends to hedge an underlying FX exposure, TMS should allow the FX trader to initiate the FX trade hedging from the underlying FX trade deal blotter level itself.			
		Position monitoring	Gap / MTM should be product wise aggregating up to bank level for treasury exposures - Corporate / IB / / Loans / and up to individual dealer.			

		Currency ledger	TMS should provide a currency ledger, with proper classification of opening and closing positions, for both corporate and interbank treasury FX positions respectively. At any given point, from the system, one should be able to see the open position on account of corporate and open position on account of interbank respectively.			
		Settlement date check	TMS should verify the FX deal settlement date at deal entry time to avoid situations in which settlement date falls on a holiday. It should account for the treatment of middle eastern weekend/holiday schedule			
		Settlement date check	Settlement date as generated by the TMS should consider the associated month end roll convention as well (e.g. modified following / modified preceding etc.).			
		Real time monitoring of outstanding FX trades	TMS should allow for real time monitoring of dealer wise FX positions in terms of live MTM of the trade as well as the sensitivity / risk profiling of the trade.			
		P&L monitoring for FX positions	TMS should have ability to facilitate monitoring of profit & loss (P&L) in terms of realized and unrealized gains / losses associated with the underlying FX trade per deal level.			
		Inter desk position handling	TMS should have the capability to facilitate inter dealer / inter desk position transfer for better portfolio management / administration at the overall position. These should be tagged as internal deals and only specific operations should be allowed to perform on these deals.			
		FX Sales desk deals	TMS should have the capability to push deals with minimum manual intervention from Sales desk to Interbank desk.			

		P&L Attribution	Likewise, TMS should have capability to dissociate the trade margin between the Sales desk / branches etc. and interbank desk to be able to attribute profit share for sales / branch / interbank dealer appropriately.			
		Bilateral netting of FX positions	TMS should have the capability to perform netting of inter-bank FX cash flows positions (spot / forward / FX swap etc.) falling in any maturity bucket against a counterparty to release counter-party limits (bilateral netting only).			
		Bilateral netting of FX positions	Driven by the Bank's exposure norms policy, the FX exposure monitoring within TMS against counterparties should happen on such netted FX exposures only.			
		Deal cancellation	TMS should be able to define a workflow for deal cancellation. The front office dealer should be able to initiate the deal cancellation and depending on the processing stage, the system should be able to process the deal cancellation with appropriate position management and accounting entries. For any deal cancelled in the TMS, the system should ensure that that trader has entered a reason for cancellation.			
		Deal amendment	TMS should be able to define a workflow for deal modification. Ability to define validation / authorization mechanism should be available in the system.			
		Deal amendment	For any deal amended in the TMS should ensure that that trader has entered a reason for amendment			

		Deal amendment	The workflow should consider downstream impacts on limits, position management, accounting entries related to deal modification. TMS should be able to identify for any financial amendment. If there is a financial amendment, then it should go through a mandatory approval process			
		Record of deal modification	Any modification / amendment / cancellation/ reversal of the deal post booking and finalization should be recorded and part of audit trail.			
		Record of deal modification	TMS should be able to generate reports with details for any cancellation / amendment. It should also bear name of the person who modified the deal along with reasons captured for modification.			
		Forward deal	TMS should capture the swap points (paid or received) on account of forward early utilization/ Rollover/ cancellation.			
		Restriction to enter a deal with a counterparty	TMS should support impose a restriction (at counterparty level) to enter a deal with a specific counterparty.			
		FX margin	On the corporate FX transactions, TMS should support 2-3 layers of sales margin loading.			
		Split value deals	TMS should support revaluation of split value dated FX deals and accounting must be able to value the split transactions after considering the funding entered with the BSM desk. The intersection of such deals must be reflected in the segmental portfolio (E.g., BSM desk portfolio) to ensure that profitability is properly captured.			
		Holiday calendar	TMS should provide the flexibility to capture different holiday calendars for different products/currencies.			

15	**Request for quote (RFQ) .Process for non-card rate-based branch treasury transactions and Multi Currency Cards**	RFQ eligibility criteria	The Bank should be able to define the RFQ eligibility criteria in the TMS for non-card rate-based transactions. It can be based on the deal notional or any other criteria as defined by the Bank.			
		Products	The RFQ utility should be available for all types of FX transactions including but not limited to Cash, Tom, Spot, Split, Swap and Forward transaction. It should also be available for accepting deposits at the branches.			
		Initial deal capture	The branch personnel should be able to capture the details of the transactions such as client name/ Cust ID/ CIF ID, currency pair, type of transaction, amount, etc.TMS should support imposing a limit restriction on branch personnel in terms of the deal size which they are authorized to put a deal on the TMS supported RFQ platform.			
		Initial deal capture	The details such as client name should be from a master list maintained within the TMS supported RFQ platform. In case of such RFQ based transactions, the details fed by branch personnel on the RFQ platform should lead to a deal being booked in the TMS against the interbank desk (Sales desk won't have any positions due to wash). The initial deal capture should also capture the breakdown of the rate. For example, what was the all-in rate to the customer, what was the rate agreed with the treasury and what was the mark-up. (i.e., customer rate and closing rate)			
		Rate negotiation	Once the branch gets a request from the customer, branch personnel should be able to post it on web-based portal / branch extension of the RFQ platform available at the branch level.			

		Rate negotiation	Quote request originating from the branch should instantly get populated at the Sales/ Flow desk, the Sales/ Flow desk will in turn initiate the communication with the interbank desk. Flow Desk should also be able to punch in the rates in TMS after confirming the same from the Interbank Desk.			
		Rate negotiation	In this workflow the respective desks will apply their trade margin, accordingly the final quote given to the customer will be summation of trade margin applied at the branch level (if applicable) / Sales desk level /Flow Desk Level/ Interbank desk level			
		Rate negotiation	TMS should support live chat-based communication between the Sales desk/ Flow Desk and the branch personnel for rate negotiation and providing the rationale for accepting / rejecting quotes.			
		Rate negotiation	There could be a to-and-fro chained communication for rate finetuning with the customer / branches, Sales desks/ Flow Desks and the interbank desk at the two extreme ends of the communication, TMS should have the capability to save these conversations for future reference.			
		Rate negotiation	It is desired that there will be a TMS provided live chat utility for communication between the Interbank desk / Sales desk / Flow Desk/ Branch personnel and the quote negotiation chat will get archived with trade ID referencing (if it finally leads to a trade being done).			
		Rate negotiation	TMS should capture the user who provided the rates and the user from the branch who agreed for the rates at the end of negotiation. The user ID should be stored for future reference.			

		Flexibility of rate quotation to the customers	As part of the RFQ process, TMS should support two different quotes being given to two customers while rest of the trade attributes remain absolutely the same.			
		Time limitation	TMS should support default as well as user defined quote applicability time window assignment to the rendered quotes on a one-on-one basis.			
		Time limitation	During the volatile phases in the market, TMS should allow such time windows to be kept of very short duration e.g. 25-30 seconds as opposed to a longer duration e.g. 180 seconds in subdued / non-volatile market conditions.			
		Ability to withdraw the quotes	In case of an unforeseen scenario, TMS should allow the quote given to the branches to be instantly withdrawn from any level viz. from Interbank desk / Sales desk / Flow Desk/ Branch personnel level			
		Ability to withdraw the quotes	Once the assigned time window for the shared quote lapses, the quote shared with the customer should get automatically withdrawn.			

16	**Products & Variants - MM**	Money Market Products	The usual inception maturity of the money market instruments will be less than equal to 1 year. TMS should support the following products along with their variants - Borrowing and Lending of securities Fixed and floating interest rate loans and deposits with roll over, change of principal and interest rate change (including Step-up and step-down deposits) Fixed term money market instruments with negative interest rates Repo & reverse repo, including bilateral as well as tri-party repo trades Evergreen / Extendable Repos with flexible notice period for termination Buy and sell (on local as well as on international securities with external custodians) Banker's acceptance Call / notice / demand / Evergreen deposits/ Term Deposits Treasury bills / commercial papers / certificates of deposit/ Cash Management Bills, Pass Through Certificate etc. Mutual fund and card rates should be part of product suite. Automation of Fund flow which include forecasting of cash balance by factoring redemptions, maturity, current borrowing/lending and repayments for a particular period	1		
17	**Pre-deal limit check and Pre-deal analysis - MM**	Available limit check before booking the trade	Within the live trade blotter in the TMS the dealer should be able to view the available level of exposure-based limits as well as the risk-based limits before booking the trade. (At different filters like dealer level, bank level, counterparty limits etc.)			

		Risk-based/ Exposure based / issuer limit check	TMS should be able to provide the facility to the front office user to check the risk-based and exposure-based limits / issuer limits (as defined in limit management (section 8)) before executing the deal but after inputting the deal parameters.			
		Risk-based/ Exposure based / issuer limit check	The limits utilization / availability and update should be displayed on a real time basis.			
		Risk limits	TMS should allow to check impact on risk parameters such as PV01, Duration, Modified duration, Macaulay duraion, VaR, pre-settlement limit, settlement limit, country limit, increase in the HTM (%), and any other standard limit on a pre-deal basis.			
		What-if analysis / simulation trade	The individual trade level impact as well as portfolio / sub-portfolio level impact on the risk parameters should be available to the user.			
		Scenario modeler (Price impact analysis)	TMS should provide a What-If scenario modeler to undertake impact analysis of the envisaged Money Market (MM) instruments or set of multiple MM instruments by changing different parameters for e.g., interest rates, credit spreads etc.			
		Scenario modeler (Liquidity analysis)	TMS should be able to perform liquidity bucketing analysis and provide excess / shortage of liquidity in different time buckets. The user should be able to select the portfolios / positions to be included in such analysis.			

		Price - yield check	TMS should support calculation of yield (incl. PV, YTM and Modified Duration) through price or price through yield for different types of Money Market Instruments.Price (decimal terms) and yield (% terms) should be available.			
		Deal pricing with choice of interest rate curves	For pre-deal analysis TMS should allow the dealer to be able to price the MM instrument on a choice of interest rate curves to evaluate how and on which curve exactly the broader market is pricing the MM security.			
		Deal pricing with choice of interest rate curves	TMS should support pricing of a deal using all the curves configured in the system.			
		Price analysis	For every market traded instrument, market traded price should be fetched through market data feed and theoretical valuation should be computed based on yield input provided by the dealer.			
		Quote compariso n	TMS should be able to perform quote comparison where market available quote is compared with the theoretically calculated price.			
18	**Deal Capture/ Managem ent / position managem ent - MM**	MM desk structure	TMS should be flexible to capture the folder structure as agreed after mutual discussions. Final folder structure to be provided to the system vendor team after finalizing the same with the Bank during configuration stage The folder structure should have the deal booking flexibility for booking MM transactions in the SPV (Special Purpose Vehicle) entity.			
		Desk structure	The accessibility of the folders should be restricted based on the user permissions.			

		Folder treatment	The creation of folder should be flexible and folder treatment (Valuation, risk, accounting etc.) should be configurable.			
		Dealer workstation / workspace	The dealer workstation / workspace view should be customizable and saved. User should be able to design his/ her own workspace with the information which is most relevant.			
		Dealer workstation / workspace	It should not be a static workspace but should get dynamically updated as market data changes or deals are executed.			
		Dealer workstation / workspace	The user should be able to add / delete / modify the fields and field descriptions in the trade capture screen to make it more user / bank specific before the final configuration.			
		Deal entry	TMS should support entry of manual deal.			
		Deal entry	In case of repo transactions, TMS should calculate the repurchase price of the security at the time of settlement of second leg of the repo transaction.			
		Ease of deal entry	For fixed income securities, it should retrieve the security level information using the ISIN number based on the attributes as part of the Fixed income security master.			
		Ease of deal entry	TMS should allow for personalized quick entry features such as - Tenors, for e.g. 1M as 1 month Short key for large notional in thousand / million Other standard quick entry features			
		Ease of deal capture	TMS should allow the trader to duplicate an existing deal ticket as it will help the dealer in saving time during active trading hours.			

		Deal tickets	TMS should generate a deal ticket. The format of the deal ticket should be configurable.Additionally, the treasury system should allow the deal ticket to be printed.To begin with, the system should at least capture the following details: Trade date, Security Name along with ISIN System generated time stamp Deal time System generated unique deal number Name of dealer Transaction type i.e. borrowing / lending or sale / purchase Face value of the security Quantity purchased/sold Price Yield Coupon rate Value date, Maturity Date, Period Name of counter party Name of broker Brokerage Accrued interest Settlement value Days from previous coupon date			
		Live trade blotter	TMS should be equipped with a live trade blotter for different types of MM instruments to be captured, such a trade blotter must come along with filtering capabilities, for example based on type of product / issuer or counterparty / maturity bucket / collateralized or non- collateralized etc.			
		Live trade blotter	Within the TMS, live trade blotter should be populated with real time market data feed (for example: Reuters / Bloomberg).			
		Live trade blotter	TMS should provide the exposure based and risk-based information on a real-time basis.			

		Deal grouping	TMS should allow multiple deals to be grouped together. It should also allow a new deal to be grouped with already existing deal.			
		Reason assignment	TMS should provide a field to capture the reason for the grouping. It could be for Hedging purpose P&L tracking Related transactions Bond structuring			
		Deal classification	At the time of deal booking, the TMS should allow the dealer to select whether it's a primary market purchase or a secondary market purchase TMS shall support classification of a security in 'Held to Maturity' (HTM), 'Available for Sale' (AFS), and 'Held for Trading' (HFT) securities as follows: HTM investments need not be marked to market, and the premium/Discount should be amortized to maturity AFS securities should be marked to market at requisite frequency and the book value should not be changed after marking to market and the premium/Discount should be amortized to maturity HFT securities should be marked to market on daily basis on daily basis and the premium/Discount should be amortized to maturity			
		Integration with system	TMS should support integration with dealing platforms and import deals on a real-time basis.			
		Deal number assignment	TMS should generate unique deal numbers for each deal ticket. If multiple deals are clubbed together then each combination should also have a unique combination / strategy ID.			

		Deal number assignment	TMS should ensure that the deal numbers assigned to expired / test / modified/ cancelled trades etc. in the past as well don't get used again at the time of capturing a new trade in the system.			
		Cash flows	TMS should provide MM cash flow position with period wise bucketing reflecting the positive / negative cash flow gaps			
		Cash flows	TMS should have the capability to drill down from the cash flow level to the underlying exposure / deal level			
		Inter desk position handling	TMS should have the capability to facilitate inter dealer / inter desk position transfer for better portfolio management / administration at the overall position. These should be tagged as internal deals and only specific operations should be allowed to perform on these deals.			
		Holiday calendar	TMS should provide the flexibility to capture different holiday calendars for different products.			
		Settlement date check	TMS should verify the FI deal settlement date at deal entry time to avoid situations in which settlement date falls on a holiday. In case the coupon payment or maturity date of a security falls on a holiday, the TMS should allow flexible handling to allow for settlement practice differences.			
		MM deal / position roll over / extension / early maturity	TMS should allow roll over for principal and cumulative of principal & interest for different types of deposits and money market products.			

		MM deal / position roll over / extension / early maturity	TMS should allow extension of maturity with / without change in principal / interest / settlement of interest.			
		MM deal / position roll over / extension / early maturity	TMS should allow early maturity of the money market trades / positions with or without penalty.			
		Outstanding trade monitoring (Risk sensitivities)	TMS should support computation of key sensitivity factors like Macaulay Duration, Modified Duration, PV01 (at the aggregate level as well as on a tenured basis), money market yield on a real time as well as EOD basis.System should support, VaR (methodology-neutral),Sensitivity measures (DV01, PV01),Greeks for derivatives, Yield curve construction capabilitySystem should support Real-time limit monitoring and breach alerts.			
		Outstanding trade monitoring at different levels	TMS should support computation and population of sensitivity factor related results at various levels such as across portfolio / sub-portfolio, at the trade level and in terms of instrument type. For the MM trades having two (or more legs), TMS should demonstrate the sensitivity factors on a legged basis as well.			
		Outstanding trade monitoring at different levels	The above set of sensitivity factors (refer 6.3.30) should be viewable on a real time basis with desired level of slicing and dicing of results. Besides, such results must be graphically / pictorially representable in the system.			

		Pricing rule hierarchy	In case of MM securities, such as CP, CD and T-Bills, the TMS should have an ability to support curve-based mark-to-market for the bond positions apart from capturing the market traded / quoted prices for same.			
		MTM / P&L monitoring for MM positions	TMS should have ability to facilitate crystallized monitoring MM trades:MTM for the MM positions should be viewable in clean price / accrued interest / dirty price terms.Profit & loss (P&L) at the portfolio level for a stipulated period should be viewable in terms of realized and unrealized gains / losses.System should be capable to derive actual MTM of existing positions based on the FBIL yield curve/FTRAC in case of CD/CP and in case MF based on latest NAV from AMFI			
		Repo trade management	As specified under the products and variants section, TMS should support bilateral as well as triparty repo trades. TMS should provide the repurchase price of the collateral security under the repo trade.			
		Repo trade management	TMS should provide the flexibility to apply different levels of haircut for different types of collateral. TMS should incorporate the effect of haircut while working out the amount of notional with which a repo trade is required to be collateralized.			
		Repo trade management	TMS should support usage of multiple bonds as collateral in case of repo transactions.			
		Repo trade management	TMS should have ability to mark a security received as collateral in a reverse repo trade.			

		Repo trade management	In case of a repo transaction, TMS should support substitution of collateral during the longevity period of repo transaction.			
		Repo trade management	Besides, the TMS should have capability to distinctly mark the securities that are tagged against a repo trade so that the same is blocked from secondary market activity. There should be a check on whether the bank can short sell on a Repo. If yes, then it should flag it accordingly.			
		Repo trade management	In case of triparty repo trades, TMS should have the capability to compare / reconcile the hair cut adjusted MTM value of collateral as provided by the 3rd party agent (Clearing bank), with the TMS generated value of the collateral.			
		Interbank Borrowing / Lending	Outstanding borrowings with maturity details and matured borrowings deals' reports should be available alongside the borrowing limit capped for the bank and breaches, if any.			
		Interbank Deposit closure	TMS should have the ability to generate the correct interest amount based on the day count conventions while closing the FCY Deposit. Moreover, there should be a provision to rectify the interest manually also.			
19	**Other specifications - MM**	MM settlement	TMS should support settlement of all deals e.g repo transactions both on T+0, T+1 or as per user choice.			
		MM deal reporting	TMS should support reporting of the money market repo/ reverse repo transactions on suitable platform.			
		Repricing of deals	TMS should perform repricing of deals on need basis.			
		Coupon decimals	TMS should support configurable number of decimals points to capture coupons. Initial configuration should have 4 decimal points.			

		External ratings capture	TMS should capture ratings and rating agency name of an external rating agency (Moody’s, S&P and Fitch) and ability to migrate the rating as per changes. Additionally, it should also maintain audit logs for rating changes.			
		Valuation for rating change	TMS should value the security by incorporating any rating changes.			
		Nostro Account (FCY and LCY)	TMS should capture various balances of LCY and other Foreign Currency across Nostro accounts			
		Card Rates	System should be capable to fetch card rates of other banks and provide a comparison.			
20	**Products and variants - Derivatives**	Product coverage	Interest Rate Derivatives, Equity Derivatives, Credit Derivatives, Bond Derivatives			
		Product coverage - FX	FX Futures, Cross-currency Swaps - Principal exchange (Beginning, end, both), Principal only swap, Coupon only swap. With and without cross-currency basis adjustment.			
		Product coverage - FX	Vanilla FX OTC European strike-based call / put options including strategies such as call spread, put spread, risk reversal, forward extra, butterfly, seagull, straddle, strangle, ratio spreads, strip of options and combinations that may be leverage structures but do not have a different benchmark than the currency pair. Deferred premium options as a strategy of a loan + Vanilla FX OTC Option. TMS should also support Barrier options, digital and touch options.			
		Product coverage - FX	- Listed FX options - Flexi forward - Dual currency deposit			

		Product coverage	- IR Futures - Interest rate derivative swaps (Risk free rate-based IRS in G10 currencies), OIS and Basis Swaps with variants such as Amortizing, Accreting, Roller Coaster, Broken Period Stubs (Upfront, End, Both ends) - Caps, floors and collar - Swaptions (Since in case of G10 currencies, the IBOR to RFR transition has already happened, during the evaluation phase also, the system should have pre-configured set of RFR curves for G10 currencies)			
		Product coverage	Forward rate agreements (Both interest rate forward and bond forward)			
		Product coverage	- Commodity futures-Commodity options (Vanilla as well as Barrier)Types of exposures to be considered are Agri, Metal, Energy, etc.			
21	**Pre-deal analysis and Pre-deal analysis - Derivatives**	Available limit check before booking the trade	TMS should support functionality of performing pre-deal limit check before confirming the deal.			
		Available limit check before booking the trade	Pre-deal limit monitoring should be for exposure, tenor limit, market risk, counterparty credit risk, country limit and CVA / DVA limits			
		Available limit check before booking the trade	For the derivative trades pushed via STP into system (assuming a pre-deal limit check has been performed by the dealer), but if still there is an exposure based or risk-based limit getting breached the TMS should raise instant alerts for limit breach as per the defined workflow.			

		Type of limits	Pre-deal limit check should be configurable, and users should be able to define which limits need to be checked on a pre-deal basis.			
		Rate Scan	TMS should have the functionality of performing pre-deal limit check for risk factor level rate scan bands before confirming the deal.			
		Rate Scan	TMS should have the ability to capture market rates on the basis of which a rate scan band would be defined in the system. (incl. forwards and swaps covered under section 3 - Forex)			
		What-if analysis (Limit utilization)	The dealer should get a functionality to perform what-if analysis where it can see the impact of executing the trade on different limits.			
		What-if analysis (Limit utilization)	What-if analysis should be possible on all type of limits as defined in the limit management module in section 8			
		What-if analysis (Scenario modeler)	It should also show the impact on P&L based on different scenarios. TMS should support configuration of these scenarios and the same should be user configurable (pre-populated) or inputted on screen.			
		What-if analysis (Scenario modeler)	TMS should be able to store and retrieve What-If scenarios for the executed trades from post trade monitoring efficacy perspective.			
		Term sheet generation	TMS should be able to generate term sheets as per the configured format. Such a term sheet should provide scenario analysis as well as derivative specific risk disclosures for counterparty confirmation. The term sheet should support both English as well as Arabic language.			

		Pre-deal pricing of products	TMS should have an internal pricing tool at the point of deal entry so that the potential viability of the envisaged trade can be evaluated upfront.			
		Pre-deal pricing of products	Appropriate models as described in the MTM / valuation section should be available for pricing purpose as well.			
		Capability to apply different combinations of IR curves and other risk factors	TMS should provide a flexibility to the FO trader to apply or not to apply cross currency basis swap curves/ reference currency OIS curves.			
		Capability to apply different combinations of IR curves and other risk factors	TMS should facilitate the application of different types of interpolation techniques for curve construction on-the-fly to evaluate range of possibilities while negotiating for a trade in the marketplace.			
		Capability to apply different combinations of IR curves and other risk factors	Likewise, in case of trades where different types of spreads or volatilities can be applied in the pricing environment, TMS should provide the flexibility to the FO trader to apply spread curves / volatilities in line with their specific requirements.			

22	**Deal capture /Management/ Deal structuring - Derivatives**	Derivative desk structure	TMS should be flexible to capture the folder structure as agreed after mutual discussions. Final folder structure to be provided to the System Vendor team after finalizing the same with the Bank during configuration stage The folder structure should have the deal booking flexibility for booking derivative transactions in the head office in addition to all other locations . It should also support back-to-back covering of corporate OTC derivative transactions			
		Derivative desk structure	The accessibility of the folders should be restricted based on the nature of the folder and based on the user permissions.			
		Folder treatment	The creation of folder should be flexible and folder treatment (Valuation, risk, accounting, etc.) should be user configurable.			
		Dealer workstation / workspace	The dealer workstation / workspace should be customizable. User should be able to design his/her own workspace with the information which is most relevant.			
		Dealer workstation / workspace	It should not be a static workspace but should get dynamically updated as market data changes or deals are executed.			
		Ease of deal capture	TMS should allow for personalized quick entry features such as -Tenors, for e.g. 1M as 1 monthShort key for large notional in thousand / millionOther standard quick entry features			
		Ease of deal capture	The TMS should allow the trader to duplicate an existing deal ticket as it will help the dealer in saving time during active trading hours.			

		Live trade blotter	TMS should be equipped with a live trade blotter for different types of deals to be captured, such a trade blotter must come along with extensive filtering capabilities.			
		Live trade blotter	TMS should provide the exposure based and risk-based information on a real time basis.			
		Live trade blotter	Within the TMS, live trade blotter should be populated with real time market data from the market data provider.			
		STP from other platforms	TMS should provide seamless and real time interface (Trade by Trade) with regular trading platforms (FXall and exchange) for trades so that any such trades can be pushed via straight through processing (STP) into the TMS			
		STP from other platforms	There should be an identification mechanism to identify the source system where the deal was executed and from where it is flowing into the TMS.			
		STP from other platforms	In case there is an exception for a particular deal, and it is not able to flow from the trading terminal to the system, it should be notified to the user.			
		Cash flow generation	TMS should have the capability of generating pay-off structure / cashflow schedule of the derivative products in order for dealer to understand the impact.			
		Clubbing of deals	TMS should also have facility to combine existing set of products and define strategy. The strategy should be handled as one single deal.			
		Deal number assignment	TMS should generate unique deal numbers for each deal ticket. If multiple deals are clubbed together then each combination should also have a unique combination / strategy ID.			

		Deal number assignment	TMS should ensure that the deal numbers assigned to expired / test / modified/ cancelled trades etc. in the past as well don't get used again at the time of capturing a new trade in the system.			
		Deal capture for exchange traded derivatives	▪ TMS should have capability to capture deal information for exchange traded Derivatives e.g., FX and Interest rate derivatives. ▪ From a deal capture workflow perspective for such exchange traded derivatives, TMS should be capable of accepting an upload of trade parameters / attributes in report format, so that it can lead to the deal getting captured in proper format in the TMS			
		Credit Derivatives	TMS should be able to fetch the relevant CDS curve related to underlying entity from the market data source system.			
		Derivatives cash flows	▪ TMS should provide cash flow position with period wise bucketing reflecting the positive / negative gaps at the currency level. ▪ TMS should have the capability to drill down from the cash flow level to the underlying exposure / deal level. ▪ For the trades marked as hedging trades, TMS should provide the linkage to the underlying set of hedged exposure(s) from a position management perspective.			
		IM / VM	TMS should allow for capture of the initial margin as well as capture of variation / maintenance margin.			
		Option expiry schedule and strike event capture	For the outstanding set of Forex options, TMS should generate a scheduled report for exercise or lapse of options that should appear in the EoD along with important deal information.			

		Option Greeks at the trade and portfolio level	TMS should be capable of reporting the option Greeks vis. Delta, Gamma, Rho, Vega and Theta at the trade level as well as at the sub-portfolio / portfolio level.			
		Handling time varying notional	TMS should support creation of amortizing, accreting or roller-coaster type of notional structures for IRS and other derivative trades.			
		Capturing the value of reset interest rates for IR derivatives	For the IR derivatives where the periodically reset levels of interest rate indices e.g. USD 3M SOFR etc. get used in the IR Derivatives MTM computation, the system should capture and store the values of the reset value of the IR indices.			
		Derivatives pricing approaches	TMS should support pricing of interest rate structures based on the creation of a pricing curve from external data sources. TMS should support computation of implied volatility for FX options based of the standard volatility quotes (ATM / Delta based strikes etc.) as available in the marketplace.			
		Deal unwind / termination / modification	TMS should support unwinding / termination of derivatives trades with the ability to capture any additional charges.			
		Deal unwind / termination / modification	TMS should have the capability to value the outstanding derivatives trade based on bid / ask side risk factor quotes from deal unwind / termination perspective			

		Deal unwind / termination / modification	In case of deal modification, TMS should maintain linkage with the original trade to ensure that even after deal modification the complete deal trail is maintained.			
		Deal ticket generation	TMS should store standard deal ticket formats for different derivatives and their variants. It should also be able to run scenarios and incorporate the result of scenarios and projected cash flows as part of term sheet.			
		Back-to-back trades	TMS should have the facility to mark two deals as back-to-back deals. These deals are done in such a manner that market risk is offset and only credit risk remains with the Bank. Bank earns some spread from the trade and remains unaffected through the MTM movements till there is counterparty default.			
		Novation	TMS should handle novation of trades.			
		P&L monitoring for derivatives positions	TMS should have ability to facilitate monitoring of profit & loss (P&L) in terms of realized and unrealized gains / losses associated with Derivative at a trade level.			
23	**Hedging - Derivatives**	Initiating hedging trade	TMS should support originating the hedging trades from the underlying exposures' deal screen itself.			
		Initiating hedging trade	TMS should be capable of solving (suggesting the fair value) for the envisaged trade given a notional or fixed interest rate or option strike (depending on the nature of the envisaged trade).			
		Type of hedge	TMS should support striking a cash flow hedge as well as a fair value hedge given the underlying exposure details.			

		Type of hedge	In case of a cash flow hedging trades, TMS should support hedging the underlying cash flows partially as well as in entirety.			
		Type of hedge	In case of fair value hedge trades, TMS should be capable of suggesting a fair value hedge for the underlying exposure in part or in entirety.			
		Linkage of underlying exposure(s) and hedging trade(s)	In case a single hedging trade is done for hedging a set of underlying set of exposures, the hedging trade should provide a linkage to all the underlying exposures.			
		Linkage of underlying exposure(s) and hedging trade(s)	Vice versa given underlying exposure(s), TMS should seamlessly provide information in terms of the corresponding hedging trade ID(s).			
		Documentation of hedges	For the hedging trades in terms of documentation, TMS should support the following: ▪ On a one-on-one basis, the system should maintain underlying exposure / hedging relationship comprehensive documentation in line with Bank's specific requirements. ▪ Incremental / cumulative results of hedge effectiveness testing as per the chosen method (viz. Dollar offset / regression-based approach) on an ongoing basis. ▪ Aspects pertaining to de-designation / re-designation of an existing hedging relationship along with requisite linkage demonstration.			

		Risk factor-based hedging	▪ TMS should have the capability to hedge an underlying exposure in terms of risk factors completely as well as partially. ▪ For instance, in case of underlying FCY cash flows having an IR risk as well as well FX risk, TMS should have the capability to suggest hedging trade to cover only the IR risk or only the FX risk or both IR risk as well as the FX risk.			
		Notional rebalancing and hedge management	▪ Given the changes that may potentially be experienced in the underlying exposure cash flows, TMS should allow for hedge rebalancing by effecting modified hedging trades with updated cash flow schedule.▪ In case of imperfect hedges, TMS should allow for hedge rebalancing on a periodic basis triggered by the results of ongoing hedge effectiveness testing.			
24	**Forex Back Office Operations**	Merchant Transactions	The System Should allow back office to initiate transactions like MRS & MRP. Etc.			
		FWD/Bill	The System should allow back office to Forward/Bill Realization, Part Utilization, Early Delivery, rollover, cancellation, extension and crystallization. The System should also allow cross currency forward/bill booking, cancellation and utilizations.			
		FWD/Bill	The System should send Forward/Bill Confirmation auto generated mails to relevant branches			
		Accounts	The System should allow FCNR/RFC/EEFC account opening and maintenance/application of interest/transactions.			
		Travel Cards	The System should allow Multicurrency Travel Card Opening and maintenance/ utilization and reconciliation.			

		Interbank Operations	The System should handle all Forex interbank Operations, Deal validation, Deal settlement, All MX/MT generations, Relevant Report generations, IFIN , FRS and other file format Generations, Automated File transfer and reporting to third party systems and platforms, Automatic MT/MX flow to Swift or middleware. TMS should also handle RMA, Counterparty and Customer Management.			
		Reconciliation	The System should automatically reconcile the relevant NOSTRO and MIRROR entries.			
		Revaluation	The System should handle operations related to Revaluation of currencies.System should allow cancellation, rejection, revalidation and escalation of Forex deals			
25	**Domestic Back Office Operations**	Deals	The System Should support to generate Deal Tickets, Deal Register, Deal Confirmation, Security Ledger, Deals Done Report, Reversal of Security Deals, Subscription Deal Register etc.			
		settlement	The System should support settlement of all types of Deals, Interest Accrual, Amortization, Brokerage, TDS, Coupon, Redemption, Dividend, Buy Back, Port Folio Transfer, Miscellaneous Transactions etc (Process , Reports)			
		Reports	The System Should support to generate Master Balance of all investment (Detailed and Summary), Call Money Receipts, Coupon Receipt Reports, Out standing Deal Reports, Cash Flow Statements, Coupon Due/Overdue Reports etc.			
		Lien/Pledge	The System Should support Lien, Pledge its reversal and settlement.			

		Others	The System Should support Merger/Amalgamation/Demerger, Split/Reverse Split, Bonus etc. All Audit Reports, Balance Sheet and Profit/Loss statements etc.			
		Reconciliation	The System Should support daily reconciliation of all investment with other platforms such as Ekuber, Depositories etc. The System Should also support daily reconciliation of Shadow accounts etc.			
		Escalation/Rejection	The System Should support rejection, Cancellation, escalation and revalidation and calculation of any Deal. The system should support the escalation matrix/workflow and maker checker in all its operations.			
		Closing Activity, Automation of TPM Process	Processing and Accounting w.r.t. TPM. Treasury System should be able to calculate, modify and vouch T Price as per the data generated in MIS/CBS along with the generation of Reports.			
26	**Market data and Feeds**	Integration with Market data providers	TMS should have the capability to integrate with the chosen market data provider. E.g., Reuters, Bloomberg, Cogencis, FIMMDA.FEDAI etc.			
		Integration with Market data providers	TMS should be able to take the market data from Excel/ CSV upload as well.			
		Integration with Market data providers	It should facilitate the integration depending on the type of data licensing arrangement the Bank has with the market data providers.			
		Integration with Market data providers	TMS should be able to determine in which module the market data is captured.			

		Replication to CBS and other systems	TMS should facilitate provision of chosen market data set (e.g., FX spot rates) to CBS and other applications where the market data is required in order to ensure there is one market data source being used across the Bank.			
		Historical market data	TMS should be able to store and retrieve historical market data in line with the business user's needs.			
		Historical market data	TMS should have the ability to provide audit trail and time stamp for market data fetched into TMS.			
		Historical market data	Both raw and calculated market data (e.g. ZCYC) should be stored to ensure the replication of past environment in case of any need (regulatory or internal).			
		Reasonability / sanity check	TMS should facilitate performance of market data reasonability check through pre-configured rules for ensuring sanity in the market data.			
		Ability to download FX related data	Ability to download FX – spot rates / forward points for the currency pairs of interest at the Bank, as defined in the currency master.			
		Ability to download FX related data	TMS should support cross currency triangulation for currencies that are not traded against each other in interbank market.			
		Ability to download FX related data	TMS should support capturing standardized volatility quotes as available on the chosen market data provider.			
		Computation of FX implied volatility	TMS should support computation of FX implied volatility using leading interpolation techniques (e.g., bi-cubic spline, Vanna Volga, etc.) for an option given its time to maturity and strike based on the standardized volatility quotes as downloaded from chosen market data provider.			

		Computation of FX implied volatility	TMS should support computation of FX implied volatility based on FX spot delta as well as FX forward delta.			
		Ability to download the interest rate curves	TMS should support download of all permissible currency interest rate curves including the risk-free rate (RFR) curves in case of G10 currencies for the post-IBOR era from chosen market provider for different tenors.			
		Ability to download the interest rate curves	TMS should have ability to download different types of cross currency basis swap curves.			
		Ability to upload JOD FTP curves	TMS should support upload of internal FTP curves maintained by the Bank and intra-day as well as end of day (EoD) upload into the market data environment of TMS.			
		Ability to provide the interest rate curves	TMS should have the ability to provide interest rate for farthest available tenor			
		Market data snapping	TMS should have the facility to take the market data snap at a pre-defined time to be used for MTM purpose.			
		Market data snapping	TMS should be flexible to perform snapping of market data for different time zones and thereby creating different market data sets.			
		Market data transformation	TMS should support bootstrapping and interpolation of Interest rate curves.			

		Security data	TMS should have the capability to download the market traded / observable prices for bonds of interest to the Bank's treasury. System should support level 1, level 2 and level 3 approach-based valuation as required by IFRS 13			
		Security data	Based on the ISIN, TMS should pick up the security master-related details from the market data sources.			
		Credit rating of securities	TMS should support capture and maintenance of credit rating of securities. (Internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			
		Credit rating of securities	TMS should support capturing any changes in the ratings of any security in Bank's portfolio in the form of a report.			
		Ability to download and maintain rate spread data	TMS should have the ability to capture market risk feed for CDS spreads from the chosen market data provider.			
		Equity / MF data download	TMS should have the ability to capture market risk feed for equity / MF price data from the chosen market data provider.			
		Corporate action	TMS should have ability to fetch and record the corporate actions such as dividend, rights issue, stock split, bonus issuance, etc.			
		Corporate action	The impact of corporate actions should be automatically adjusted for the position maintenance and MTM valuation.			

		Equity proxy	TMS should allow the user to upload proxy data, especially in the case of a new issuance or an illiquid security. The proxy can be used either for risk measure calculations, correlation calculations or calculation of inputs for valuation purpose.			
		Commodity market data	TMS should have the ability to capture market data feed for spot and forward curve for commodities pertaining to following classes vis. Agri / energy / metals from the chosen market data provider.			
		Credit rating of securities	TMS should support average credit rating calculation at portfolio level.			
27	**MTM /Valuation/Generation of Secondary Market Data**	Interest rate curve construction	TMS should come equipped with whole gamut of pre-configured interest rate curves / segmental instruments in line with as of date leading global and regional treasury practices.			
		Interest rate curve construction	TMS should have flexibility to capture multiple curves for a currency to satisfy the requirements of different instrument types. TMS should save the default curve for each currency.			
		Interest rate curve construction	TMS should support interest rate curve construction in case of internal FTP curve as well.			
		Interest rate curve construction	TMS should provide option to construct and use yield curves using any one of bid, offer or mid-rates.			

		Interest rate curve construction	TMS should have facility to build custom curves based on the following instruments at the minimum -▪ Treasury Bills / Deposit rates / other MM instruments▪ Bond issuances▪ Futures▪ FRA▪ Swaps			
		Zero coupon / Forward rate generation	TMS should have ability to generate zero coupon yield curve and forward rates based on the selected underlying interest rate curves.			
		Zero coupon / Forward rate generation	TMS must have bootstrapping capability for sovereign yield curves, swap curves, credit curves, algebraic curves and with combination of different curves.			
		Zero coupon / Forward rate generation	Interest rate curve bootstrapping within TMS should be based on defined set on interest rate instruments for short / medium / long tenors e.g. in case of USD SOFR based IRS curve TMS should construct it based on tenored ARR (shortest end of the curve) and swap quotes (medium and long end of the curve).			
		Zero coupon / Forward rate generation	TMS should support IBOR transition and the ability to construct ARR curves instead of IBOR curves.			
		Zero coupon / Forward rate upload	TMS should have functionality for user to directly upload zero coupon curve points, forward rates and discount factors and store them in TMS.			
		Zero coupon / Forward rate upload	User should have flexibility to use the custom uploaded values instead of system generated values.			

		Interpolation techniques	Bootstrapping of the interest rate curves in TMS should be performed based on range of interpolation techniques covering (but not restricted to)▪ Piece wise linear▪ Exponential rate / discount factor smoothening▪ Cubic Spline Interpolation logic - Include Log linear on Discount factor for IR curvesTMS should be able to handle customized cash flows and Stub configurationsTMS should be able to calculate tenor bucket wise Greeks sensitivities at trade and curve / vol. level▪ Monotone convexThe user should have the option to select the technique for each curve.			
		Basis curve incorporation	TMS should have the capability to handle relevant basis curves and the implied forward rate estimation should take into consideration such basis effect.			
		Basis curve incorporation	TMS must have capability to handle cross currency (USD SOFR vs EUR ESTR) basis curves and the discount curve for relatively illiquid currency in the FX pair (e.g. EUR in case of EUR/USD pair) should consider the cross-currency basis effect where applicable (principally cross currency basis curves are quoted for USD against permissible currencies).			
		Support for market conventions	TMS should comprehensively support the different conventions that are applicable to fair valuation of different types of cash / derivative product.			
		Support for market conventions	TMS should allow user to change the market conventions at deal levels and also for scenario analysis.			

		Support for market conventions	TMS should have functionality to define default market conventions for in scope set of product types.			
		Day count conventions	TMS should support the following day count conventions at the minimum:- Act / Act- Act / 365- Act / 360 - 30 / 365 - 30 / 360 (European as well as US convention)			
		Compounding frequency	TMS should support different compounding frequencies (Continuous, overnight, daily, weekly, monthly, quarterly, semi-annually, annually).			
		Settlement conventions	Product specific settlement conventions (e.g. T+0, T+1, T+2 and split value, etc.).			
		Holiday Calendars	Handling of multi-currency holiday calendars / conventions on single as well as paired basis.			
		Holiday Calendars	Ability to export standard holiday calendars to another system or import from a third-party provider (e.g., Copp Clark holiday calendars).			
		Roll Conventions	TMS should support triggering roll conventions for settlements falling on month end / holidays (e.g. modified following and modified preceding etc.).			
		Discounting Curve	TMS should support overnight index swap (OIS) based discounting of cash flows for centrally cleared (where central counterparty mechanism is involved) trades.			
		Discounting Curve	For the trades covered by credit support annex (CSA) agreements also OIS discounting should be supported by TMS.			

		Discounting Curve	TMS should have adequately documented model for demonstrating how exactly dual curve stripping / resultant curve is generated in TMS for OIS discounting of cash flows.			
		Mark to Market	Notional profit or loss on each deal / product should be available to the Mid-Office. FBIL / FIMMDA valuations rates and integration of MTM with CBS			
		Mark to Market	Profit or loss on each contract, Merchant Counterparty-wise should be available to the Mid-Office.			
		Mark to Market	Notional profit or loss (MTM) on FX products should be available to the Mid-Office.			
		Mark to Market	For exchange traded products, mark to market with the latest traded prices should be fetched from the market data source system. In case, the exchange traded price is not available, valuation models available in TMS should be used.			
		Mark to Market	For market traded products where no direct quote / price is available, TMS should provide MTM using in-built valuation models.			
		FX intraday valuation	Daily intraday MTM valuation should be calculated based on real time tickers mapped from the market data source system in TMS.			
		FX EoD valuation	Daily EoD MTM valuation should be calculated based on EoD tickers mapped from the market data source system in TMS.			
		Intraday valuation for equity and exchange traded funds	Daily intraday MTM valuation for equity and exchange traded funds should be fetched based on real time data from Exchange based on tickers mapped from the market data source system in TMS.			

		EoD valuation for mutual funds	Daily EoD valuation for mutual funds should be calculated based on NAV as published under designated tickers in the market data source system in TMS.			
		Interest rate Swaps / Cross currency swaps	TMS should have flexibility to value all possible combinations of interest rate swaps and cross currency swaps. ▪ Principle only swaps ▪ Principal exchange (Beginning, end, both) ▪ Vanilla currency swaps▪ Coupon only swaps ▪ Fixed to floating IRS ▪ Vanilla swaps (FCFC and JOD as applicable) ▪ Amortizing IRS / CCS ▪ Accreting IRS / CCS ▪ Custom cashflow schedules ▪ Roller Coaster Swaps ▪ Basis Swaps & Broken Period Stubs (Upfront, End, Both ends) ▪ OIS			
		FX Options	TMS should have appropriate market standard models to value FX options and associated strategies. Some of the models are mentioned below but these are not exhaustive - ▪ Garman – Kohlhagen (FX adaptation of Black Scholes) ▪ Vanna Volga			
		Linear interest rate products	For the linear interest rate products, TMS should support cash flow discounting-based approach for valuation coupled with capability to estimate forward interest rates wherever required.			

		Cash flow discounting	TMS should support par YTM based valuation for FI / MM products. For money market products, money market yield as well as bond equivalent yield should be computed. For fixed income products with current TTM less than 1 year, TMS should support computation of money market yield. Valuation mechanism should support discounting of cashflows under varying compounding frequencies including continuous compounding.			
		Cash flow discounting	TMS should support spot curve-based valuation (ZCYC) and YTM for risk quantification purposes (to avert the risk associated with reinvestment of periodic coupons received on the security) for SLR as well as NSLR bonds.			
		Cash flow discounting	TMS should have facility to include add-on spread along with the interest rate curves for the valuation curves (either based on FX forward points and IRP or using cross currency basis swaps) for valuation of FX products Modified MIFOR curve for valuation of INR FX derivatives CSA curves separately basis the currency of the collateral for valuation of trades where there is collateral posted			
		Cash flow discounting	TMS should have the analytical capability to back calculate z-spread (zero coupon spread) daily for the coupon bearing fixed income securities to equate the par YTM based price with the spot curve-based price, such z-spread should be used in the market risk quantification of the fixed income security on a day-to-day basis.			
		Custom models	System should accept integration with custom models / take the valuation as input in case user want to use an external model for the MTM / Valuation purposes.			

		Inception date vs as of data analysis	TMS should help in performing following types of comparisons: ▪ Holding period profit & loss (P&L) (since inception / day over day basis). ▪ Total coupon received. ▪ Yield (at purchase & at valuation). ▪ Greeks (at purchase & at valuation).			
		In-built calculator for quick valuation of cash / products	It is desired that TMS should come equipped with a handy in-built calculator for quick valuation of the range of products. Such an in-built calculator should perform MTM valuation based on live market data feed from the chosen market data source system.			
		Computation of implied volatility	TMS should have the capability to capture market quoted FX volatilities for ATM puts / calls (Straddle), Delta Strike Based Strangle and Butterfly structures.			
		Computation of implied volatility	Implied volatility as computed by TMS should take into consideration the skew effect for the strikes away from ATM level (both for ITM and OTM strikes).			
		Computation of implied volatility	For the FX asset class, the volatility surface should be calibrated based on the market acceptable volatility models. The following models are expected to be available at the minimum - ▪ Adapted bi-cubic Black Scholes (Garman Kohlhagen version) ▪ Vanna Volga			
		Computation of implied volatility	To account for smoothened implied volatility extraction from the calibrated volatility surface, TMS should support cubic spline interpolation at a minimum besides supporting other interpolation techniques.			

		Computation of implied volatility	TMS should be flexible for users to upload custom built implied volatility structure calculated outside TMS. The same should be allowed to be tagged for valuation and/or scenario analysis.			
28	**VaR Methodologies / Expected shortfall/ Backtesting**	General approach	TMS should allow the user to calculate VaR based on Historical and Monte Carlo Simulation approach.			
		Historical Simulation Approach	It should be computed based on historically simulated scenarios. The parameters for historical simulation should be configurable. ▪ Lookback period (e.g. 250 or 500 business days) ▪ Horizon (e.g. 1 or 10 days). ▪ Confidence Interval (e.g. 95% or 99%)			
		Historical Simulation Approach	Beside for the HS VaR the probability of occurrence of scenarios can be based on equal weight (EQWT) or can be based on exponentially weighted moving average (EWMA) approaches.			
		Historical Simulation Approach	Different type of risk factors should be allowed to perturbed using different approach such as absolute difference, relative difference and logarithmic difference.			
		Historical Simulation Approach	For IR asset class spot rate based / YTM based perturbed curves should be used so as to avoid the shortcoming associated with reinvestment of coupons.			
		Historical Simulation Approach	The historical simulation should be done at a risk factor level and should not be limited to price level only. User should be able to choose the risk factors for which VaR needs to be calculated (This facility is also required for risk factor wise VaR attribution).			

		Pricing models for full revaluation based VaR	For HS VaR, TMS should use full revaluation-based pricing models so that at the portfolio level full revaluation-based HS VaR can be computed.			
		Pricing models for full revaluation based VaR	TMS should also support the sensitivity factor-based revaluation approach for VaR computation. This can help for increasing the performance; however, this should be user configurable.			
		Product coverage	TMS should calculate individual product wise, asset class wise portfolio VaR for treasury (trading & banking book) products.			
		Portfolio VaR	VaR should get calculated at a portfolio level as well as sub-portfolio level.			
		Portfolio VaR	The aggregation level for the portfolio should be user definable.			
		Marginal VaR / Incremental VaR	System should have capability to calculate Marginal / Incremental VaR (the additional amount of VaR that a new position will add to the portfolio VaR).			
		Marginal VaR / Incremental VaR	TMS should allow user to calculate marginal / Incremental VaR for portfolio analysis as well as during pre-deal analysis to assess level of additional risk a position can increase. (Simulated trade)			
		Component VaR	System should have facility to calculate component VaR (the VaR associated with the principal component(s) of a portfolio).			
		VaR drill down	TMS shall have the ability to drill down the VaR by various dimensions to the cash flow and instrument level for the purpose of risk analysis.			

		Backdated VaR	TMS should have the capability to upload backdated position data / portfolios in the VaR environment. On such backdated portfolio, TMS should provide the flexibility to compute VaR for a chosen historical date.			
		Dissociation of VaR / Attribution	TMS should be able to provide the dissociated VaR at the high-level factors e.g. IR and FX.			
		Dissociation of VaR / Attribution	TMS should be able to provide the dissociated VaR based on Taylor techniques as needed e.g. VaR figures should be computed for the risk-free IR curve related risk factor.			
		VaR scalability	TMS should have an option for scalability regarding holding period / horizon for VaR computation.			
		Scenario generation	TMS should have the capability to capture historical market data set spanning couple of years besides daily archival of market data post go-live. This data set should be used by TMS for generation of historical simulation-based scenarios across risk factors.			
		Backtesting approach	TMS should perform the VaR backtesting at user defined frequency based on actual losses incurred vis-à-vis the VaR model forecasted losses.			
		Backtesting approach	TMS should be capable of performing hypothetical as well as actual backtesting.			
		Backtesting exception analysis	System should identify backtesting exception and compare the number of exceptions with the allowed number of exceptions based on the confidence interval.			

		Backtesting exception analysis	TMS should provide the flexibility to drill down to the trade level while evaluating the results of backtesting, so that the actual trade(s) that are leading to backtesting exception at the portfolio level can be specifically addressed.			
		Backtesting exception analysis	TMS should allow to perform backtesting analysis at the sub portfolio level as well.			
		Backtesting Report	TMS should support generation of the backtesting output report in a flexible manner in line with user / portfolio specific requirements.			
		Backtesting Report	System should store historical backtesting exception.			
		Backtesting Report	TMS should be able to perform backtesting as on a historical date and generate report for the same even if it is not able to display it on the screen.			
		Stressed VaR Methodology	TMS should have functionality to calculate stressed VaR using historical simulation approach.			
		Stressed VaR Methodology	TMS should allow user to select stressed period to be used as look back period for historical simulation VaR calculation.			
		Stressed VaR Methodology	All flexibilities required for normal VaR calculation should also be available for stressed VaR calculation.			
		Stressed VaR Methodology	TMS should have the capability to handle negative perturbed values for the interest rate curves.			
		Stressed period	TMS should help in the generation of stressed simulated scenarios basis the relevant period historical data set (e.g. from the sub-prime crisis period) as uploaded in the market data environment.			

		Stressed period	The user should have flexibility to define different stressed period for different risk factors.			
		Calculation frequency	TMS should be able to run stress period simulation at a user defined frequency and use the stress period identified to run the stressed VaR on a daily basis.			
		Quantile based ES	TMS should have facility to calculate Expected shortfall.			
		Quantile based ES	It should take into account the portfolio losses that can be incurred at quantiles higher than the confidence level at which VaR is being computed and take an expectational aggregate of same.			
		Monte Carlo Simulation Approach	It should be based on the implemented model (within TMS) driven simulated scenarios for the comprehensive set of risk factors (as opposed to history-based scenarios in HS VaR).			
		Monte Carlo Simulation Approach	Appropriate underlying model should be used for different risk factors and the same should be calibrated using available traded market data.			
29	**Risk sensitivities**	PV01 / CS01	TMS should be capable of computing the PV01 and CS01 (price value of one basis point in credit spread) at individual product level as well as at the aggregate portfolio level i.e. across tenors as well as across set of IR curves.			
		PV01	It should use both upward and downward shift in the underlying curve and observe the impact to calculate PV01.			
		PV01	For near and far leg of a FX Swap, TMS should have capability to calculate PV01 for each.			
		PV01	In case of other types of IR / FX linear derivatives, for different legs of a trade TMS should have capability to calculate PV01 for each of the legs along with the trade level.			

		Macaulay Duration	TMS should be capable of computing the Macaulay Duration at the trade / portfolio level as well as for the two legs of a Swap (IRS / CCS) separately.			
		Modified Duration	TMS should be capable of computing the Modified Duration at the trade / portfolio level as well as for the two legs of a Swap (IRS / CCS) separately.			
		Convexity	TMS should be capable of computing the Convexity (second order sensitivity) at the trade / portfolio level as well as for the two legs of a swap (IRS / CCS) separately.			
		Key performance measures at the portfolio level	From a portfolio performance evaluation perspective, TMS through its analytical capability should support the computation of following types of risk adjusted return measures (non-exhaustive): ▪ Sharpe ratio ▪ Treynor ratio ▪ Sortino ratio, etc.			
		Option Greeks	TMS should be capable of computing the following types of option Greeks across range of option types for FX (non-exhaustive): ▪ Delta (regular Greek) ▪ Gamma (regular Greek) ▪ Vega (regular Greek) ▪ Theta (regular Greek) ▪ Rho (regular Greek) ▪ Vanna (i.e. 2nd order Greek, 1st derivative w.r.t. underlying price and 2nd derivative w.r.t. implied volatility)			
		Capital computation	TMS should support calculation of market risk capital charge using the Standardized measurement method (SMM). SMM capital computation to be covered as a dedicated report under reporting. Illiquidity premium calculations and cross holdings			

30	**Stress testing / Scenario analysis**	Risk factors	TMS should allow to define the scenarios for each risk factor. Each tenor of the curve and each forward point should be treated as separate risk factor.			
		Risk factors	User should have flexibility to define shocks for a risk factor and replicate the same for other risk factors.			
		Stress scenarios	TMS should have functionality to define multiple stress scenarios for each portfolio.			
		Stress scenarios	The stress scenarios should be named and saved for later use.			
		Stress scenarios	The user should be able to select one or more saved scenarios at the time of performing stress testing.			
		Stress scenarios	The user should be able to configure the stress scenarios to be applied at a pre-defined frequency and generate report.			
		Stress scenarios	The user should be able to attach the scenarios at a portfolio as well as sub-portfolio level.			
		Stress scenarios	The following type of IR curve shifts should be allowed: ▪ Parallel shift ▪ Non-Parallel shift ▪ Shape change (Flattener and Stepner)			
		Stress scenarios	TMS should be able to capture historical stress scenarios based on the historical stress events.			
		Stress scenarios	TMS should capture the duration of historical events as well while defining the scenarios.			
		Stress testing methodology	TMS should support stress testing analysis based on uploaded statistical technique-based risk metrics for the pertinent set of risk factors.			
		Stress testing methodology	TMS should perform stress testing along the lines of full revaluation-based approach.			

		Stress testing methodology	Under the historical stress event-based approach, TMS should be able to support a proxy mapping logic given that historical stress data might not be available for some of the risk factors applicable to the Bank's as of date portfolio.			
		Output analysis	TMS should be able to drill down the result and do the attribution analysis of the stress testing results.			
		Multifactor approach-based analysis	TMS should be able to support range of risk factor orientations from the scenario library of the Bank or as prescribed by the regulator.			
		Multifactor approach-based analysis	Scenario analysis to be performed by TMS should be based on full revaluation-based approach.			
		Attribution analysis for day over day P&L variation	TMS should be able to perform a risk factor-based attribution analysis of the day over day variation in the portfolio P&L. TMS should support Taylor approximation techniques for making risk factor level attribution analysis of the day over day P&L changes.			
31	**Counterparty Credit Risk (CCR)**	Industry / sector rating-based spreads and named CDS based spreads	TMS should be able to get the indication of credit risk for the counterparty and country. The following approaches can be used: ▪ TMS should be capable of assigning credit ratings and spreads for pertinent set of counterparties. ▪ At the first level within TMS environment a named market observable CDS (credit default swap) curve should be tagged. ▪ If preceding is not possible, based on counterparty's industry sector mapping proxy and applicable credit rating's pertinent credit spread should be obtained on an ongoing basis.			

		Industry / sector rating-based spreads and named CDS based spreads	User should be able to configure the spread in case a proxy is being used.			
		Industry / sector rating-based spreads and named CDS based spreads	TMS should provide for a workflow to capture changes in the counterparty ratings from the chosen market data source system.			
		Support for current exposure method (CEM) for CVA computation	TMS should support computation of credit valuation adjustment (CVA) based on the tenored credit conversion factors (CCFs) for the IR and FX asset classes as provided by the regulator.			
		PFE / CVA / DVA	System should be able to calculate the following measures as part of its counterparty credit risk measures under the standardized / advanced simulation-based approaches: ▪ Potential future exposure i.e. the peak exposure arising in case of an OTC derivative trade ▪ Credit valuation adjustment i.e. market value of counterparty credit risk. ▪ Debt valuation adjustment i.e. adjustment made to liabilities of self.			

		Modelling techniques	TMS should use collateral information for calculation of CVA & DVA. The effect of available collateral and type of collateral should be considered during the calculation of CVA & DVA (under standardized / advanced simulation-based approaches).			
		Unilateral and Bilateral	System should be flexible to calculate both unilateral and bilateral CVA.			
		Bilateral netting of exposure (one to one)	▪ TMS should allow for bilateral netting (against a counterparty) of credit exposures covered by a bilateral netting agreement.▪ Based on the defined netting rule set, TMS should provide a net exposure figure (could be more than one figure if only particular types of product exposures can be netted against each other) basis which CVA / DVA assessment is going to be made.			
		CCR approaches	TMS should support standardized / advanced approaches for counterparty credit risk measurement.			
		Products to be covered under the CCR approaches	TMS should support counterparty credit risk (CCR) modeling for all the products wherein CCR comes into play e.g. repo / reverse repo, securities borrowing and lending (SBL), securities financing transactions (SFT) and comprehensive set of over the counter (OTC) derivatives.			
		Scenario analysis	TMS should have the capability to generate a CCR profile for an envisaged trade (FO perspective) as well as for an outstanding trade (MO perspective) over the trade longevity period (it requires Monte Carlo based simulation of the position).			

32	**Limit management and Setup**	Dimensions of limit management / monitoring	TMS should facilitate the limits to be managed / monitored along the following dimensions (non-exhaustive list): ▪ Bank wide ▪ Dealer level ▪ Currency level ▪ Trade level ▪ Counterparty level ▪ Product level ▪ Tenor level ▪ Country level ▪ Intraday and overnight ▪ Real Time valuation and Rate scans as per FIMMDA and regulatory guidelines			
		Limit framework	The Limit framework should be granular such that each type of limit can be provided to various desks/ dealers as decided by the Bank.			
		Intraday and EoD	TMS should facilitate different types of intraday and end of day (EoD) limit monitoring: ▪ Intraday profit / loss. ▪ Intraday and EoD peak exposure ▪ EoD P&L - Bank wide / dealer level / currency level for comprehensive set of products.			
		Limit monitoring	Dealer should be able to view limit utilization / breach while the trade is being booked.			
		Limit monitoring	TMS should allow the dealer to acknowledge by means of a comment that the dealer has viewed the limit status, especially if any of the limit is getting breached.			
		Warning Vs actual limit	TMS should be able to define a warning level for all the limits. This warning level should be configurable and could be different for different type of limits.			

		Warning Vs actual limit	TMS should provide for soft / hard limit thresholds when the warning level for the limit is being breached but it should not lead to dealer being inhibited from entering a new position or being made to unwind an existing position or seek a mandatory approval for position initiation / continuance.			
		Warning Vs actual limit	In the online dashboard, for both mid office user and dealer the warning level breach should be identified separately.			
		Soft Vs Hard limit	When the hard exposure-based limit is being breached, TMS should lead to dealer being inhibited from entering a new position or being made to unwind an existing position or seek a mandatory approval for position initiation / continuance.			
		Soft Vs Hard limit	In case of hard limit breach and system not allowing to book the trade, TMS should support sending emails to the pre-defined set of people especially in case of deals already executed in other dealing platforms.			
		Breach authorization	Facility to authorize limit violations based on the approval matrix in place at the Bank.			

		Breach authorization	The approval matrix should be configurable based on the following aspects - ▪ Breach extent - There could be different approvers set depending on the extent of limit breach (e.g., Approver for a 10% breach may be different from approver for 25% breach) ▪ Type of limit - The approval Matrix would be configurable depending on the type of limits. Exposure based limits may have different approval workflow compared to risk-based limit. ▪ Type of product - The approval matrix may be different depending on the product type.			
		Breach authorization	Multiple step approval workflow should be configurable. The approval process could be a 2 step / 3 step process or more depending on the breach.			
		Breach authorization	TMS should generate exception reports (inter alia number of breaches as well as time taken for redressal) for limit violations. The authorization procedure should be pre-defined in the TMS.			
		Audit trail	The entire process of limit setting and breach authorization should get captured as part of audit trail.			
		Limit utilization	TMS should give live updates to the dealer as well as to the mid office user on the limit utilization.			
		Limit utilization	User should be able to configure the trigger level, at which user intervention will be required depending on the utilization level of the limits.			
		Limit utilization	System should be able to generate limit utilization reports on demand and at end of day basis.			
		Limit utilization	Access to view and manage limit utilization should be configurable through front end.			

		Limit utilization - Drill down	Limit utilization reports should be available to be viewed on screen and a drill down should be possible where user can drill down and view the source of the utilization up to trade level.			
		Reservation	TMS should allow users to reserve a limit for a pre-configured time frame. The time frame should be defined by mid office and user can reserve the limit maximum up to that timeframe.			
		Reservation	The limit should be either utilized or freed within the timeframe.			
		Reservation	Other users and mid office users should be able to see the reservation.			
		Blockage	The mid office user / senior traders should have the authority to block limits temporarily.			
		Blockage	The authority for limit blocking should be configurable and there should a validation process for the same.			
		Limit re-allocation	System to provide a facility to transfer a limit for a prescribed period of time to a different product.			
		Limit re-allocation	TMS should allow for temporary transfer of exposure-based limits between different dealers / desks / any other but for same type of limits only.			
		Limit re-allocation	The user should be able to prescribe the time period for the reallocation. Once the defined period for which limit has been reallocated gets over, the desk / dealer level limits should restore to their original level.			
		Limit re-allocation	TMS should support defining the reallocation process and it should be available as part of audit trail.			
		Limit revision	Limit revision can be done only by authorized user, and it should have configurable validation process.			

		Limit update	TMS should be able to update limit exposures on a real time basis.			
		Portfolio level monitoring	TMS should be able to view limits for user defined portfolios on a real time basis.			
		Risk Monitoring	Common Risk/monitoring dashboard in Mid Office along with Front Office along with email alerts in case of any breach and threshold limits			
33	**Exposure based limit management**	Online limit update, tracking & monitoring	TMS should be able to monitor exposure-based limits such as (non-exhaustive list): ▪ Counterparty limits ▪ Pre-settlement limits ▪ Settlement limits ▪ Compliance limits (Deal size and trader mandates) ▪ Country limits ▪ Dealer open position limit ▪ Product level limit ▪ Loan Equivalent Risk (LER) limit ▪ PFE limit ▪ Gap limits ▪ Issuer limits ▪ Investment limits ▪ MM deposit limit ▪ Tenor based limit ▪ MM placement limit ▪ Broker limits ▪ Rating limit			
		Counterparty limits	TMS should have functionality to set both settlement and pre-settlement limits on counterparties OTC traded FX products.			
		Counterparty limits	TMS should monitor counterparty wise settlement and pre-settlement limits on near real time basis.			
		Counterparty limits	TMS should allow the user to define counterparty limit structure within the TMS architecture.			

		Counterparty limits	The counterparty limits can be defined with hierarchy i.e. overall counterparty limits can be allocated to different products. Sum of the limits can be greater than the limit at the overall level.			
		Counterparty limits	TMS should have facility to define aggregation criteria for different products including all types of OTC traded FX / IR derivative products and money market products (Repo / SLB / SFT) while accounting for permissible bilateral netting.			
		Counterparty limits	TMS should have functionality to calculate standardized / advanced PFE based exposure. It should have capability to use credit conversion factor matrix as available from the regulator.			
		Counterparty limits	Counterparty limits can be aggregated at individual counterparty level as well as counterparty group level. System should be capable of defining multi layered counterparty hierarchy. System should have capability to tag the counterparties to a group and then monitor both the limits.			
		Counterparty limits	TMS should support defining the counterparty limits for treasury products / exposures in a dedicated manner (i.e. to say non-treasury counterparty limits will remain outside the purview of TMS and will be separately monitored).			
		Counterparty limits	TMS should track the counterparty limit at absolute notional level and at LER level as well.			
		Country limits	TMS should have the ability to identify country exposure based on the counterparty. The details need to be captured as master data.			
		Country limits	Country wise limits should be possible to set and monitor in TMS.			

		Country limits	While monitoring this limit, TMS should consider all different type of in-scope cash / derivative exposures for treasury.			
		Country limits	For aggregation of country wise exposure, methodology similar to counterparty exposure calculation should be applicable.			
		Aggregate treasury gap limits	TMS should be able to set and monitor aggregate gap limit and individual gap limits.			
		Aggregate treasury gap limits	TMS should have the functionality to monitor currency-wise aggregate position.			
		Individual treasury gap limits	TMS should have the functionality to monitor currency-wise and tenor-wise aggregate position.			
		Treasury Net Open Position (NOP) limit	TMS should have ability to set and monitor treasury intraday open position limit and EoD NOP limit.			
		Treasury Net Open Position (NOP) limit	TMS should have the functionality to monitor aggregate intraday position for all currencies taken together.			
		Treasury Net Open Position (NOP) limit	TMS should be flexible to adopt a Bank defined methodology for calculating intraday and overnight open positions. It can be on a gross basis or on a net basis.			
		Treasury Net Open Position (NOP) limit	TMS should have ability to set and monitor open / outstanding positions on a counterparty level.			

		Treasury Net Open Position (NOP) limit	TMS should monitor the open position separately for all operating currencies and aggregate to functional currency. TMS should give the flexibility to define functional currency separate from the base currency. Also, it should give flexibility to monitor individual currency wise limits as well as converted to functional currency.			
		Treasury Net Open Position (NOP) limit	TMS should compute the net outstanding position in each currency in all treasury verticals / transactions / categories like spot, forward, swap, other FX derivatives, FCY deposits and the interest accrued thereon. Such a computation should include interest accrued on all FX products.			
		Treasury Net Open Position (NOP) limit	TMS should also compute the aggregate of the Present Value (PV) after discounting the above-mentioned position with appropriate currency yield curve, system should also support computation of interpolated tenor point yields.			
		All FX positions	TMS should monitor treasury FX positions at Bank as well as folder level and any breach should be viewable by means of reports to the relevant stakeholders.			
		Treasury gap limits (Liquidity mismatch)	TMS should be able to monitor asset – liability gap limits for treasury products.			
		Treasury gap limits (Liquidity mismatch)	TMS should be configurable to set the tenors (time buckets) for monitoring the gap limits for treasury products.			
		Treasury gap limits (Liquidity mismatch)	The gap limits should be set currency wise as well as in the base currency. The monitoring also should happen accordingly for treasury products.			

		Limit monitoring frequency	TMS should support real time monitoring of the comprehensive set of exposure-based limits.			
		Limit monitoring frequency	TMS should facilitate assessment of exposure-based limits on an EoD basis post revaluation.			
		Trend analysis	TMS should support performing trend analysis of limit utilization across the comprehensive set of exposure-based limits.			
		Trend analysis	Trend analysis should capture the intra-day peak levels of utilization and not just EoD level of limit utilization.			
		Trend analysis	Through its innate analytical capability TMS should clearly filter out the exposure-based limits that are consistently remaining extremely underutilized and on the other hand are getting breached on a regular basis.			
		LER Limit	TMS should support configuration and monitoring of LER limits.			
		Large exposure limit	TMS should support configuration and monitoring of large exposure regulatory limits.			
		Issuer limits	TMS should allow the user to put limits on the issuer of the securities to manage concentration / issuer risk.			
		Issuer limits	Multiple issuances from a single issuer should be clubbed together for monitoring of this limit.			
		Investment limits	TMS should allow the user to set investment limits at different levels. The flexibility to set it on different aggregation point should be provided. The aggregation points could be individual security, portfolio wise, sector wise, tenor wise, rating wise, etc.			

		MM deposit / placement limit	TMS should have the ability to put limit on money market deposits and placements.			
34	**Market risk-based limit management**	Online limit update, tracking & monitoring	TMS should be able to monitor market risk-based limits such as (non-exhaustive list): ▪ PV01 / CS01 (aggregate level) limits ▪ PV01 / CS01 tenored limits ▪ Stop loss limit ▪ Take profit limit ▪ Delta limits ▪ Value at risk (VaR) limits ▪ Macaulay duration and Modified duration limits ▪ Greek based limits Detailed limits to be configured in TMS will be finalized during the implementation.			
		Rate Scan	TMS should have the functionality to monitor rate scan-based thresholds on a real time basis.			
		Rate Scan	Real time market rates must be fetched from the chosen market data source system and compared with deal rates. The difference between the rates must be within the permissible range as approved by the Bank's internal policy.			
		PV01 limits	PV01 limits (for FX products beyond spot maturity) should be monitored both on an aggregate level as well as tenor wise.			
		PV01 limits	It should be monitored at a trade level as well as portfolio / sub-portfolio level.			

		Stop Loss limit	TMS should have the functionality where user can define stop loss limit- ▪ Daily stop loss limits ▪ Cumulative stop loss limits ▪ WTD (Week to date) stop loss limit ▪ MTD (Month to date) stop loss limit ▪ YTD (Year to date) stop loss limit ▪ Between any two custom dates			
		Stop Loss limit	TMS should monitor stop loss limit on a real time basis and the user should be able to view any breaches by means of a report.			
		Stop Loss / Take Profit limit	TMS should compute the product category-wise net loss / profit.			
		VaR based limits	In case of a limit breach a detail drill down analysis to break down VaR into components as well as positions will be required.			
		Treasury FX VaR	TMS should calculate VaR at treasury FX portfolio level covering whole bunch of FX positions residing within the TMS.			
		Frequency of monitoring for market risk-based limits	TMS should support intraday monitoring of the comprehensive set of market risk-based limits. Besides TMS should facilitate assessment of market risk-based limits on an EoD basis.			
		Modified duration limits	TMS should be able to set and monitor individual trade as well as portfolio / sub-portfolio level modified duration limit.			

		Greek based limits	TMS should have ability to set and monitor the following Greek based limits on option positions: ▪ Delta limit ▪ Gamma limit ▪ Vega limit ▪ Rho limit ▪ Theta limit ▪ Vanna limit			
35	**Collateral Setup**	Tagging of contracts covered by counterparty specific CSA	TMS should support tagging of the credit support annex (CSA) eligible OTC contracts at the portfolio/ counterparty/ deal level.			
		Tagging of contracts covered by counterparty specific CSA	TMS should support defining unique identifiers for the CSAs so that the specific contracts tagged to a CSA can be handled in line with the CSA specific requirements.			
		Tagging of contracts covered by counterparty specific CSA	TMS should facilitate having an aggregated view of existing contracts that are covered by a CSA with a counterparty.			
		Eligible counterparties	TMS should allow the counterparty only from the counterparty master, which may be getting updated within the TMS.			
		Central counterparties / Exchanges	TMS should also recognize central counterparties / exchanges as eligible counterparties.			
		Central counterparties / Exchanges	TMS should have flexibility to configure central counterparties / exchanges as counterparties and treatment of collateral / margin			

			management will be different with those.			
		Central counterparties / Exchanges	TMS should be able to manage the margin process for CCPs and Exchanges and should be flexible enough to configure their specifications.			
		Central counterparties / Exchanges	Specification such as level of initial margin, variation margin, haircuts etc. should be defined at portfolio / deal for CCPs/ Exchanges.			
		Setting up the initial collateral workflow at counterparty level	TMS should support different types of collaterals such as cash and sovereign fixed income securities.			
		Setting up the initial collateral workflow at counterparty level	TMS should support in capturing permissible collateral type for a tagged CSA (e.g., cash and sovereign fixed income securities) so that only permissible type of collateral gets exchanged going forward.			
		Valuation set-up	TMS should have capability to define different valuation models for valuation of non-cash collaterals.			
		Valuation set-up	TMS should allow user to input the valuation or upload in case they want to do the valuation outside the TMS.			
36	**Margin Calls/Margin Management**	Handling of Margin	TMS should support capture of initial margin and subsequently computation of variation margin for all counterparties based on either CSA or the rules defined by the Bank (in case of CCP).			
		Handling of Margin	At CSA level, the TMS should capture the threshold level up to which a margin exchange won't get triggered between the Bank and the counterparty.			

		Assessment of margin	TMS should support setting up the CSA level margin computation and raise system generated report when the threshold level gets breached.			
		Assessment of margin	TMS should support setting up CSA level periodic reports so that in non-volatile periods variation margin level across CSAs can be adequately tracked, on the other hand during volatile periods the TMS should support generation of CSA level variation margin reports on ad-hoc basis.			
		Need for multiple market data snapping	TMS should support taking market data snappings for different financial market time zone's EoDs as the leading market makers (i.e. CSA counterparty) might be based in different time zones.			
		Need for multiple market data snapping	TMS should be able to perform (if configured) the MTM valuation of the contracts tagged to a CSA basis the mapped counterpart's time zone's EoD market data snapping to avert the possibility of MTM valuation differences arising because of different market data being used by the Bank and the counterpart.			
		MTM valuation in line with leading market practices	TMS should support the MTM valuation of the contracts underlying to a CSA in line with as of date leading market (including regulatory guidelines) practices among the market makers			
		MTM valuation in line with leading market practices	TMS should be capable of handling IR curve setup (risk free curve, swap curve, cross currency basis etc.), implied volatility for options computation and interpolation techniques in line with the valuation methodology related aspects as mutually discussed and agreed with the counterparties.			

		Link between MTM variation to margin call triggering	TMS should have a preconfigured setup basis which an explicit linkage can be established between the variation in the level of MTM and the resultant level margin call that is going to get triggered.			
		Link between MTM variation to margin call triggering	To account for the parametric nature of the transformation between MTM variation to margin calls, the TMS should support parameter driven computation of the margin call amount as opposed to any hard coded approach being used.			
		Interest calculation	TMS should be able to calculate the interest receivable / payable on the cash collateral paid / received to / from counterparty.			
		Interest calculation	TMS should have the facility to apply different interest rates (Fixed / benchmark based floating) for calculation of interest amounts. The same should get captured while capturing the CSA details.			
		Interest calculation	Margin interest should get adjusted from the margin exchanges but should be recognized and reported separately.			
		Contract settlement	At the end of contract settlement, the margin accounts should also be settled. The settlement amount should be net of the margin amount.			
		Contract settlement	Appropriate GL should reflect the transfer from margin account to the contract account at the time of settlement.			
37	**Master Management**	Counterparty / Company master requirements	Counterparty name - TMS should perform data validation and prevent creation of entity with same name. Unique identification code for each counterparty - TMS should generate a unique code for each entity. Automation in master creation based on unique ISIN Code likewise in case of counterparty using unique number.			

		Counterparty / Company master requirements	Sector – TMS should have a configurable list of sectors and sub-sectors.			
		Counterparty / Company master requirements	TMS should have a functionality to capture address and communication details of various counterparties and entities.			
		Counterparty / Company master requirements	Non-Performing Investment (NPI) tagging – TMS should have the feature of tagging investments / securities as NPI and functionality to generate report for investments / securities marked as NPI and should support for auto upgradation and downgradation as per regulatory norms TMS should prohibit the dealer from entering a trade with a counterparty tagged as NPI			
		Holiday master	TMS should have the capability to maintain currency-wise holiday master. This holiday master may be at product level, asset class level, geography level, etc.			
		Security master requirements	TMS to have functionality to capture and display coupon till Eight decimal points.			
		Security master requirements	Credit rating - TMS should support capture and maintenance of credit rating of securities. (Internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			

		Security master requirements	Credit enhancement - The system should provide a field to capture the credit enhanced rating which would be different than the normal rating and a description field.			
		Security master requirements	Holiday convention - In case of interest event and redemption event, the treasury system should have the functionality of holiday convention for realization of coupon & redemption event on following or preceding day. Hence, separate convention identification required for coupon event and redemption event.			
		Security master requirements	Interest calculation / pay (holiday) convention - TMS should include option for following, preceding and none. (If following / preceding option is selected, this will impact scheduled cash flow dates and accordingly amount will also get changed).			
		Security master requirements	Interest frequency - TMS should support options for monthly, quarterly, semi-annual, annual interest payment frequency.			
		Security master requirements	Interest type - TMS should support interest types such as fixed, floating, simple, compounding, etc and should suppor first small/last small coupons for proper cash flows			
		Security master requirements	Day count conventions - TMS should support the following day count conventions at the minimum: - Act / Act - Act / 365 - Act / 360 - 30 / 365 - 30 / 360 (European as well as US convention)			

		Security master requirements	Odd coupon dates – TMS should support bond interest schedule start date / end date / in-between coupon dates with odd date / periods.			
		Security master requirements	Default interest rate – TMS should include an option to capture additional interest rate in the event of default in payment of interest / principal.			
		Security master requirements	Bond type – TMS should support regular / partial or irregular redemption.			
		Security master requirements	TMS should support coupon reset process including rate, spread, effective date, interest rate cap and floors etc. Also, TMS should have mechanism by way of report for tracking security's future coupon reset dates.			
		Security master requirements	TMS should allow the user to update the coupon on reset date and accordingly the cash flow for the relevant coupon payment cycle.			
		Security master requirements	Coupon step up and step down - TMS should have the capability to maintain fixed and scheduled increase and decrease in coupon which is already known. TMS should generate a report for tracking of such events.			
		Security master requirements	TMS should recognize coupon step up and step down on account of rating migration. The cash flow impact either will be immediate from the date of rating change or from the next coupon date.			
		Security master requirements	Listed / unlisted – TMS should mention whether the security is listed or unlisted. If listed, TMS should display the name of exchange.			
		Security master requirements	ISIN FV – TMS should capture the actual ISIN face value.			

		Security master requirements	Record date – TMS should have the option to capture the record date period (For e.g., 3, 7, 15 or 30 days - These days can be either business days or calendar days.) prior to each coupon payment date or redemption date or each Call / Put Option date.TMS should also recognize this record date period in the event of sale trade and purchase trade during shut period and accordingly system coupon event, security accrual and accounting to be handled accordingly by the system.			
		Security master requirements	Call / Put option – TMS should have the capability to capture more than one call / put option dates. It should also have an option to capture call / put notification time (days) and price (Par/ Premium/ Discount). TMS should also provide report for tracking such call/ put option dates on the basis on notification time (days).			
		Security master requirements	Redemption value – TMS should have the ability to capture whether the redemption of principal is full or partial as well as whether the redemption is at par/ at premium/ at discount.			
		Security master requirements	TMS should have the ability for manual cash flow update. Accordingly, system coupon event, security accrual and accounting to be handled by the TMS.			
		Security master requirements	TMS should support the upload of Information Memorandum (IM) or term sheet in the system. Once security master is created in the TMS, the user should be able to upload and save the IM/ term sheet in the system in PDF format against the specific security (MB size capping can be fixed).			

		Certificate of Deposit (CD)	Security nomenclature - TMS should have configurable and consistent concatenation/ nomenclature of security details (For e.g., 0.00% + issuer name + maturity date).			
		Certificate of Deposit (CD)	Holiday convention - If security maturity date falls on holiday, the system should realize the principal cash flow on preceding working day. For balance accretion amount should be booked on day before preceding day making Weighted Average Cost (WAC) as 100.			
		Certificate of Deposit (CD)	ISIN FV - TMS should capture the actual ISIN FV.			
		Certificate of Deposit (CD)	Issuance type - TMS should have an option to capture whether CDs have been issued on discounted or floating rate basis.			
		Certificate of Deposit (CD)	Floating CDs - In case of CDs that have been issued on floating rate basis, TMS should have relevant fields to capture details such as benchmark, spread / mark-up, rate reset frequency, whether CDs have been issued at par, etc.			
		Certificate of Deposit (CD)	Credit rating - TMS should support capture and maintenance of credit rating of securities. (Internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			
		Certificate of Deposit (CD)	NPI tagging - TMS should have the feature of tagging investments / securities as NPI and functionality to generate report for investments / securities marked as NPI.			
		Commercial Paper (CP)	Security nomenclature - TMS should have configurable and consistent concatenation/ nomenclature of security details (For e.g., 0.00% + issuer name + maturity date).			

		Commercial Paper (CP)	Holiday convention - TMS to have the functionality if security maturity date falls on holiday, system should realize the principal cash flow on preceding working day. For balance accretion amount should be booked on day before preceding day making Weighted Average Cost (WAC) as 100.			
		Commercial Paper (CP)	ISIN FV - TMS should capture the actual ISIN FV.			
		Commercial Paper (CP)	Issuance type - TMS should have an option to capture whether CDs have been issued on discounted or floating rate basis.			
		Commercial Paper (CP)	Credit rating - TMS should support capture and maintenance of credit rating of securities. (Internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			
		Commercial Paper (CP)	NPI tagging - TMS should have the feature of tagging investments / securities as NPI and functionality to generate report for investments / securities marked as NPI.			
		Commercial Paper (CP)	Listed / unlisted - TMS should mention whether the security is listed or unlisted. If listed, TMS should display the name of exchange.			
		Discounted instruments requirements - Treasury Bills / Discounted Cash Management Bills	Security nomenclature - TMS should have configurable and consistent concatenation of security details (For e.g. number of days + whether it is a treasury bill or discounted cash management bill + maturity date). E.g, 91 DTB, 182 DTB and 364 DTB etc.			

		Discounted instruments requirements - Treasury Bills / Discounted Cash Management Bills	Holiday convention – TMS to have the functionality if security maturity date falls on holiday, system should realize the principal cash flow on preceding working day. For balance accretion amount should be booked on day before preceding day making Weighted Average Cost (WAC) as 100.			
		Discounted instruments requirements - Treasury Bills / Discounted Cash Management Bills	ISIN FV – TMS should capture the actual ISIN FV.			
		Discounted instruments requirements - Treasury Bills / Discounted Cash Management Bills	Issuance type – TMS should capture the issuance type for treasury bills and discounted cash management bills as discounted.			

		Discounted instruments requirements - Treasury Bills / Discounted Cash Management Bills	Credit rating - TMS should support capture and maintenance of credit rating of securities. (internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			
		Equity	The security nomenclature for the equity instrument should be configurable and should be auto computed.			
		Equity	Exchange code - TMS should have the ability to capture the exchange code.			
		Equity	ISIN FV - TMS should have the ability to capture the face value based on ISIN.			
		Equity	Paid up value - TMS should be able to capture the paid-up value of each equity instrument as well as whether the equity instrument is fully or partly paid up.			
		Equity	Listed / unlisted - TMS should mention whether the security is listed or unlisted. If listed, TMS should display the name of exchange.			
		Equity	NPI tagging - TMS should have the feature of tagging investments / securities as NPI and functionality to generate report for investments / securities marked as NPI.			
		Equity	Corporate action events -TMS should have the ability to capture corporate action events such as announcement date, ex-date, record date, event date for bonus, dividend, stock split, merger, amalgamation, etc.			
		Mutual Funds - Debt / Equity / ETF	Scheme name - TMS should provide the functionality to input the scheme name manually.			

		Mutual Funds - Debt / Equity / ETF	Scheme code - TMS should be able to capture the Scheme Code.			
		Mutual Funds - Debt / Equity / ETF	Folio No. - TMS should have the ability to capture the Folio Number. Folio no. should support special characters such as -, /, \, etc.			
		Mutual Funds - Debt / Equity / ETF	Scheme Type - TMS should have the ability to capture the scheme type, i.e., open ended / close ended / ETF.			
		Mutual Funds - Debt / Equity / ETF	ISIN FV - TMS should capture the ISIN Face Value of the unit.			
		Mutual Funds - Debt / Equity / ETF	Plan type - TMS should provide the functionality to capture the type of plan selected, i.e., Growth / Dividend Reinvestment / Dividend Pay Out / Bonus etc.			
		Mutual Funds - Debt / Equity / ETF	Type - TMS should have the ability to capture the mutual fund type i.e., direct mutual fund or regular mutual fund.			
		Mutual Funds - Debt / Equity / ETF	Orientation - TMS should provide the functionality to capture the orientation of the mutual fund plan i.e., debt or equity.			
		Mutual Funds - Debt / Equity / ETF	Credit rating - TMS should support capture and maintenance of credit rating of securities. (Internal as well as external) TMS should also maintain the history of the credit ratings that were associated with the securities.			

		Mutual Funds - Debt / Equity / ETF	Quantity decimal - The system should provide the flexibility to set the number of decimal places for required for presentation of units balance Up-to 2 decimal or 3 decimals i.e. Amount Invested / NAV = Units Balance).			
		Mutual Funds - Debt / Equity / ETF	NPI classification - TMS should have the feature of tagging investments / securities as NPI and functionality to generate report for investments / securities marked as NPI.			
		Government Securities and other approved securities	Holiday convention - In case of interest event and redemption event, the TMS should have the functionality of holiday convention for realization of coupon & redemption event on following or preceding day. Hence, separate convention identification required for coupon event and redemption event.			
		Government Securities and other approved securities	Interest frequency - TMS should support options for monthly, quarterly, semi-annual, annual interest payment frequency.			
		Government Securities and other approved securities	Interest type - TMS should support interest types such as fixed, floating, simple, compounding, etc.			
		Government Securities and other approved securities	Interest convention - TMS should support the following day count conventions at the minimum:- Act / Act- Act / 365- Act / 360 - 30 / 365 - 30 / 360 (European as well as US convention)			

		Government Securities and other approved securities	ISIN FV - TMS should capture the actual ISIN FV.			
		Government Securities and other approved securities	Benchmark - TMS should have the ability to capture the benchmark for the securities in the case of Floating rate bond.			
		Government Securities and other approved securities	Reset frequency – In the case of floating rate securities, the TMS should have the ability to capture the reset frequency. Also, system should have mechanism by way of report for tracking security's future coupon reset dates.			
		Master requirements	Maker checker - TMS should have maker checker functionality for any addition / modifications / deletions being made in the master data of the system.			
38	**Other requirements of Deal processing / validation / confirmation**	Product and Functionality coverage	Back-office module of the TMS should support and have comprehensive set of pre-built functionalities for end-to-end processing /mappinng of all the products defined as part of the product/solution.			
		Back-office hierarchy	The TMS should be able to replicate the back-office hierarchy at the Bank. The users will get access to the respective functions / products as defined by the admin user.			
		Workspace	The TMS should provide a separate, configurable workspace for back-office users. The workspace should be configurable depending on the role of the user.			
		Workspace	There should not be a time gap between the trade appearing at the back-office workspace and trade booking by the front office.			

		Workspace	The trades in the workspace should get updated with the status as and when a step is performed by the back-office user.			
		Workspace	A list of pending tasks should also appear in the workspace with a link for back-office user to directly go to the pending task.			
		Verification process	The TMS should give user the flexibility to perform deal details matching based on platform generated (e.g., SWIFT) confirmation received by the bank. i.e., auto deal matching via SWIFT			
		Maker checker	The TMS should allow for multi-level maker checker facility for deal validation. E.g., 2 eyes / 4 eyes / 6 eyes etc. - i.e., one person (maker) / two people (checker) / three people (approver). To be finalized at the time of configuration stage.			
		Verification process	In case any mandatory information is not complete the TMS should not allow the deal to be processed further.			
		Verification process	It should be possible to configure a view access to the back-office user for them to verify whether the limit approval process (in case of breaches) has been completed and all approvals are in place before the trade can be further processed.			
		Discrepancy resolution	In case of any discrepancies are observed, the back-office user should have the right to send the deal back to front office.			
		Discrepancy resolution	The back-office user should be able to specify the reason for their sending the deal back.			
		Discrepancy resolution	TMS should be able to generate discrepancy report and track the issues raised by the back office. The workflow should be configurable to track and close these issues.			

		Discrepancy resolution	Discrepancy resolution can be iterative process if required, the process will complete only once the back-office user let the deal proceed and confirm.			
		Bulk authorization	TMS should allow bulk authorization of deals			
		Deal deferral	In case there is a deferral, there should be a repository that monitors all the deferrals (i.e., deals that cannot be confirmed the same day) and functionality to fetch deferrals report.			
		Deal amendment	In case of deal amendment, if the amendment is done before the deal verification or any further processing is performed, normal verification process needs to be performed.			
		Deal amendment	In case of deal amendment when the deal is already verified / confirmed, a flag should be attached with the deal when it reappears for verification / confirmation. Once the deal is validated by BO user, the FO user cannot amend/ modify the deal unless the deal is pushed back by BO user to FO queue. Deals pushed back should folow the escalation matrix/approval.			
		Deal amendment	TMS should be able to handle the accounting entries for deal amendment, if required. TMS should be able to reverse entries or modify to reflect the amended deals. It should update the positions, limits, P&L, etc., as applicable.			
		Deal amendment	Any amendment should be recorded as part of audit trail.			

		Standard procedure	TMS should adopt standard confirmation procedures for products and their variants. This should be dependent on the market standard, counterparty preferences and product characteristics. (E.g., SWIFT convention, etc.)			
		Pending confirmation report	The validation status of the deal should appear as part of the trade list. Also, in case of pending confirmation, the same should appear in the to-do list of the respective user and TMS should also have functionality to fetch unconfirmed trades report.			
		Mail confirmation messages for counterparties	TMS should have the ability to print / e-mail the deal confirmation messages.			
		Provision for paper/ PDF confirmation	Beside SWIFT enabled automated confirmation mechanism, the TMS should support the workflow for paper/ PDF confirmation.			
		Pending confirmations beyond stipulated time threshold	In case a transaction remains unconfirmed by the counterparty beyond a specified time threshold, the TMS should have the capability to generate exception report for such unconfirmed transactions.			
		Confirmation matching	From a reconciliation perspective, TMS should support confirmation matching through various relevant SWIFT MT series for treasury.			
		Deal detail documentation post confirmation	TMS should have the capability to generate deal slips/ term sheet as per pre-specified product specific formats and capturing all the requisite aspects including sensitivity / scenario analysis related aspects.			

		Deal confirmation messages	TMS should include the Bank's logo in the deal confirmation messages sent to the counterparties.			
		Verification process	The TMS should give user the flexibility to perform deal details matching based on platform generated (e.g., NDS OM, NDS CALL, NDS TREP, F TRAC, C BRICS etc) . confirmation received by the bank. i.e., auto deal matching via SWIFT			
39	**Broking / payment / settlement**	Broker setup	TMS should have the capability to define multiple brokers across product types while accounting for the fact that a particular broker may be having more than one product tagged against it.			
		Brokerage rule	TMS should have the capability to define different brokerage rules for different products coupled with the fact that the % of brokerage may vary with increasing levels of transacted volume. TMS should provide a facility to provide a cap value of brokerage and zero brokerage.			
		Brokerage rule	The broking rules should be configurable and can change basis volume, frequency, product type, currency type etc. Hence the TMS should have the facility to set the broking rules.			
		Brokerage computation	TMS should support calculation of brokerage amount against each deal during processing of the deal. Likewise, the amount of brokerage at the portfolio level should as well be viewable at the time of deal validation.			
		Expenses	TMS should support capturing of any other charges, expense, Stamp Duty taxes on brokerage, etc. in the headings of the deal blotter.			

		Brokerage payment advise / report	TMS should have the capability to generate aggregated periodic brokerage payment reports for different brokers at asset class/ product level.			
		Payment advise reconciliation with broker's statement	TMS should have the capability to upload the brokerage statements received from different brokers (In system specific format). Post that the TMS should run a reconciliation between the broker's statement and the TMS generated brokerage payment advice.			
		Broker repository	TMS should have the capability to act as the single point of reference for the whole group of brokers associated with the Bank. Broker repository within the TMS is going to be updated on an ongoing basis.			
		Different types of back-office settlements	TMS should support settlement for all the in-scope products at the Bank's treasury. Besides TMS should support settlement for margin, collateral, Pledge/Lien and interest on collateral as well.			
		Settlement instruction	TMS should support automatically picking of settlement instructions and generate the payment with the default Standard Settlement Instructions (SSI) set up.			
		Settlement instruction repository	TMS should act as single point of reference for consolidated set of SSI with respect to the asset class.			
		Multiple settlement instructions	TMS should support defining multiple SSI for a counterparty.			
		SWIFT payment messages	TMS should support relevant category of confirmation messages for SWIFT and if any other payment message system as required by the bank.			

		SWIFT payment messages	TMS should be able to integrate with SWIFT to generate Ack and Nack at the time of payment settlement/ confirmation through SWIFT			
		Bilateral netted settlement against a banking counterpart	For all the confirmed interbank transactions getting settled on a particular day, TMS should allow for bilaterally netting (payment netting) amount to be settled (either a final debit or credit) with the banking counterpart (e.g., CLS) and accordingly relevant accounting entry should be passed.			
		Impending payments	TMS should have a separate view to monitor impending payments.			
		Impending payments	TMS should have a separate view in case of tasks that are due and not completed. The pending tasks should be listed in workstation/ report format.			
		Payment requests	If required, user should be able to set the payment request workflow where certain type of payments are made directly while for others there is an approval workflow.			
		Payment requests	TMS should be able to connect to SWIFT and any other payment gateway for receiving and making the payments.			
		Payment requests	TMS should support multi-level payment validation (maker checker) feature.			
		Trade wise MTM report	TMS should have the functionality to generate reports with different frequencies (daily, monthly, quarterly, etc.)			
		Netting	TMS should have the capability to perform payment netting with a counterparty based on certain identification criteria. Identification criteria to be communicated by the Bank at the time of configuration.			
		Netting	The system should have the provision to configure netting as time based or a manual trigger.			

			The system should have the provision of Reconciliation of investment with Different platforms and shadow accounts.			
			The system should have the provision of generating Profit loss and Balance Sheet			
40	**Nostro management and reconciliation**	Nostro fund management	TMS should have the capability to maintain all nostro / vostro mirror accounts with / of correspondent banks for each currency.Besides, the TMS should be capable of acting as repository of certain high-profile clients / vostro banks.			
		Nostro fund management	TMS should have the capability of accessing the nostro statements from the SWIFT directly.			
		Nostro fund management	TMS should be able to provide transaction entry screen to capture the fund flows in the respective currency nostro accounts.			
		Nostro fund management	TMS should be able to capture the provisional balances in the nostro accounts based on the report received and the transactions captured in the TMS for which cash flows are ascertained.			
		Nostro fund management	TMS should be able to track the deviation between the provisional and actual balances in the nostro accounts.			
		Nostro fund management	TMS should have the capability to consolidate currency-wise position of nostro balances. At least, the system should display treasury FX related aggregated flows at currency level.			
		Nostro fund management	TMS should have the capability to distinguish between amounts lying in nostro and amounts placed as deposits with the counter party banks.			

		Nostro fund managem ent	TMS should have the capability to create message to transfer balances from one nostro account to another in the same currency.			
		Nostro fund managem ent	TMS should have the capability to provide a fund flow statement for all currencies as on a particular day.TMS should be able to generate report with details of date/ time for credit of funds to vostro account & subsequent payment to beneficiary			
		Nostro fund managem ent	TMS should be able to generate a report of excess balances available in each currency nostro account after considering the reporting received by the branches.			
		Nostro fund reconcilia tion	TMS should be able to match the reported flows (through the system) with the actual entries reflecting the nostro accounts for the respective currency.			
		Nostro fund reconcilia tion	TMS should have the facility to upload nostro balances in electronic format and reconcile the nostro balances with the Bank's book balance.			
		Nostro fund reconcilia tion	TMS should have the capability to monitor limits laid down for nostro balances and generate reports for any such limit breaches on an intra-day basis.			
		Nostro fund reconcilia tion	TMS should provide for automated / manual matching of transactions as part of reconciliation while following one to one or one to many matching criteria.			
		Nostro fund reconcilia tion	TMS should allow for the back-office user to define the parameters basis which automated and/ or manual matching is going to be performed and capture extent of matching (% transaction) for partially matched transactions.			

		Nostro fund reconciliation	TMS has the capability to generate the report for unmatched entries in terms of transaction identifier, date / age wise entries and amount wise entries etc.			
		Nostro fund reconciliation	TMS should have the capability to show outstanding entries of each branch separately.			
		Nostro fund reconciliation	TMS should provide the facility to view the matched / unmatched entries and reason statement (for unmatched) at any point of time should be available for viewing purpose.			
		Nostro fund reconciliation	TMS should have functionality to generate nostro account entries so that nostro reconciliation can be adequately performed on ad-hoc basis.			
		Account replication	The nostro account and customer accounts are to be replicated from the core banking system (ICBS) at a pre-defined frequency. Facility to define alternate nostro account as per front office requirement and map it against the core banking account number.			
41	**Accounting setup and flow**	GL structure	TMS should have flexible GL structure and ability to customize it based on Banks existing GL structure.			
		GL structure	TMS should be able to align its GL structure, rename the GLs / Sub GLs according to the existing GL structure and naming conventions followed by the Bank.			
		GL structure	TMS should have the ability to maintain separate books of accounts based on customizable hierarchies i.e. branches, profit center etc. This would be used for P&L attribution.			

		GL structure	Customer IDs as defined in ICBS should be replicated in the TMS, it will ensure that at the time of treasury transaction settlement in the ICBS correct accounts / GL codes are being used for Debit / Credit.			
		GL handoff	TMS should have the ability to generate an output of all accounting entries for a user specified period.			
		GL set-up	The GL should be set-up to ensure that accounting entries for all treasury products covering their lifecycle should be possible.			
		Product parameter for accounting	TMS should have capability to book accounting entries (booking as well as reversal) for all comprehensive set of treasury front office products.			
		All accounting entries should have basic information against each transaction	The accounting entries should have following information tagged against each transaction: Transaction reference number; User reference number; Related account number; GL code; Transaction date; Value date; Transaction currency; FCY amount; LCY amount; GDU/Cost center Branch code Related Batch number Currency code LEI and Other MIS information.			
		Integration with CBS	TMS should generate and automatically flow the accounting entries to the CBS			
		Daily revaluation	TMS should generate accounting entries for daily revaluation using mark to market of positions daily for the products where daily revaluation is required.			

		Booking contingent entries	TMS should have the facility to define contingent entries across all treasury products.			
		Booking accrual / amortization	TMS should support booking accrual & amortization of interest / fee incomes / special interest across all treasury products.			
		Accounting schema	TMS should be able to provide configurable accounting schema module that allows to define any schema at the legal entity level and to provide a grouping mechanism to consolidate multiple schemas.			
		Product parameter for accounting	Facility to define accrual /amortization cycle (daily / monthly) in a parametric way.			
		Accounting narration	TMS should provide the flexibility to configure standard narrations along with accounting entries at product level.			
		Currency wise set-up	TMS should have flexibility of setting up in base currency as well as local currency.			
		Revaluation profit and loss	TMS should be able to segregate the overall P&L into spot and forward revaluation P&L.			
		Revaluation entries	TMS should be able to pass FX forward revaluation entries. TMS should be able to pass FX forward reversal revaluation entries (Daily).			
		Margin recognition	TMS should have functionality to segregate different margins (Branch, desk etc.) and calculate the P&L accordingly.			
		Realized / unrealized revaluation entries	TMS should be able to support booking of realized / unrealized revaluation entries.			

		FX yearly revaluation	TMS should be able to support the realization of yearly FX revaluation P&L. TMS should support parameter driven option for realization of yearly FX revaluation.			
		Cost adjustment	TMS should be able to take transaction costs and other user-defined costs as inputs and the same should be adjusted while calculating respective P&L. The adjustment should be done basis the allocation of the costs.			
		Generation of online accounting entries	TMS should have the ability to generate online accounting entries related to customer settlement for such transactions. The accrual and amortization entries for such transactions should be posted during the EoD process.			
		Accounting entries for deal modification and amendment	TMS should be able to cater to the requirements of deal modification and amendments. Appropriate adjustments should be made in case of deal cancellation and modification at different stages.			
		Accounting entries for deal modification and amendment	TMS should distinguish the effects on G/L in the current or prior period for cancelled / modified deals.			
		Realized and unrealized P&L	TMS should be able to segregate between realized and unrealized P&L for the reporting and accounting purposes.			

		Brokerage and margin	TMS should be able to generate accounting entries for brokerage payments and margin exchange. Segregation of positions (cash / securities) for the margin purpose, interest received / paid and adjustment to / from the margin account should be handled in the TMS.			
		Calculation Methods	TMS should be capable to generate accounting for deals on a weighted average method, FIFO, LIFO methods			
		Calculation Methods	TMS should be able to configure the different methods for different product types / portfolios.			
		Transfer of securities	TMS should be able to generate accounting entries in case the securities / positions are being transferred from one portfolio to another. It should be flexible with respect to the method to be used for accounting of such transfers (I.e. book value, market value, at cost etc.)			
		Accounting statements	TMS should generate a trial balance and P&L statement in excel and PDF format on daily basis			
		Collateral placed and reversal	TMS should provide a flexibility to pass contingent accounting entries for collateral placed and reversal. It should also incorporate for any further additional collateral placed, including its reversal.			
		Accounting entries	TMS should provide the flexibility to select the trade date vs settlement date accounting			
		Accounting entries	Final set of accounting entries to be configured at the time of configuration including narrations, trade/ settlement date accounting, etc.			

		Real time accounting	TMS should have the functionality of real time accounting in case the counterparty bank account is debited / credited for any payment. Accounting entries for cashflows in case of bonds and corporate actions in case of equities / MFs / ETFs should as well be passed on real time basis.			
			The system should be able to calculate amortization, interest accrual , Capital gain etc.			
42	**Accounting, IFRS and IndAS**	IFRS 9 compliant system	TMS should be compliant with IFRS 9 requirements for both banking book and trading books of the Bank.			
		Folder structure	TMS should have flexibility of defining the folder structure and set the rules such that any deal in that folder is given the same treatment.			
		Folder tagging	The folders can be classified as Amortized cost (AC), Fair Value through P&L (FVTPL) and Fair Value through OCI (FVTOCI) for investments. Additionally, it should also support accounting for the same as per IFRS - 9.			
		Classification type	TMS should be able to cover accounting related aspects for AC / FVOCI / FVPTL as below: • For investments classified as amortized cost, ECL should be recognized in the P&L account. • For investments classified as FVOCI, while gains and losses are recognized in OCI, any impairment losses should be recognized in the P&L account. • For investments classified as FVTPL, both gains/losses and impairment losses should be recognized in the P&L account. • All fourth coming regulations / direction w.r.t ECL/EIR/SICR/Amortized cost etc should be included .			

		Front office functionality	The dealer should be able to choose the folder in which they want to book the deal. This would be based on the trade type and business model.			
		SPPI and Business model test	In case the TMS is not able to perform SPPI and BM test, it should at least have the facility for the user to upload the documentation where the tests have been performed externally.			
		SPPI and Business model test	TMS should have the functionality for the mid office user to verify the tests performed / uploaded.			
		SPPI and Business model test	Both Front and Middle office should also be allowed to perform the test and recommend a different allocation depending on its finding and should be able to use those to verify if the folder allocation has been proper.			
		Import of PD / LGD / ECL calculation	TMS should be able to import the ECL / LGD / PD / Rating / Staging numbers and apply the same for the positions marked as AC, FVOCI and FVTPL.			
		Generation of accounting entries.	TMS needs to import and generate accounting entries. For example, from R-Code for retail and Moody's Credit Lens / Risk calc for corporate.			
		CVA / DVA adjustments	TMS should utilize the counterparty risk module to calculate CVA / DVA adjustments for the valuations of the instruments which are marked as FVTPL and FVTOCI.			
		CVA / DVA adjustments	TMS should have facility to configure whether CVA / DVA adjustment needs to be applied or not.			
		CVA / DVA adjustments	TMS should have the facility to configure whether bilateral or unilateral adjustments will be done and accordingly perform the same.			
		CVA / DVA adjustments	The adjustments should be done based on IFRS 13 requirements of fair valuations.			

		Disclosures	TMS should be able to provide the information related to the treasury products for disclosure requirements as per IFRS 9 and related disclosures in IFRS 7.			
		Disclosures	The disclosure information will include Valuation, Position details, Stage transition information, Fair valuation, Valuation adjustments, ECL calculation numbers etc.			
		Ind AS compliant system	TMS should be compliant with INDAS requirements for relevant accounting standard across the system. Should support ECL Impairment. EIR Framework. And Reconfiguration of Investment modules upon upgradation to new guidelines or accounting.			
43	**Reporting / Dashboard**	User need based dashboards	TMS should have the capability to define and maintain custom dashboards for respective users in line with their day-to-day business requirement.			
		Dashboard based limit monitoring	Dashboard within TMS should have the capability of displaying the results of limit monitoring and send alerts to designated recipients about limit utilization and breaches, if any, for both exposure and risk-based limits at folder level as well as bank level.			
		Market data updation in the dashboard	TMS should be able to capture real time market data as well as EoD market data			
		Position data updation in the dashboard	TMS should be able to capture the updated trade related position information on a real time basis and accordingly reflect the impact in terms of MTM / P&L / other comprehensive set of risk representations.			

		Slicing and dicing of data in the dashboard	TMS should have the ability to slice and dice position data with varying level of granularity up to the trade level from root cause analysis perspective, e.g., for the VaR backtesting exception table in the dashboard the user should be able to drill to the specific trade(s) that are leading to the exception(s).			
		Scenario analysis using the dashboard	TMS users should be able to perform the multi factor scenario analysis for a portfolio / set of trades from a FO / MO perspective for P&L and risk impact assessment given specific orientations of risk factors.			
		Tabular / graphical represent ation of results	TMS should have the flexibility to use tabular only or graphical only or both types of representation on the dashboard so that the end users can portray the output in line with their specific requirements.			
		Export of dashboard results / output	Any type of output as observable on the dashboard should be exportable to Text / Excel / Word and convertible to PDF for the Bank's MIS purposes, including real-time as well as based on yesterday’s EOD information.			
		Functional / technical training on the dashboard capabilitie s	TMS implementation team should provide functional / technical training to the Bank’s staff so that going forward the Bank’s internal team can carry out the requisite modifications on their own.			
		Full RBS module and Position of portfolio with risk parameter s	Risk based supervision points as required by regulator regarding inherent liquidity and market risk			

		Exposure	Sector wise and industry wise exposure report			
		Upgradation/ downgradation of externalratings	Sector wise and industry wise exposure report			
		Level 1, Level 2 and Level 3 as per the market rates available	Bank shall categorize its investment portfolio into three fair value hierarchies, viz., Level 1, Level 2, and Level 3 based on fair valuation. The details of the investment portfolio shall be disclosed in its Notes to Accounts of the financial statements as per templates specified in the Reserve Bank of India (Commercial Banks - Financial Statements: Presentation and Disclosures) Directions, 2025. These disclosure requirements shall become effective from the audited financial statements for the financial year ending March 31, 2026, onwards.			
44	**Report builder**	Type of data that can be used for report building	TMS should provide flexibility such that any type of data field be it static data / dynamic data / computed data / other results should be completely utilizable for report generation through the report builder. (Open report)			
		Range of reporting requirements & customization to be served	TMS should have the capability to generate the reports for different types of ongoing requirements and customization e.g., outstanding trades / counterparty monitoring / MTM / scenarios / exposure-based limits / risk-based limits / limit breaches etc.			
		Implementation of reports as specified in the Bank's BRD	TMS implementation team should configure the comprehensive set of standardized as well as custom reports as per format provided by the Bank.			

		Primary validation of the output under the full set of reports	TMS implementation team should at the first level validate the output of the comprehensive set of standardized / custom reports to ensure the adequacy of the system output getting captured in the reports.			
		Reporting generation frequency and filtering in line with user needs	TMS should have the flexibility to define the report generation frequency in line with user specific requirements e.g., real time / hourly / daily / weekly / monthly / quarterly. However, ad-hoc (intraday) report generation by the user should be permitted at any given date.TMS should have functionality to filter and save report selection criteria's set by the specific user.			
		Auto generation of reports as per the scheduler	TMS should have the capability to auto generate the pre-configured reports as per the specifications provided in the report generation scheduler.			
		Auto mailing of reports	TMS should have the capability of auto mailing the pre-configured set of reports to the specified group of recipients within the Bank's hierarchy.			
		Integration with 3rd party reporting tools	Report building tool as provided by the vendor under the TMS should be able to fully integrate with any 3rd party reporting tool that the Bank is using currently / intends to use going forward.			
		External data import and utilization in report generation	TMS should be able to firstly seamlessly import any kind of data from the Bank's CBS / data warehouse / other internal sources and accordingly leverage the imported data for the generation of the standardized / custom reports.			

45	**Specified Report/s to be configured**	Outstanding deals report (non-derivatives)	System should be able to generate report for money market, FX, fixed income, equity and others based on various parameters such as currency, product type, maturity dates, tenor, MTM (including accrual), sensitivity factors, deal amount, sovereign / credit spread curve referencing, counterparty, deal number, corporate client segmentation, folder etc. This will cover historical deals as well			
		Treasury cash flow report	Aggregated treasury cashflow report at deal level, position level, currency level, desk level, counterparty level, product level etc. including all future cashflows			
		Stop loss report (real time)	Historical report of stop loss providing information about stop loss between a configurable start and end date and revaluation date, providing details of the desk, dealer, trades, etc.			
		Card rates report	Card rates (Currency wise TTB/S, Bill Buy/Sell, Currency Buy/Sell) report reflecting historical intraday levels for the relevant reference period			
		Limits Utilization Report	Limits Utilization Report (Dealer, Counterparty, Product, Country and Bank level) (Should consider Interbank and Corporate client positions as well) and trend historical analysis on same. It should cover stop loss, pre-settlement limits, settlement limits, CEM, PFE limits and SA-CCR Limits			
		Limit allocation report	Audit trail for all changes in limit allocations			
		Brokerage report	TMS should be able to produce a report capturing the product wise business conducted with different brokers including product level brokerage rules, periodic brokerage paid, and payment reconciliation / settlement, etc.)			

		Customer profitability / Sales activity report	TMS should have the capability of generating a report capturing the FX customer profitability per deal executed by treasury sales on online basis. This should clearly mention the home branch and business owner of that customer for all deals quoted, booked by FO and processed by back office. And all those deals which were quoted by Treasury sales but booked and processed by the branch			
		Corporate client non-card transactions	TMS should capture the type of non-card transactions with maturity date, deal notional, relevant margins and P&L (Currency wise)			
		Dealer P&L report	Currency Level, Position Level, Product Level, corporate client segmentation P&L, folder level and consolidated P&L for both realized and unrealized			
		Fixing report (FX and IR fixings)	Report capturing FX spot fixings including NDFs and IR benchmark fixings for money market / bonds / derivative positions			
		Options expiry report	Report capturing expiry dates of IR / FX / Commodity options (both vanilla and exotics)			
		Outstanding deals report (Derivatives)	System should be able to generate report for IR / FX / Commodity derivatives of different types based on parameters such as currency, product type, maturity dates, deal amount, curve, counterparty, deal number, folder, tenor, MTM, sensitivity factor/ Greeks etc. This will cover historical deals as well			
		Trade event report	Report capturing the effect of partial unwind, deal amendment, and early termination in case of FX forwards and other FX / IR OTC derivatives			

		Net open position report	Treasury FX NOP report for derivatives as well as non-derivatives positions (For FX NOP aggregation - the output of this report will flow to data warehouse)			
		VaR, stressed VaR and Expected Shortfall (ES)	Report for VaR, stressed VaR and ES across asset class and across various products			
		CVA and PFE	Report for CVA and PFE based limits			
		Stress testing report	Report for outcome / results of stress testing			
		Counterparty collateral and margin report	Counterparty wise collateral received / provided (including interest paid / received on the collateral)			
		Margin dispute report	Report on trades where margin related disputes are outstanding			
		MTM report	Trade wise MTM report with different frequencies (daily, monthly, quarterly, etc.)			
		Nostro balance	Nostro balances limit breach report on an intra-day basis			
		Deal deferral	Functionality to fetch deferrals report across products and asset class			
		Pending confirmation report	Unconfirmed trade report (both from bank and counterparty side) across products and asset class			
		Impending payments	Impending payments report across products and asset class.			
		Nostro fund management	Details of date/ time for credit of funds to vostro account & subsequent payment to beneficiary			

		Nostro fund reconciliation	Unmatched entries in terms of transaction identifier, date / age wise entries and amount wise entries etc.			
		Disclosures	Information related to the treasury products for disclosure requirements as per IFRS 9 and related disclosures in IFRS 7. The disclosure information will include Valuation, Position details, Stage transition information, Fair valuation, Valuation adjustments, ECL calculation numbers etc.			
		Regulatory Reports	The TMS should be able to generate reports required for submission to Central Bank and other regulators to be configured on the request of Banks Team.			
		Regulatory Reports	Regulatory Reports including but not limited to , CRR/ SLR, DSB returns, BSR/BLR returns ,daily liquidity data etc.			
		Valuation report	Report capturing valuation for specific product type according to market prices.			
		Reverse stress testing	Report for the assumptions and results of stress testing and reverse stress testing			
		Credit rating of securities	Report which captures changes in the ratings of any security in the Bank's portfolio			
		Backtesting report	Backtesting output report flexible with user / portfolio specific requirements.			
		Capital computation	Report capturing calculation of market risk capital charge using the Standardized measurement method (SMM)			
		Breach authorization	Exception report for number of breach and time taken for redressal			
		Assessment of margin	Report when the threshold level of margin is breached			

		Daylight Limit	Calculation of maximum Daylight exposure.			
		Net overnight Open position	Calculation of net overnight open position			
		LR and ALE	Report on structural liquidity and Asset Liability exposure			
		NSFR	Report on net stable funding ratio			
		CRILC	Creation of customizable CRILC report			
		RWA	Detailed real-time report generation on risk weighted assets			
		Capital Charge	Computation of capital charge			
		Non-Position Items	Maturity-wise and customizable reports on non-position items based on contractual and residual maturities, tenor buckets, interest payable, etc.			
		CSGL Report	The system should be able to generate all the required reports such as Ownership Pattern, Gilt account Holding as per requirements etc.			
		FSI DATA	TMS should generate FSI DATA Repot			
		NOOP Stress test report	TMS should generate Stress Test on Net Overnight Open Position			
		DNA	TMS should provide Data Network Analysis			
		RBS	Risk Based Supervision: TMS should be able to generate all the DCT points of RBS report.			
		RBA	TMS should support RBI Risk Based Approach			
		IBS	TMS should support/provide International Banking Statistics			
		Dealer wise Trading Report	Dealer wise tenor wise data extraction exhibiting P/L, turnover and KRIs maintained by each dealer.			

		Client wise Daily forex Income analysis report	Client wise Daily forex Income analysis report			
		Branch wise daily forex income report	TMS should provide Branch wise daily forex income report.			
		Daily Forex MTM report	Product/contract wise daily MTM calculation report			
		SIR report	Report on interest rate sensitivity			
		Top 10 Counterparties	Report on top 10 counterparties based on the notional amount of outstanding contracts, credit exposure, potential future exposure, credit equivalent etc.			
		Top 10 clients	Report on top 10 clients based on the notional amount of outstanding contracts, credit exposure, potential future exposure, credit equivalent etc.			
		Fund position	Report on daily fund position			
		Forex bank balances	Report on NOSTRO bank balances.			
		Report on outstanding FCY lending/borrowing	Report on outstanding FCY lending/borrowing			
		Report on outstanding FCY deposits.	Report on outstanding FCY deposits.			
		Currency wise Regulatory liquidity reports	Cash flow reports of all foreign currencies.			

		Stress testing report	stress test report on direct participant, counterparties, stress on customer bank of a correspondent bank, liquidity stress.			
		LCR & NSFR Report	system should provide data for LCR and NSFR reports in line with the requirement of regulator/department.			
		Data for IRRBB	The system should provide data for compilation of IRRBB as per existing and revised guidelines.			
		Audit Trail	The system should have the ability to generate a detailed audit trail on a daily basis for the following minimum features for all the functionalities available in the product and customization solution: a. Attempted unauthorized and unsuccessful logins b. Time of login and logout c. Change of passwords d. Change of parameters e. The audit trail should be at a granular level, and track the user across each activity/upto field level changes. f. All transactions should be time stamped with user ID along with details of modification, if any g. Details of databases accessed and modified by the users should be maintained by the system h. The system should have the ability to store and track all system events, including corrections and cancellations by multiple criteria i. The system should maintain an error log in case of missing and/or erroneous data			

46	**Upstream and Downstream Feeds/Interfaces**	Multi contributor platforms: (FXT, FXall, 360T & MarketAxess)	The TMS should have the ability to interface and source data from multi contributor platforms.			
		Market data providers: (Refinitiv / Bloomberg / ICE/COGENCIS/FIMMDA/FEDAI)	TMS should support the consumption of the following types of RICS which shall flow from market data providers: 1. FX Spot Rates 2. Reference currencies interest rate curves 3. Cross currency basis swap curve 4. Volatility surface			
		Bloomberg dealing platforms: EMSX (Equity), Vcon (Debt), MarketAxess (Debt and Derivatives) & FXGo (FX)	The TMS should have the ability to interface and source data from Bloomberg and various modules provided by Bloomberg.			
		Broker trading platforms: (Barcs or Clearing broker for Debt)	The TMS should have the ability to interface and source data from broker trading platforms.			
		MarketAxess (Derivatives)	The TMS should have the ability to interface and source data from MarketAxess separately for derivatives			

		Data warehouse	The TMS should be able to support creation of custom tables / views for the below listed data that can be fed into the data warehouse:· Position data · Transaction data · Accounting entries · Cashflow data · Master data · Valuation and risk data · P&L data Additionally, The TMS should provide the bank with access to all tables in the TMS database for the purpose of SQL querying, extraction and reporting.The TMS should provide the bank with a detailed data dictionary document for all tables in the system.			
		SWIFT	SWIFT message shall be directly sent to SWIFT from the TMS through MQ or alternate. Should support, MT, MX and all ISO standards currently under use across industry. Shall comply with SWIFT formats , Regulatory Formats as well as the respective Counterparty Standards.			
		CBS	The TMS should support the functionality of bi-directional flow of information, accounting entries, data feeds, limits ,balances , new accounts, account/master updations, SLAC, NPI/NPA and other entities/data items as desired by the bank during implementation.			
		ALM System	The TMS should have the ability to integrate with the ALM system through the flow of position and cashflow data etc.			
		Log management system (Splunk)	The TMS should have the ability to interface with Log management system to export audit trail logs.			

		Internal ALM/ FTP	The TMS should have the ability to integrate with the ALM system for capturing FTP curves.			
		Moody's Analytics: Credit Lens / Risk Calc	TMS should have both upstream and downstream integration with Moody's Analytics: Credit Lens / Risk Calc for inflow and outflow of information.			
		API Connectivity	System must support secure APIs with bidirectional communication, including authentication, authorization, throttling, and audit logging. APIs must allow real-time push/pull of treasury data.			
		Real-Time Data Sync	System should support event-driven real-time data synchronization. Must handle high-volume intraday updates without performance degradation.			
		Third-Party Systems	System must allow seamless integration with core banking, market data providers, trading platforms, risk engines, delivery channels and accounting systems through configurable adapters or connectors.			
		Data Integrity & Validation	System must validate inbound/outbound data for completeness, accuracy, schema compliance, format integrity, and duplication elimination. Failed records must be logged with reason codes.			
		Security & Compliance	All interfaces must enforce strong encryption protocols, token-based authentication, IP whitelisting, role-based access control, and audit trail recording of all interface transactions.			

		Interface Monitoring	System must provide monitoring dashboards, error logs, retry engines, customizable alerts (email/SMS/API), and reconciliation tools for tracking interface failures or delays. Interface Monitoring Upstream and downstream The Bank shall be able to track, analyze, and report interface performance and failures through system-generated reports.			
		Performance Requirements	System must meet defined performance thresholds: scalable throughput, and zero data loss under peak loads.			
		Change Management & Versioning	System must support interface versioning, backward compatibility, controlled deployment of interface changes, documentation updates, and sandbox environments for integration testing.			
47	**General Interfaces / Integration**	General requirement	TMS should be able to provide APIs to interface with third party systems and models including inhouse / proprietary development along with integration between TMS and **CBS, ALM, MIS&BI, BST, PeopleSoft, Mobile Banking, Ebanking, Risk Platform/application(IRS/ICRA/IBM etc.) and Multifactor Authentication Application**			
		Delivery Channels	TMS should be able to support direct API's with Banks all delivery channels enabling the extension of relevant Treasury products and bi-directional data exchange in between.			
		General requirement	TMS must be able to integrate (if required) with mutually agreed external analytical / reporting tools. It must support real time and batch operations, e.g., Moody's analytics, etc.			

		General requirement	TMS should also have flat file export / import functionality to export and import different types of data to and from the system. It should support all standard file formats included but not limited to Excel, CSV, text, xml etc.			
		Data warehouse integration	There should be readily available DB scripts which should be easily plug in to any generic tool for extracting data from treasury system to DWH (data warehouse) or any other data mart/data cloud.			
		Error handling	TMS should have flexible and configurable functionality to handle in case the system encounters any error / fails validation during the data upload / extraction / during EOD. Depending on the Bank's preferences, the system should be able to define error handling. It could be direct reject, partial reject, continue but flag off the error, automatic correction / default values depending on the data type and the process being followed for the data upload.			
		Real-time event integration	TMS must support real-time event-driven integrations.			
		Authentication & Identity Management	TMS must support SSO and identity standards.			
		Audit Trail & Log Export	TMS must provide full audit logging and real-time export via secure channels.			

		Banking & Payment Interfaces and other intebanks ystems and platforms	TMS must support full Integrations with Banks all other systems including and not limited to : SWIFT (MX, FIN, FileAct, ISO20022), CRM, RTGS, NEFT, All CCIL dealing applications including FX Retail,NDS OM and FX Clear, All CCIL reporting platforms(CORE, FRS,IFIN, REPORT BROWSER, DLT etc.) and other settlement systems.			
		Market & Reference Data Feeds	TMS must integrate with Reuters/Bloomberg/Cogencis for FX rates, curves, holidays, static data, in real-time and batch modes.			
		Exception Workflow Management	TMS must support workflows for pre/post validation, retries, approvals, notifications, and exception logs.			
		Cloud-native Compatibility	TMS must support containerization, health checks, load balancing, cloud monitoring, and horizontal scaling.			
		Performance & SLA Requirements	TMS must meet defined SLAs for API latency, batch window durations, file size limits, and throughput.			
48	**Artificial Intelligence / Machine Learning/ Cloud Support**	AI driven Process and pattern optimization	TMS with the aid of AI should help in process and task optimization. Pattern matching etc.			
		Integrated Workflow & Document Management Solution.	TMS must have Proper Workflow Management, Document management portal with OCR/ ICR Integration for Deal Record and Digitization.			

		CHAT BOTS AND DATA ANALYTICS	TMS should have the functionality and availability to support Chat Modules/Chatbots. AI driven Data Analytics and Do it yourself approach. Across all the modules and sub modules.			
		AI driven fund placment suggestions	TMS should be able to suggest best fund placement options.			
		AI Driven Forecasts	TMS should support the AI Driven Forecasts.			
		AI Driven Risk mitigation measures	TMS with the help of the AI, should be able to propose the best Risk Mitigation measures.			
		CLOUD Support & Migration	TMS should be able to be hosted on both On-Premises and CLOUD environments. Should support migration (To and Fro) between On-Premises to CLOUD(Private/Public)			

Annexure F: Commercial Bid Format

The Commercial Bid shall be submitted in the following format:

1. Please be guided by RFP terms, subsequent amendments and replies to pre-bid queries (if any) while quoting.
2. No counter condition/assumption in response to commercial bid will be accepted. Bank has a right to reject such bid.

The Commercial Bid shall be submitted in the following format:

Description	Unit Price	Unit Price in Words	Multiplication Factor (Tentative Qty)	Total Amount
Software License Cost (DR/DC Cost) (Perpetual License with 2 year Warranty)	a		1	A=a
One-time implementation cost for the end-to-end Solution, including installation, configuration, customization (if any), integration, data migration, testing, training, Go Live support (DC & DR).	b		1	B=b
Annual Maintenance Charges including Technical support (AMC) for the end-to-end Solution (applicable from Year 3 onwards, after completion of the two-year warranty period).	c		3 Years	C=c X 3
Yearly Cost for L1 resource be deployed onsite, post Go-Live, for two (2) Warranty years, extendable for an additional three (3) years at the same rates, year on year basis, if required by the Bank .(Cost per Year)	d		2 years	D=dx2
Yearly Cost for L2 resource be deployed onsite, post Go-Live, for two (2) Warranty years, extendable for an additional three (3) years at the same rates, year	e		2 years	E=ex2

on year basis, if required by the Bank .(Cost per Year)				
Man-day rate for Bank-specific customizations or enhancements (excluding regulatory or statutory changes), beyond the scope defined in the RFP.(Cost per Man-day)	f		100 Mandays	F=fx100
DB/Middleware Cost if any (other than Oracle) including bundled support for 2 years	g		1	G=gx1
ATS cost for DB/Middleware (Year 3 to 5)	h		3 Years	H=hx3
Total Cost for 5 Years				X=A+B+C+D+E+F+G+H
TCO in Words				

Note:

1. All prices must be quoted in INR, exclusive of GST.
2. The prices quoted by the Bidder in this Commercial Bid shall remain firm and locked for the entire duration of the Contract, without any escalation.
3. If a price is left blank or quoted as zero, it shall be treated as "at no cost" or considered to be included in other line items.
4. No additional cost shall be allowed post issuance of the Purchase Order or Letter of Intent.
5. If the proposed solution is compatible with Oracle database and Oracle Web-logic, bank will provide licenses for the same so commercials for the same need not to be factored in.

Annexure G: Bank Guarantee Format

Bank Guarantee No: ________________

Dated:___________________________

Bank:_____________________________

To
Jammu & Kashmir Bank M.A. Road, Srinagar,
190 001 J&K.

WHEREAS... (Company Name) and having its Registered Office at... India (hereinafter referred to as "the Bidder") proposes to respond to RFP No ...., dated .... of Jammu and Kashmir Bank Ltd for **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution**

(Herein after called the "RFP") AND

WHEREAS, in terms of the conditions as stipulated in the RFP, the bidder is required to furnish a Bank Guarantee in lieu of the Earnest Money Deposit (EMD), issued by a scheduled commercial bank in India in your favour to secure the order under the RFP Document (which guarantee is hereinafter called as "BANK GUARANTEE") AND WHEREAS the bidder has approached us, ... for providing the BANK GUARANTEE.

AND WHEREAS at the request of the bidder and in consideration of the proposed RFP to you, We ,...having Branch Office/Unit amongst others at.., India and registered office/Headquarter at...have agreed to issue the BANK GUARANTEE.

THEREFORE, We,..., through our local office at.. India furnish you the Bank GUARANTEE in manner hereinafter contained and agree with you as follows:

1. We...................................., undertake to pay the amounts due and payable under this Guarantee without any demur, merely on demand from you and undertake to indemnify you and keep you indemnified from time to time to the extent of Rs........................(Rupees ....only) an amount equivalent to the EMD against any loss or damage caused to or suffered by or that may be caused to or suffered by you on account of any breach or breaches on the part of the bidder of any of the terms and conditions contained in the RFP

and in the event of the bidder commits default or defaults in carrying out any of the work or discharging any obligation in relation thereto under the RFP or otherwise in the observance and performance of any of the terms and conditions relating thereto in accordance with the true intent and meaning thereof, we shall forthwith on demand pay to you such sum or sums not exceeding the sum of Rs......................(Rupees.. only) as may be claimed by you on account of breach on the part of the bidder of their obligations in terms of the RFP. Any such demand made on the Bank shall be conclusive as regards amount due and payable by the Bank under this guarantee.

2. Notwithstanding anything to the contrary contained herein or elsewhere, we agree that your decision as to whether the bidder has committed any such default or defaults and the amount or amounts to which you are entitled by reasons thereof will be binding on us and we shall not be entitled to ask you to establish your claim or claims under Bank Guarantee but will pay the same forthwith on your demand without any protest or demur.

3. This Bank Guarantee shall continue and hold good until it is released by you on the application by the bidder after expiry of the relative guarantee period of the RFP and after the bidder had discharged all his obligations under the RFP and produced a certificate of due completion of work under the said RFP and submitted a " No Demand Certificate " provided always that the guarantee shall in no event remain in force after the day of ....without prejudice to your claim or claims arisen and demanded from or otherwise notified to us in writing before the expiry of the said date which will be enforceable against us notwithstanding that the same is or are enforced after the said date.

4. Should it be necessary to extend Bank Guarantee on account of any reason whatsoever, we undertake to extend the period of Bank Guarantee on your request under intimation to the SI/OEM till such time as may be required by you. Your decision in this respect shall be final and binding on us.

5. You will have the fullest liberty without affecting Bank Guarantee from time to time to vary any of the terms and conditions of the RFP or extend the time of performance of the RFP or to postpone any time or from time to time any of your rights or powers against the bidder and either to enforce or forbear to enforce any of the terms and conditions of the said RFP and we shall not be released from our liability under Bank Guarantee by exercise of your liberty with reference to matters aforesaid or by reason of any time being given to the bidder or any other forbearance, act or omission on your part of or any indulgence by you to the bidder or by any variation or modification of the RFP or any other act, matter or things whatsoever which under law relating to sureties, would but for the provisions hereof have the effect of so releasing us from our liability hereunder provided always that nothing herein contained will enlarge our liability hereunder beyond the limit of Rs.................(Rupees...................................only) as aforesaid or extend the period of the guarantee beyond the said day of .... unless expressly agreed to by us in writing.

6. The Bank Guarantee shall not in any way be affected by your taking or giving up any securities from the bidder or any other person, firm or company on its behalf or by the winding up, dissolution, insolvency or death as the case may be of the bidder

7. In order to give full effect to the guarantee herein contained, you shall be entitled to act as if we were your principal debtors in respect of all your claims against the bidder hereby guaranteed by us as aforesaid and we hereby expressly waive all our rights of surety ship and other rights, if any, which are in any way inconsistent with any of the provisions of Bank Guarantee.

8. Subject to the maximum limit of our liability as aforesaid, Bank Guarantee will cover all your claim or claims against the bidder from time to time arising out of or in relation to the said RFP and in respect of which your claim in writing is lodged on us before expiry of Bank Guarantee.

9. Any notice by way of demand or otherwise hereunder may be sent by special courier, telex, fax or registered post to our local address as aforesaid and if sent accordingly it shall be deemed to have been given when the same has been posted.

10. The Bank Guarantee and the powers and provisions herein contained are in addition to and not by way of limitation of or substitution for any other guarantee or guarantees here before given to you by us (whether jointly with others or alone) and that Bank Guarantee is not intended to and shall not revoke or limit such guarantee or guarantees.

11. The Bank Guarantee shall not be affected by any change in the constitution of the bidder or us nor shall it be affected by any change in your constitution or by any amalgamation or absorption thereof or therewith but will ensure to the benefit of and be available to and be enforceable by the absorbing or amalgamated company or concern.

12. The Bank Guarantee shall come into force from the date of its execution and shall not be revoked by us any time during its currency without your previous consent in writing.

13. We undertake to pay to you any money so demanded notwithstanding any dispute or disputes raised by the bidder in any suit or proceeding pending before any court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

14. The Bank Guarantee needs to be submitted in online form also via SFMS Application.

15. Notwithstanding anything contained herein above.
    i. our liability under this Guarantee shall not exceed Rs...(Rupees......................................only).
    ii. this Bank Guarantee shall be valid up to and including the date .... _____and claim period shall be up to_____ ; and

iii. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before the expiry of the claim period.

16. We have the power to issue this Bank Guarantee in your favour under the Memorandum and Articles of Association of our Bank and the undersigned has full power to execute this Bank Guarantee under the Power of Attorney issued by the Bank.

For and on behalf of BANK

Authorized Signatory

Seal

Address

Annexure H: Performance Bank Guarantee Format

To
Jammu & Kashmir Bank M.A. Road, Srinagar,
190 001 J&K.

WHEREAS.................................. (Company Name) registered under the Indian Companies Act 1956 and having its Registered Office at ...., hereinafter referred to as the Bidder has for taken up for **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** in terms of the Purchase Order bearing No.. Dated ...., hereinafter referred to as the Contract. And Whereas in terms of the Conditions stipulated in the said Contract, the bidder is required to furnish, performance Bank Guarantee issued by a Scheduled Commercial Bank in your favor to secure due and satisfactory compliance of the obligations of the Bidder in accordance with the Contract; Therefore, We, ..., through our local office at .... Furnish you this Performance Guarantee in the manner hereinafter contained and agree with you as follows:

1. We, ...do hereby undertake to pay the amounts of ₹ .... and payable under this Guarantee without any demur, merely on a demand, which has to be served on us before the expiry of this guarantee, time being essence of the contract, from you stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by you by reason of breach by the said Bidder of any of the terms and conditions contained in the Contract or by reason of the vendor's failure to perform the said contract. Any such demand made on us within the time stipulated above shall be conclusive as regards the amount due and payable by us under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding............. (Rupees .... Only).

2. We undertake to pay to you any money so demanded notwithstanding any dispute/s raised by the Bidder in any suit or proceeding before any Court or Tribunal relating thereto, our liability under these presents being absolute and unequivocal. The payment so made by us under this guarantee shall be a valid discharge of our liability for payment there under and the Bidder shall have no claim against us for making such payment.

3. We further agree that, if demand, as stated above, is made on us within the stipulated period, the guarantee herein contained shall remain in full force and effect and that it shall continue to be enforceable till all your dues under or by virtue of the said contract have been fully paid and your claims satisfied or discharged or till you certify that the terms and conditions of the said contract have been fully and properly carried out by the said Bidder and accordingly discharge this guarantee. Provided, however, serving of a written claim / demand in terms hereof on us for

payment under this guarantee on or before the stipulated period , time being the essence of contract, shall be a condition precedent for accrual of our liability / your rights under this guarantee.

4. We further agree with you that you shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder, to vary any of the terms and conditions of the said Contract or to extend time for performance by the said vendor from time to time or to postpone for any time or from time to time any of the powers exercisable by us against the said Bidder and to forbear or enforce any of the terms and conditions relating to the said Contract and we shall not be relieved from our liability by reason of such variation, or extension being granted to the said Vendor or for any forbearance, act or omission on our part or any indulgence by us to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
5. This Guarantee will not be discharged due to the change in the constitution of our Bank or the Bidder
6. We further agree and undertake unconditionally without demur and protest to pay you the amount demanded by you in writing irrespective of any dispute or controversy between you and the Bidder
7. We lastly undertake not to revoke this guarantee during its currency except with your written Consent. Notwithstanding anything contained herein above;

(i) Our liability under this Guarantee shall not exceed..Rupees...................................only);

(ii) This Guarantee shall be valid up to ....; and claim period of this Bank Guarantee shall be .... year/s after expiry of the validity period i.e., up to.........................; and

(iii) We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and only if you serve upon us a written claim or demand on or before the expiry of the claim period.

Dated the................ Day of ....2026.

For.......................................

BANK Authorized Signatory

Annexure I: Non-disclosure Agreement (NDA)

THIS NON DISCLOSURE AGREEMENT (the "Agreement") is made and entered into as of (____/____/2026) by and between

"Jammu and Kashmir Bank Ltd, a Banking Company under Indian Companies Act,2013 having corporate and registered office at M.A.Road,Srinagar,J&K,India-190001 represented herein by Authorized Signatory (hereinafter referred as Bank/Disclosing Party which unless the context requires include its successors in interests and permitted assigns). (the "Bank/Disclosing Party").

and

____, a company incorporated under the laws of India, having its registered address at _______________________________ (the "Receiving party/Company")

The Company/Receiving party and Bank/Disclosing Party are hereinafter collectively referred to as parties and individually as a party.

Whereas the parties have entered into contract and for performance of contract, the parties may share/disclose certain proprietary/confidential information to each other. To protect the confidentiality of the confidential information shared/disclosed, the parties hereto have entered into this NDA.

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. **Purpose** J&K Bank/Disclosing Party has engaged or wishes to engage the Company/Receiving party for undertaking the project of **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** and each party may disclose or may come to know during the course of the project certain confidential technical and business information which the disclosing party desires the receiving party to treat as confidential.

2. **Confidential Information** means any information disclosed or acquired by other party during the course of the projects, either directly or indirectly, in writing, orally or by inspection of tangible objects (including without limitation documents, prototypes, samples, technical data, trade secrets, know-how, research, product plans, services, customers, markets, software, inventions, processes, designs, drawings, marketing plans, financial condition and the Company's plant and equipment), which is designated as "Confidential," "Proprietary" or some similar designation. Information communicated orally shall be considered Confidential Information if such information is confirmed in writing as being Confidential Information within a reasonable time after the initial disclosure. Confidential Information may also include information disclosed to a disclosing party by third parties. Confidential Information shall not, however, include any information which

i. was publicly known and made generally available in the public domain prior to the time of disclosure by the disclosing party;

ii. becomes publicly known and made generally available after disclosure by the disclosing party to the receiving party through no action or inaction of the receiving party;

iii. is already in the possession of the receiving party at the time of disclosure by the disclosing part as shown by the receiving party's files and records immediately prior to the time of disclosure;

iv. is obtained by the receiving party from a third party without a breach of such third party's obligations of confidentiality;

v. is independently developed by the receiving party without use of or reference to the disclosing party's Confidential Information, as shown by documents and other competent evidence in the receiving party's possession; or

vi. Is required by law to be disclosed by the receiving party, provided that the receiving party gives the disclosing party prompt written notice of such requirement prior to such disclosure and assistance in obtaining an order protecting the information from public disclosure.

3. Non-use and Non-disclosure. Each party agrees not to use any Confidential Information of the other party for any purpose except to evaluate and engage in discussions concerning a potential business relationship between the parties. Each party agrees not to disclose any Confidential Information of the other party to third parties or to such party's employees, except to those employees of the receiving party who are required to have the information in order to evaluate or engage in discussions concerning the contemplated business relationship. Neither party shall reverse engineer, disassemble, or decompile any prototypes, software or other tangible objects which embody the other party's Confidential Information and which are provided to the party hereunder.

4. Maintenance of Confidentiality. Each party agrees that it shall take reasonable measures to protect the secrecy of and avoid disclosure and unauthorized use of the Confidential Information of the other party. Each party shall take at least those measures that it takes to protect its own most highly confidential information and shall ensure that its employees who have access to Confidential Information of the other party have signed a non-use and non-disclosures agreement in content similar to the provisions hereof, prior to any disclosure of Confidential Information to such employees. Neither party shall make any copies of the Confidential Information of the other party unless the same are previously approved in writing by the other party. Each party shall reproduce the other party's proprietary rights notices on any such approved copies, in the same manner in which such notices were set forth in or on the original. Each party shall immediately notify the other party in the event of any unauthorized use or disclosure of the Confidential Information.

5. No Obligation. Nothing herein shall obligate either party to proceed with any transaction between them and each party reserves the right, in its sole discretion, to terminate the discussions contemplated by this Agreement concerning the business opportunity. This Agreement does not constitute a joint venture or other such business agreement.

6. No Warranty. All Confidential Information is provided by Bank as "AS IS." Bank/Disclosing Party makes no warranties, expressed, implied or otherwise, regarding its accuracy, completeness or performance.

7. Return of Materials. All documents and other tangible objects containing or representing Confidential Information which have been disclosed by either party to the other party, and all copies thereof which are in the possession of the other party, shall be and remain the property of the disclosing party and shall be promptly returned to the disclosing party upon the disclosing party's written request.

Receiving Party shall immediately return and redeliver to Disclosing Party/ Bank all tangible material embodying the Confidential Information provided hereunder and all notes, summaries, memoranda, , records, excerpts or derivative information deriving there from and all other documents or materials ("Notes") (and all copies of any of the foregoing, including "copies" that have been converted to computerized media in the form of image, data or word processing files either manually or by image capture) based on or including any Confidential Information, in whatever form of storage or retrieval, upon the earlier of (i) the completion or termination of the dealings between the parties contemplated hereunder; (ii) the termination of the Master Agreement; or (iii) at such time as the Disclosing Party/ Bank may so request.

The receiving party shall destroy /dispose off the confidential information provided by the disclosing party together with its copies upon written request of the disclosing party, as per the directions issued by the disclosing party and such destruction shall be confirmed in writing by receiving party.

8. No License. Nothing in this Agreement is intended to grant any rights to either party under any patent, mask work right or copyright of the other party, nor shall this Agreement grant any party any rights in or to the Confidential Information of the other party except as expressly set forth herein.

9. Term. The Obligations of each receiving party hereunder shall survive even after this agreement except as provided herein above.

10. Adherence. The content of the agreement is subject to adherence audit by J&K Bank. It shall be the responsibility of the Company/Receiving party to fully cooperate and make available the requisite resources/evidences as mandated by J&K Bank Supplier Security policy.

11. Remedies. Each party agrees that any violation or threatened violation of this Agreement may cause irreparable injury to the other party, entitling the other party to seek injunctive relief in addition to all legal remedies.

12. Arbitration, Governing Law & Jurisdiction. In the case of any dispute arising upon or in relation to or in connection with this Agreement between parties, the disputes shall at the first instance be resolved through negotiations. If the dispute cannot be settled amicably within fourteen (14) days from the date on which either Party has served written notice on the other of the dispute then any party can submit the dispute for arbitration under Arbitration and conciliation Act,1996 through sole arbitrator to be appointed mutually by the parties.

The place of Arbitration shall be Srinagar, India and the language of the arbitration proceedings and that of all the documents and communications between the parties shall be English.

The decision of the arbitrator shall be final and binding upon the parties. The expenses of the arbitrator as determined by the arbitrator shall be borne equally.

The parties shall continue to be performing their respective obligations under this Agreement, despite the continuance of the arbitration proceedings, except for the disputed part under arbitration. This agreement shall, in all respects, be governed by, and construed in accordance with the Laws of the UT of J&K read with applicable Laws of India. The Courts in Srinagar India shall have exclusive jurisdiction in relation to this agreement.

All notices or other communication under or in connection with this agreement shall be given in writing and may be sent by personal delivery, or post or courier or facsimile or email. Any such notice or other communication will be deemed to be effective if sent by personal delivery, when delivered, if sent by post, five days after being deposited in the post office and if sent by courier, three days after being deposited with the courier, if sent by facsimile, when sent (on receipt of a confirmation of having been sent to correct facsimile number) and if sent my mail (on receipt of confirmation).

_____________ (Contact details of Company/Receiving party)

General Manager (S&IT)
J&K Bank -Corporate Headquarters,
MA Road Srinagar, J&K

13. Miscellaneous. This Agreement shall bind and intended for the benefit of the parties hereto and their successors and assigns. This document contains the entire Agreement between the parties with respect to the subject matter hereof, and neither party shall have any obligation, express or implied by law, with respect to trade secret or propriety information of the other party except as set forth herein. Any failure to enforce any provision of this Agreement shall not constitute a waiver thereof or of any other provision.

Any provision of this Agreement may be amended or waived if, and only if such amendment or waiver is in writing and signed, in the case of amendment by each Party, or in the case of a waiver, by the party against whom the waiver is to be effective”.

The undersigned represent that they have the authority to enter into this Agreement on behalf of the person, entity or corporation listed above their names.

COMPANY NAME	**Bank**
By:______________________________	By:______________________________
Name: ___________________________	Name: ___________________________
Title: ____________________________	Title: ____________________________
Address:__________________________	Address:__________________________
________________________________	________________________________
Company Seal	Company Seal

Annexure J: Service Level Agreement

This Service Level agreement ("Agreement") is made at Srinagar on this ……….day of ……….2026 between

i. "Jammu and Kashmir Bank Ltd, a Banking Company under Indian Companies Act,2013 having corporate and registered office at **M.A.Road,Srinagar,J&K,India-190001** represented herein by Authorized Signatory (hereinafter referred as Bank which unless the context requires include its successors in interests and permitted assigns) of the ONE PART, through its authorized signatory Mr.………………………………………………

and

ii. M/S ……………………………………………………, registered under the …………………………………… Act, having its Registered Office at ……………………………………………………………………………… (Hereinafter referred to as the "Successful Bidder" which expression shall unless it be repugnant to the context or meaning thereof, include its successors and assigns) of the OTHER PART, through its authorized signatory Mr.……………………………………………

The Bank and Company are hereinafter collectively referred to as 'Parties' and individually as a 'Party'.

Now therefore, this Agreement is witnessed as under:

Definitions of the terms

The Bank/J&K Bank:	Reference to the "the Bank", "Bank" and "Purchaser" shall be determined in context and may mean without limitation "Jammu & Kashmir Bank".
Bidder/Vendor/Successful Bidder/Company/ Service Provider :	An eligible entity/firm submitting a Proposal/Bid in response to this RFP.
Proposal/Bid:	The Bidder's written reply or submission in response to this RFP.
SLA:	This document in its entirety, inclusive of any addenda that may be issued by the Bank.

The Contract:	The agreement entered into between the Bank and the Company, as recorded in this Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.
The Contract Price:	The price payable to the Company under the Contract for the full and proper performance of its contractual obligations.
The Product:	All of the software or software, all hardware, database, middleware, operating systems and/or other materials which the Company is required to supply to the Bank under the Contract.
System:	A Computer System consisting of all Hardware, Software, etc., which should work together to provide the services as mentioned in the Bid and to satisfy the Technical and Functional Specifications mentioned in the Bid.
Specified Bank Location:	Banks Data Centre located at Noida and Banks Disaster Recovery Site Located at Mumbai.
PBG:	Performance Bank Guarantee.
Material Breach:	Company failure to perform a major part of this Agreement leading to breach in performance standards, confidentiality and security and in operational resilience preparedness, beyond defined service levels and failure to cure beyond agreed timelines.
Charges:	Commercials as per Purchase Order.
Confidential Information:	It includes all types of Information that will be found on BANK systems that the Company may support or have access to including, but are not limited to, Information subject to special statutory protection, legal actions, disciplinary actions, complaints, IT security, pending cases, civil and criminal investigations, etc.

Scope of Work

Vendor shall be responsible for providing services to Bank the Services defined in the RFP for Supply, installation and support of end-to-end Comprehensive & Integrated Treasury Management Solution in accordance with all the terms and conditions of the RFP clauses and as described in the Point 4 of Section A-Introduction of this RFP i.e Scope of Work (To be incorporated in SLA).

The bidder shall comply with the terms and conditions of the RFP including General Terms and condition under Section D of this RFP Document.

Location of Work

The successful bidder may complete the development of the solution remotely however if required successful bidder shall have to work at locations prescribed by Bank such as Banks DC/DR and other offices as per requirement. All expenses (travelling/lodging, etc.) shall be borne by the successful bidder

1. **CHQ , Srinagar**
   Jammu & Kashmir Bank Ltd.
   Corporate Headquarters,
   MA Road, Srinagar-190001

2. **Data Center Noida**
   Jammu & Kashmir Bank Ltd.
   Green Fort Data Center, Plot B7, Sector 132, Noida U.P.-201301

3. **DR Mumbai**
   CtrlS Data Center,
   Mahape, Navi Mumbai, Maharashtra, 400701

4. **Treasry Operations Mumbai**
   Bandra Kulra Mumbai

Contract Uptime & Penalties

During Period of contract, Service Provider will maintain the services as per SLAs.

i. Any bugs and enhancement in services shall be rectified immediately.
ii. Any requirements amendments/modifications required by bank will have to be carried out by the identified Service Provider during the contract without any additional cost.
iii. The maximum response time for a support/complaint from the site shall not exceed time defined, else it will fall under penalty clause.
iv. Service Provider shall solve the software problem immediately after reporting of the problem by the Bank to the Service Provider.
v. Any rectification required in the Application Software due to inherent bugs in the System Software/ off-the-shelf software shall also be rectified by the Service Provider, at no additional cost with timelines as defined in the SLA.

The Service Provider shall guarantee an uptime of 99.90 % during the contract period which shall be calculated on Quarterly basis. The "**Uptime**", for calculation purposes, equals to the Total number of hours of the day in a quarter, less Downtime in number of hours. Any part of hour is treated as full hour.

i. The "**Downtime**" is the time shall mean the time period when the Service/Application is not available as per the service standards of this SLA resulting failure. "**Failure**" is the condition that renders the solution not available to customers. "**Restoration**" is the condition when the Company demonstrates that the solution is in working order and the Bank acknowledges the same.

ii. The percentage uptime is calculated on quarterly basis as follows:

$$\frac{\text{(Total hours in a quarter - downtime hours within the quarter)}}{\text{Total hours in a quarter}} * 100$$

iii. (A month is taken as a calendar month and number of days are actually number of days in each month)

"Uptime": The Company shall guarantee and ensure the following SLA's are met during the Contract Period of the Hardware/Software/License/Services:

Service Window	24*7
Uptime Commitment	99.90%
Data Availability	100%

a) The "**Uptime**", for calculation purposes, equals to the Total number of hours of the day in a quarter, less Downtime in number of hours.

The percentage uptime is calculated on Quarterly basis as follows:

$$\frac{\text{(Total hours in a quarter - downtime hours within the quarter)}}{\text{Total hours in a quarter}} * 100$$

(A quarter is taken as a calendar quarter and number of days are actually number of days in each quarter)

b) **"Downtime**" is the time shall mean the time period when the Service/Application is not available as per the service standards of this SLA resulting failure. "**Failure**" is the condition that renders the solution not available to customers. "**Restoration**" is the condition when the Company demonstrates that the solution is in working order and the Bank acknowledges the same.

c) **"Percentage down time"** shall mean the aggregate of downtime of the particular system during the quarter expressed as a percentage of total available time in a year i.e. 90 * 24 hours. Thus, if the aggregate downtime of System works out to 2 hours during a year then the percentage downtime shall be calculated as follows:

$$\frac{2 \times 100}{90 \times 24} = 0.09\% \text{ (Considering days in a quarter as 90)}$$

(A month is taken as a calendar month and number of days are actually number of days in each month)

d) **"Response Time"** shall mean the interval from receipt of first information from Bank to the company, or to the local contact person of the Company by way of any means of communication informing them of the malfunction in System/Solution to the time Company Engineer attends the problem.

e) **"Restoration Time"** shall mean the period of time from the problem occurrence to the time in which the service returns to operational status. This may include temporary problem circumvention / workaround and does not necessarily include root cause removal.

f) **"Resolution Time"** shall mean the period of time from the problem occurrence to the time in which the root cause of the problem is removed, and a permanent fix has been applied to avoid problem reoccurrence.

g) **Down Time"** shall mean the time period when the Service/Application is not available as per the service standards of this SLA, and the service/application is not available to the users of the Bank /Customers of the Bank (and excludes the scheduled outages planned in advance IT infrastructure),due to the problem in it and downtime is the sum of response time and restoration time with the following exclusions:

Period when Bank denies access to the Company Engineer for carrying out repair activities.

During Period of contract, Service Provider will maintain the services as per SLAs. If the bidder fails to maintain guaranteed/committed uptime of 99.90% on quarterly basis, Bank shall apply penalty during the warranty period and AMC period. During warranty period ,warranty shall be extended by 1 month for every 1% downtime below the committed uptime in quarter , However during AMC period, Bank shall impose a penalty for loss of uptime below the guaranteed level as per table below:

Uptime	Penalty /Quarter
99.90% & Above	NA
99.89 to 98%	3% of the "AMC Cost per Quarter"
97.99% to 97%	5% of the "AMC Cost per Quarter"
96.99% to 95%	10% of the "AMC Cost per Quarter"
Less than 95%	Penalty at an incremental rate of 1% (in addition to a base of 10%) of the "AMC Cost/Quarter" *for every 0.5% lower than the stipulated uptime

*** If total AMC Cost for 3 Years=X**

Total Quarters of Contract=12
"AMC Cost Per Quarter" = (X/12)

Bank may recover such amount of penalty from any payment being released to the bidder, irrespective of the fact whether such payment is relating to this contract or otherwise. In case there is no pending invoices to be paid by the Bank to the bidder, the bidder has to submit a pay order / cheque payable at Srinagar in favor of Jammu & Kashmir Bank for the same within 15 days from the notice period from the Bank, failure of same may result in invoking of PBG for recovery of penalty. If the downtime exceeds 10 % and instances of downtime are more than 10 in a year, Bank has the discretion to cancel the contract.

If any penalty is levied by any regulator on the Bank which is attributed to the solution or any of its components, then the entire amount of such loss shall be recovered from the bidder on actual basis.

Note: SLA will be monitored on Quarterly basis.

Service Levels:

This SLA document provides for minimum level of services required as per contractual obligations based on performance indicators and measurements thereof. The Company shall ensure provisioning of all required services while monitoring the performance of the same to effectively comply with the performance levels. The services provided by the Company shall be reviewed by Bank that shall:

- Regularly check performance of the Company against this SLA.
- Discuss escalated problems, new issues and matters still outstanding for resolution.
- Review of statistics related to rectification of outstanding faults and agreed changes.
- Obtain suggestions for changes to improve the service levels.

Non-Availability: Is defined as, the service(s) is not-available as per levels below.

a. **Severity Level 1**: Is defined as, the Service is not available or there is a major degradation in performance of the system.

b. **Severity Level 2:** Is defined as, the service is available, but the performance is degraded or there are intermittent failures and there is an urgent need to fix the problem to restore the service

c. **Severity Level 3**: Is defined as, the moderate degradation in the application performance. Has no impact on the normal operations/day-to-day working.

The violation of any of the above SLA's will attract a penalty as set out in the table below:

Severity Level	Response	Restoration	Resolution

Severity-1	30 mins.	3 hrs.	1 day
Severity-2	30 mins.	6 hrs.	2 days
Severity-3	30 mins.	12 hrs.	3 days

Penalties for Non-Compliance to Restoration and Resolution Time:

Severity Level	Restoration Breach	Resolution Breach
Severity-1	0.50% of AMC Cost/Quarter for every 4 hrs. of delay in restoration	0.50% of AMC Cost/Quarter for every 1 day of delay in resolution
Severity-2	0.50% of AMC Cost/Quarter for every 6 hrs. of delay in restoration	0.50% of AMC Cost/Quarter for every 5 day of delay in resolution
Severity-3	0.50 % of AMC Cost/Quarter for every 12 hrs. of delay in restoration	0.50% of AMC Cost/Quarter for every 7 day of delay in resolution

Penalty for delayed Delivery:

Without prejudice to the rights of Bank to terminate this agreement/ the related purchase order, in case of the failure to deliver the solution/milestones within the stipulated timelines, penalty shall be levied for every 1-week delay beyond due date at the rate of 1% of the implementation cost/order value of delayed item/milestone/phase (inclusive of all taxes, duties, levies etc.), up to a maximum of 10 weeks from the original delivery date. If delay exceeds 10 weeks, bank may in its sole discretion and without being bound to do so, extend the date of delivery or can invoke PBG and cancel the entire contract. In the event of the Bank agrees to extend the date of delivery at the request of the Company, it is a condition precedent that the validity of the Performance Bank Guarantee submitted by the Company in regard to the supply and maintenance etc. of the solution shall be extended by further period as required by the Bank before the expiry of the original Bank Guarantee. Failure to do so will be treated as breach of contract. Service Provider shall be excused of delay in case the installation could not be completed due to reasons not attributable to bidder, which shall be determined by Bank. Decision of Bank in this regard shall be final and binding.

No penalty shall be levied to the Company for delay in delivery due to reasons attributable to the Bank.

Attendance-Onsite Resource:
The Selected bidder shall guarantee and ensure the SLA's are met during the Contract Period:

- Resource Attendance: 95% (Including leaves and resource replacement periods)

- The "Resource Attendance", for calculation purposes, equals to the Total number of working days in a quarter, less total number of un-attended working days.
- The “Percentage Attendance” is calculated on quarterly basis as follows:

$$\frac{\text{(Total working days in a quarter – unattended working days within the quarter)}}{\text{(Total working days in a quarter)}} \times 100$$

(A quarter is taken as a calendar quarter and number of working days is number of working days as per the Mumbai financial calendar)

Pls note:

- The bidder shall notify the Bank’s IT Department as soon as possible of any absence, medical, or emergency leave by any of the onsite resource.
- Leaves exceeding three (3) consecutive working days in duration shall require prior approval from the Bank’s IT Department and the vendor shall provide an equally competent backup resource to ensure uninterrupted service delivery. Failure to comply will be treated as absence and will result in penalties as defined in the SLA
- The Vendor shall notify the Bank’s IT Department at least 30 days in advance if any onsite resource member resigns. The Vendor will provide equally competent replacement to ensure uninterrupted service delivery. Failure to provide a replacement will be treated as absence and will result in penalties as defined in the SLA.
- If any appointed personnel are deemed unacceptable by the Bank for any reason, the Bidder shall replace them within two weeks of receiving such intimation, at no additional cost to the Bank.
- Bidder will have to guarantee a minimum attendance of each resource of 95%, calculated on a quarterly basis.
- The working availability of the resources shall be from 9 am till Day End procedure/process of the system.
- The bidder shall ensure that resources are available to provide support on weekends and/or Bank holidays, as and when required, in case there is some planned activity.

Penalty for non-adherence to Attendance:

1% of Onsite Resource Cost for every 1% less than the required % of attendance (95%) in a quarter. The attendance percentage would be calculated on quarterly basis, and the calculated amount would be adjusted from every subsequent quarter payment. In case there is no pending invoices to be paid by the Bank to the bidder, Penalty due during the contract period shall be adjusted against the proceeds of Performance Bank Guarantee (PBG) / BG/ EMD / Retention money etc., as may be deemed fit by the Bank within 15 days of notice period from the Bank.

However, the bank reserves the right to waive the penalty, at its sole discretion.

Delivery & Installation:

The solution as per the required scope needs to be rolled out as per the delivery timelines mentioned. The phases of the Schedule are as follows:

PROJECT PHASES:

1. Project Plan
2. Delivery of Solution
3. User Acceptance Testing
4. Operationalization of Solution
5. Solution Review

1. PROJECT PLAN:

Successful Bidder shall submit the project plan for complete implementation of the solution as per the Scope of Work detailed in this RFP along with Solution Architecture, DFD, Monthly Project steering meetings and other required documents. This plan should be submitted for review and bank's acceptance within ten week after the issuance of PO to the successful bidder.

Bank shall issue a Project Plan signoff accepting the same. It shall be the responsibility of the successful bidder to submit and get the plan approved by the Bank authorities within the timelines mentioned above without any delay. Bank shall have the discretion to cancel the purchase order in lieu of delay in submission of the project plan.

2. PROJECT MILESTONES & DELIVERY

The schedule of delivery and activities towards implementation of the project is given below:

S.No	Milestone	Timeline
1	Issuance of PO	Week 0
2	Signing of Agreement	Within 3 Weeks from the Issuance of PO
3	Gap Analysis, Requirement Gathering, and BRD/SRS Sign-off	Within 8 Weeks from the Issuance of PO
4	Submission of Project Plan Documentation	Within 10 Weeks from the Issuance of PO
5	Supply, Delivery, Integrations, Installation & Implementation of Solution (UAT Delivery) as per SOW of RFP including migration of data. (Project milestone progress, as outlined in the submitted Project Plan, will be tracked and monitored by the Bank throughout the entire implementation lifecycle. To support this, fortnightly progress reports will be submitted to the Bank)	Within 30 Weeks from the Issuance of PO

6	UAT sign-off & Production Data Migration and data cleansing, if required	40 weeks from the Issuance of PO
7	Successful Go-Live of Solution	Within 3 Weeks from the UAT sign off by Bank
8	Deployment of solution on DR	Within 10 Weeks from go live at DC.

- Please note that maximum expected time frame of the project to Go-live is 43 weeks from the date of issuing purchase order.

Successful bidder is expected to provide detailed project implementation status on weekly basis and project steering meetings on monthly basis.

The bidder must strictly adhere to the project timeline schedule, as specified in the purchase contract executed between the Parties for performance of the obligations, arising out of the purchase contract and any delay in completion of the obligations by the bidder will enable Bank to resort to any or all of the following provided that the bidder is first given a 30 days" written cure period to remedy the breach/delay:

d. Claiming Liquidated Damages
e. Termination of the purchase agreement fully or partly and claim liquidated damages.
f. Forfeiting of Earnest Money Deposit / Invoking EMD Bank Guarantee/Performance Guarantee.

However, Bank will have the absolute right to charge penalty and/or liquidated damages as per Tender /contract without giving any cure period, at its sole discretion besides taking any other appropriate action.

EXTENSION OF DELIVERY SCHEDULE:

If, at any time during performance of the Contract, the Bidder should encounter conditions impeding timely delivery, the Bidder shall promptly notify the Bank in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Bidder's notice, the Bank shall evaluate the situation and may at its discretion may extend the Bidder's time for performance against suitable extension of the performance guarantee for delivery.

NON-DELIVERY:

Failure of the successful bidder to comply with the above delivery schedule, shall constitute sufficient grounds for the annulment of the award of contract and invocation of bank guarantee (delivery) besides taking appropriate action against the successful bidder including blacklisting such bidder from participating in future tenders.

3. USER ACCEPTANCE TESTING:

Successful bidder shall assist Bank in the User Acceptance Testing of the solution for the functionalities stated in this RFP document. Bank shall issue a UAT signoff on successful completion of the UAT for all channels. If the UAT fails or there is undue delay of the completion of the UAT due to reasons attributable to the successful bidder, Bank may at its own discretion cancel the purchase order and invoke the Bank guarantee for implementation.

4. OPERATIONALIZATION OF SOLUTION:

Bank shall issue Go Live Signoff on successful operationalization of the solution. If there is delay in the operationalization of the solution, Bank reserves the right to cancel the purchase order and invoke the Bank guarantee submitted for implementation.

5. REVIEW:

The solution shall remain under review for a period of 3 months from the date of issuance of Go Live Certificate as stated above. The Successful bidder shall be readily available during the review phase for troubleshooting and other support. During the review phase, Bank may request changes to the application as per its requirement and no extra costs shall accrue to the bank for the effort involved in the same. Bank shall issue final acceptance signoff at the end of the review phase.

Contract Period

The Contract shall be effective from date of acceptance of PO and shall be valid till (___date___), i.e 5 years from go live of the solution (___date___), unless or until terminated by Bank in accordance with the terms of this SLA. Thereafter the contract may further be extended if both parties wish to continue on the mutually agreed terms and conditions subject to satisfactory performance of the vendor.

Warranty & AMC

The Warranty for the solution should be for the period of 2 year from the date of successful go live. There after the AMC shall be started for period of 3 years. The contract can be further extended if both parties wish to continue on same terms and conditions.

During the warranty and AMC period, the Bidder will have to undertake comprehensive support of the Software Solution supplied by the Bidder and all new versions, releases, and updates for all standard software to be supplied to the Bank at no additional cost. During the warranty period, the Bidder shall maintain the Software Solution to comply with requirement defined in the RFP and the Bidder shall be responsible for all costs relating to maintenance (preventive and corrective), compliance of security requirements of the Software Solution. During the contract period, the vendor shall ensure that services of professionally qualified personnel are available for providing comprehensive maintenance support for the supplied Solution and its components as per the Bank's requirements. Comprehensive maintenance shall include, among other things, day to day maintenance of the Software Solution as per the Bank's requirements/policy, reloading of firmware/software, compliance to security requirements, etc. when required or in the event of system crash/malfunctioning, arranging and configuring facility as per the requirements of the Bank, fine tuning, system monitoring, log maintenance, etc. The Bidder shall provide services of an expert engineer at locations whenever required. In case of failure of Software Solution, the Bidder shall ensure that Software Solution is made operational to the full satisfaction of the Bank within the given timelines.

The vendor will warrant products against defects arising out of faulty design etc. during the specified support period. In the event of system break down or failures at any stage, protection available, which would include the following, shall be specified.

a. Diagnostics for identification of systems failures

b. Protection of data/ Configuration

c. Recovery/ restart facility

d. Backup of system software/ Configuration

Prompt support shall be made available as desired in this RFP during the support period at the locations as and when required by the Bank. The Bidder shall be agreeable for on-call/on-site support during peak weeks (last and first week of each month) and at the time of switching over from DC to DR and vice-versa. No extra charge shall be paid by the Bank for such needs, if any, during the support period. Bidder support staff should be well trained to effectively handle queries raised by the customers/employees of the Bank. Updated escalation matrix shall be made available to the Bank once in each quarter and each time the matrix gets changed.

Payment Terms

The Bidder must accept the payment terms proposed by the Bank as proposed in this section.

The terms of payments will be as follows against the achievement of various milestones

S.No	Milestone	License Cost	Implementation Cost
1	Gap Analysis, Requirement Gathering, and BRD/SRS Sign-off	20% of License Cost	-
2	Development, installation, configuration & UAT Delivery.	20% of License Cost	10% of Implementation Cost
3	UAT signoff, including migration of data.	20% of License Cost	20% of Implementation Cost

4	Go-live on Production setup. Along with Migrated data & necessary data cleansing.	30% of License Cost	40% of Implementation Cost
5	3 Months after Successful Go -live of all modules (Post Final acceptance sign-off)	10% of License Cost	20% of Implementation Cost
6	Successful implementation of solution at DR setup.		10% of Implementation Cost
7	AMC (post completion of warranty period)	Quarterly in arrears	
8	Manday Cost (For additional changes post Go-live for all modules)	Quarterly in arrears (As per actuals)	
9	Onsite Resource cost (L1 & L2)	Quarterly in arrears (As per actuals)	
10	DB/Middleware Cost if any (other than Oracle) including bundled support for 2-year warranty period	100% on Go-Live	
11	ATS cost for DB/Middleware if any other than Oracle (Year 3 to 5)	Yearly in advance	

The terms of payments will be as follows:

(i) Post Signing of Service Level Agreement (SLA) & (NDA) between Bank and Successful bidder.
(ii) No advance payment will be made on award of the contract.
(iii) All taxes, if any, applicable shall be deducted at source as per current rate while making any payment.
(iv) Payments will be withheld in case of Non-compliance of the terms and condition of this RFP.
(v) Invoices shall be raised after completing the milestone & confirmation/sign off of same by the Bank.
(vi) The payment will be made against the invoices duly signed by the Bank officials.
(vii) The Penalty, Liquidated Damage (LD) will be deducted subject to service level agreement of this RFP. Payment will be released after deducting the applicable penalties i.e., SLA, LD, etc., if any.
(viii)Post Successful Completion of Onboarding assessment by the bank.

Assignment

The Selected Bidder shall not assign, in whole or in part, the benefits or obligations of the contract to any other person. However, the Bank may assign any of its rights and obligations under the Contract to any of its affiliates without prior consent of Bidder.

Entire Agreement, Amendments, Waivers.

i. This Master Agreement and each Service Attachment contains the sole and entire agreement of the parties with respect to the entire subject matter hereof, and supersede any and all prior oral or written agreements, discussions, negotiations, commitment, understanding , marketing brochures, and sales correspondence and relating thereto. In entering into this Master Agreement and each Service Attachment each party acknowledges and agrees that it has not relied on any express or implied representation, or other assurance (whether negligently or innocently made), out in this Master Agreement and each Service Attachment. Each party waives all rights and remedies which, but for this Section, might otherwise be available to it in respect of any such representation (whether negligently or innocently made), warranty, collateral contract or other assurance.

ii. Neither this Master Agreement nor any Service Attachment may be modified or amended except in writing and signed by the parties.

iii. No waiver of any provisions of this Master Agreement or any Service Attachment and no consent to any default under this Master Agreement or any Service Attachment shall be effective unless the same shall be in writing and signed by or on behalf of the party against whom such waiver or consent is claimed. No course of dealing or failure of any party to strictly enforce any term, right or condition of this Master Agreement or any Service Attachment shall be construed as a waiver of such term, right or condition. Waiver by either party of any default other party shall not be deemed a waiver of any other default.

Severability

If any or more of the provisions contained herein shall for any reason be held to be unenforceable in any respect under law, such unenforceability shall not affect any other provision of this Master Agreement, but this Master Agreement shall be construed as if such unenforceable provisions or provisions had never been contained herein, provided that the removal of such offending term or provision does not materially alter the burdens or benefits of the parties under this Master Agreement or any Service Attachment.

Remedies Cumulative

Unless otherwise provided for under this Master Agreement or any Service Attachment, all rights of termination or cancellation, or other remedies set forth in this Master Agreement, are cumulative and are not intended to be exclusive of other remedies to which the injured party may be entitled by law or equity in case of any breach or threatened breach by the other party of any provision in this Master Agreement. Use of one or more remedies shall not bar use of any other remedy for the purpose of enforcing any provision of this Master Agreement.

Partnership / Collaboration / Subcontracting

The services offered shall be undertaken to be provided by the company directly and there shall not be any sub-contracting without prior written consent from the Bank. Bank will only discuss the solution with company's authorized representatives. The company authorized representatives shall mean their staff. In no circumstances any intermediary (which includes Liasoning Agents, marketing agents, commission agents etc.) should be involved during the course of project. No subletting of the contract by the will be allowed under any circumstances. Neither the subject matter of the contract nor any right arising out of the contract shall be transferred, assigned or delegated to any third party by Successful Bidder without prior written consent of the Bank

Confidentiality

All the Bank's product and process details, documents, data, applications, software, systems, papers, statements and business/customer information etc. (hereinafter referred to as 'Confidential Information') which may be communicated to or come to the knowledge of the Company and /or its employees during the course of discharging their obligations shall be treated as absolutely confidential and the Company and its employees shall keep the same secret and confidential and not disclose the same, in whole or in part to any third party nor shall use or allow to be used any information other than as may be necessary for the due performance by the Company of its obligations. The Company shall indemnify and keep Bank indemnified safe and harmless at all times against all or any consequences arising out of any breach of this undertaking regarding Confidential Information by the Company and/or its employees and shall immediately reimburse and pay to the Bank on demand all damages, loss, cost, expenses or any charges that Bank may sustain suffer, incur or pay in connection therewith.

It is clarified that "Confidential Information" includes any and all information that is or has been received by the Company (Receiving Party) from the Bank (Disclosing Party) and that (a) relates to the Disclosing Party and (b) is designated by the Disclosing Party as being confidential or is disclosed in circumstances where the Receiving Party would reasonably understand that the disclosed information would be confidential (c) is prepared or performed by or on behalf of the Disclosing Party by its employees, officers, directors, agent, representatives or consultants.

In maintaining confidentiality, the Receiving Party on receiving the confidential information and material agrees and warrants that it shall take at least the same degree of care in safeguarding such confidential information and materials as it takes for its own confidential information of like importance and such degree of care shall be at least, that which is reasonably calculated to prevent any inadvertent disclosure. The Receiving Party shall also, keep the confidential information and confidential materials and any copies thereof secure and in such a way so as to prevent unauthorized access by any third Party.

The Receiving Party, who receives the confidential information and the materials, agrees that on receipt of a written demand from the Disclosing Party, they will immediately return all written confidential information and materials and all copies thereof provided to and which is in Receiving Party's possession or under its custody and control.

The Receiving Party to the extent practicable shall immediately destroy all analysis, compilation, notes studies memoranda or other documents prepared by it which contain, reflect or are derived from confidential information relating to the Disclosing Party AND shall also immediately expunge any confidential information, word processor or other device in its possession or under its custody & control, where after it shall furnish a Certificate signed by the Authorized person confirming that to the best of his/her knowledge, information and belief, having made all proper enquiries, the requirement of confidentiality aspect has been complied with.

The restrictions mentioned hereinabove shall not apply to:-

(a) any information that publicly available at the time of its disclosure; or any information which is independently developed by the Receiving Party or acquired from a third party to the extent it is acquired with the valid right to disclose the same; or
(b) any disclosure required by law or by any court of competent jurisdiction, the rules and regulations of any recognized stock exchange or any enquiry or investigation by any government, statutory or regulatory body which is lawfully entitled to require any such disclosure provided that, so far as it is lawful and practical to do so prior to such disclosures, the Receiving Party shall promptly notify the Disclosing Party of such requirement with a view to providing the Disclosing Party an opportunity to obtain a protective order or to contest the disclosure or otherwise agree to the timing and content of such disclosure.

The confidential information and material and all copies thereof, in whatsoever form shall at all the times remain the property of the Disclosing Party and disclosure hereunder shall not confer on the Receiving Party any rights whatsoever beyond those contained in this document. The confidentiality obligations shall be observed by the Company during the term of this Agreement and thereafter and shall survive the expiry or termination of this Agreement between the Bank and Company.

The Company understands and agrees that any use or dissemination of information in violation of this Confidentiality Clause will cause BANK irreparable harm, may leave BANK with no adequate remedy at law and as such the Bank is entitled to proper indemnification for the loss caused by the Company. Further the BANK is entitled to seek to injunctive relief besides other remedies available to it under law and this Agreement.

Information Security:

a. The Successful Bidder and its personnel shall not carry any written material, layout, diagrams, floppy diskettes, hard disk, flash / pen drives, storage tapes or any other media out of J&K Bank’s premises without written permission from J&K Bank.

b. The Successful Bidder’s personnel shall follow J&K Bank’s information security policy and instructions in this regard.

c. The Successful Bidder acknowledges that J&K Bank 's business data and other proprietary information or materials, whether developed by J&K Bank or being used by J&K Bank pursuant to a license agreement with a third party (the foregoing collectively referred to herein as “proprietary information”) are confidential and proprietary to J&K Bank; and the Successful Bidder agrees to use reasonable care to safeguard the proprietary information and to prevent the unauthorized use or disclosure thereof, which care shall not be less than that used by Successful Bidder to protect its own proprietary information. Successful Bidder recognizes that the goodwill of J&K Bank depends, among other things, upon the Successful Bidder keeping such proprietary information confidential and that unauthorized disclosure of the same by Successful Bidder could damage J&K Bank. By reason of Successful Bidder’s duties and obligations hereunder, Successful Bidder may come into possession of such proprietary information, even though the Successful Bidder does not take any direct part in or furnish the Service(s) performed for the creation of said proprietary information and shall limit access thereto to employees with a need to such access to perform the Services required by the Contract/Agreement. Successful Bidder shall use such information only for the purpose of performing the Service(s) under the Contract/Agreement.

d. Successful Bidder shall, upon termination of the Contract/Agreement for any reason, or upon demand by J&K Bank, whichever is earliest, return any and all information provided to Successful Bidder by J&K Bank, including any copies or reproductions, both hardcopy and electronic.

e. That the Successful Bidder and each of its subsidiaries have taken all technical and organizational measures necessary to protect the information technology systems and Data used in connection with the operation of the Successful Bidder’s and its subsidiaries’ businesses. Without limiting the foregoing, the Successful Bidder and its subsidiaries have used reasonable efforts to establish and maintain, and have established, maintained, implemented and complied with, reasonable information technology, information security, cyber security and data protection controls, policies and procedures, including oversight, access controls, encryption, technological and physical safeguards and business continuity/disaster recovery and security plans that are designed to protect against and prevent breach, destruction, loss, unauthorized distribution, use, access, disablement, misappropriation or modification, or other compromise or misuse of or relating to any information technology system or Data used in connection with the operation of the Successful Bidder’s and its subsidiaries’ businesses.

f. The Successful Bidder shall certify that to the knowledge of the Successful Bidder, there has been no security breach or other compromise of or relating to any information technology and computer systems, networks, hardware, software, data, or equipment owned by the Successful Bidder or its subsidiaries or of any data of the Successful Bidder’s, the Operating Partnership’s or the Subsidiaries’ respective customers, employees, suppliers, vendors that they maintain or that, to their knowledge, any third party maintains on their behalf (collectively, "IT Systems and Data") that had, or would reasonably be expected to have had, individually or in the aggregate, a Material Adverse Effect, and

g. That the Successful Bidder has not been notified of, and has no knowledge of any event or condition that would reasonably be expected to result in, any security breach or other compromise to its IT Systems and Data;

h. That the Successful Bidder is presently in compliance with all applicable laws, statutes, rules or regulations relating to the privacy and security of IT Systems and Data and to the protection of such IT Systems and Data from unauthorized use, access, misappropriation or modification. Besides the Successful Bidder confirms the compliance with Banks Supplier Security Policy.

i. That the Successful Bidder has implemented backup and disaster recovery technology consistent with generally accepted industry standards and practices.

j. That the Successful Bidder and its subsidiaries IT Assets and equipment, computers, Systems, Software's, Networks, hardware, websites, applications and Databases (Collectively called IT systems) are adequate for, and operate and perform in all material respects as required in connection with the operation of business of the Successful Bidder and its subsidiaries as currently conducted, free and clear of all material bugs, errors, defects, Trojan horses, time bombs, malware and other corruptants.

k. That the Successful Bidder shall be responsible for establishing and maintaining an information security program that is designed to:

- Ensure the security and confidentiality of Customer Data, Protect against any anticipated threats or hazards to the security or integrity of Customer Data, and
- That the Successful Bidder will notify Customer of breaches in Successful Bidder's security that materially affect Customer or Customer's customers. Either party may change its security procedures from time to time as commercially reasonable to address operations risks and concerns in compliance with the requirements of this section.

l. The Successful Bidder shall establish, employ and at all times maintain physical, technical and administrative security safeguards and procedures sufficient to prevent any unauthorized processing of Personal Data and/or use, access, copying, exhibition, transmission or removal of Bank's Confidential Information from Companies facilities. Successful Bidder shall promptly provide Bank with written descriptions of such procedures and policies upon request. Bank shall have the right, upon reasonable prior written notice to Successful Bidder and during normal business hours, to conduct on-site security audits or otherwise inspect Companies facilities to confirm compliance with such security requirements.

m. That Successful Bidder shall establish and maintain environmental, safety and facility procedures, data security procedures and other safeguards against the destruction, corruption, loss or alteration of the Client Data, and to prevent access, intrusion, alteration or other interference by any unauthorized third parties of the same, that are no less rigorous than those maintained by Successful Bidder for its own information or the information of its customers of a similar nature.

n. That the Successful Bidder shall perform, at its own expense, a security audit no less frequently than annually. This audit shall test the compliance with the agreed-upon security standards and procedures. If the audit shows any matter that may adversely affect Bank, Successful Bidder shall disclose such matter to Bank and provide a detailed plan to remedy such matter. If the audit does not show any matter that may adversely affect Bank, Successful Bidder shall provide the audit or a reasonable summary thereof to Bank. Any such summary may be limited to the extent necessary to avoid a breach of Successful Bidder's security by virtue of providing such summary.

o. That Bank may use a third party or its own internal staff for an independent audit or to monitor the Successful Bidder's audit. If Bank chooses to conduct its own security audit, such audit shall be at its own expense. Successful Bidder shall promptly correct any deficiency found in a security audit.

p. That after providing 30 days prior notice to Successful Bidder, Bank shall have the right to conduct a security audit during normal business hours to ensure compliance with the foregoing security provisions no more frequently than once per year. Notwithstanding the foregoing, if Bank has a good faith belief that there may have been a material breach of the agreed security protections, Bank shall meet with Successful Bidder to discuss the perceived breach and attempt to resolve the matter as soon as reasonably possible. If the matter cannot be resolved within a thirty (30) day period, the parties may initiate an audit to be conducted and completed within thirty (30) days thereafter. A report of the audit findings shall be issued within such thirty (30) day period, or as soon thereafter as is practicable. Such audit shall be conducted by Successful Bidder's auditors, or the successors to their role in the event of a corporate reorganization, at Successful Bidder's cost.

q. Successful Bidders are liable for not meeting the security standards or desired security aspects of all the ICT resources as per Bank's IT/Information Security / Cyber Security Policy. The IT /Information Security/ Cyber Security Policy will be shared with successful Bidder. Successful Bidders should ensure Data Security and protection of facilities/application managed by them.

r. The deputed persons should aware about Bank's IT/IS/Cyber security policy and have to maintain the utmost secrecy & confidentiality of the bank's data including process performed at the Bank premises. At any time, if it comes to the notice of the bank that data has been compromised / disclosed/ misused/misappropriated then bank would take suitable action as deemed fit and selected Successful Bidder would be required to compensate the bank to the fullest extent of loss incurred by the bank.

s. The Bank shall evaluate, assess, approve, review, control and monitor the risks and materiality of vendor/outsourcing activities and Successful Bidder shall ensure to support baseline system security configuration standards. The Bank shall also conduct effective due diligence, oversight and management of third-party vendors/Successful Bidders & partners.

t. Successful Bidder criticality assessment shall be conducted for all partners & vendors.

Appropriate management and assurance on security risks in outsources and partner arrangements shall be ensured.

Termination of Contract

If the Termination is on account of failure of the Successful Bidder to perform the obligations under this agreement, the Bank shall have the right to invoke the Performance Bank Guarantee(s) given by the selected bidder.

The Bank will be entitled to terminate this Contract, on the happening of any one or more of the following:

For Convenience: BANK by written notice sent to the Company may terminate the contract in whole or in part at any time for its convenience giving 90 days prior notice.

In the event of termination of the Agreement for the Bank's convenience, Successful Bidder shall be entitled to receive payment for the Services rendered (delivered) up to the effective date of termination.
For Insolvency: BANK may at any time terminate the contract by giving written notice to the Company, if the Company becomes bankrupt or insolvent.

For Non-performance: BANK shall have the right to terminate this agreement or/and to cancel the entire or unexecuted part of the related Purchase Order forthwith by a written notice in the event the company fails to deliver and/or install the solution within the stipulated time schedule or any extension, if any, thereof agreed by the Bank in writing in its sole discretion OR the Company fails to maintain the service levels prescribed by BANK in scope of work OR fails to discharge or commits breach of any of its obligations under this Agreement.

In the event of termination, the company shall compensate the Bank to the extent of loss suffered by the Bank on account of such termination provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to BANK. The Bank shall inter-alia have a right to invoke the Performance Bank Guarantee submitted by the Company in regard to the supply and maintenance etc. of the solution for realizing the payments due to it under this agreement including penalties, losses etc.

Indemnity

The Successful bidder shall indemnify and hold the Bank harmless from and against all claims, losses, costs, damages, expenses, action suits and other proceedings (including attorney fees), relating to or resulting from:-

i. Intellectual Property infringement or misappropriation of any third-party trade secrets or infringement of any patent, trademarks, copyrights etc. or such other statutory infringements in respect of all components provided to fulfil the scope of this project.
ii. Claims made by the employees who are deployed by the Successful bidder.

iii. Breach of confidentiality obligations by the Successful bidder,
iv. Negligence (including but not limited to any acts or omissions of the Successful bidder, its officers, principals or employees) or misconduct attributable to the Successful bidder or any of the employees deployed for the purpose of any or all of its obligations,
v. Any loss or damage arising out of loss of data;
vi. Bonafide use of deliverables and or services provided by the successful bidder.
vii. Non-compliance by the Successful bidder with applicable Laws/Governmental/Regulatory Requirements.

The Successful bidder shall be responsible for any loss of data, loss of life etc. due to acts of its representatives, and not just arising out of negligence or misconduct, as such liabilities pose significant risk.

It is hereby agreed that the above said indemnity obligations shall apply notwithstanding anything to the contrary contained in this Tender document and subsequent Agreement and shall survive the termination of the agreement for any reason whatsoever. The Successful bidder will have sole control of its defense and all related settlement negotiations

Right to Audit

Bank reserves the right of regular and continuous monitoring of the Services provided by the Service Provider and shall conduct an audit/ ongoing audit of the services.

The Selected Bidder shall be subject to annual audit by internal/ external Auditors appointed by the Bank/ inspecting official from the Reserve Bank of India or any regulatory authority or the persons authorized by it , covering the risk parameters finalized by the Bank/ such auditors in the areas of products (IT hardware/ Software) and services etc. provided to the Bank and Successful Bidder is required to submit such certification by such Auditors to the Bank.

Bidder should allow the J&K Bank or persons authorized by it to access Bank documents, records or transactions or any other information given to, stored or processed by Bidder within a reasonable time failing which Bidder will be liable to pay any charges/ penalty levied by the Bank without prejudice to the other rights of the Bank. Bidder should allow the J&K Bank to conduct audits or inspection of its Books and account with regard to Bank’s documents by one or more officials or employees or other persons duly authorized by the Bank.

Bank shall ensure audits are done annually or at any frequency mandated by regulator or internal board approved policies of the bank with at least a prior notice of 30 days, bank shall not engage any competitor to conduct audit of Service Provider and all reasonable measures related to confidentiality, non-disruption of Service Provider’s business operations shall be exercised by the bank.

Limitation of Liability

Neither Party shall be liable for any indirect damages (including, without limitation, loss of revenue, profits, and business) under this agreement and the aggregate liability of Successful Bidder, under this agreement shall not exceed total contract value.

Exit Clause

The Bank reserves the right to cancel the contract in the event of happening one or more of the following conditions:

1. Failure of the Successful Bidder to accept the contract and furnish the Performance Bank Guarantee within 3 weeks from receipt of purchase contract.
2. Delay in delivery beyond the specified period.
3. Delay in completing implementation/customization and acceptance tests/ checks beyond the specified periods.
4. Serious discrepancy in functionality to be provided or the performance levels which have an impact on the functioning of the solution.
5. In addition to the cancellation of contract, Bank reserves the right to appropriate the damages through encashment of Bid Security /Performance Guarantee given by The Successful Bidder. Bank reserves right to exit at any time after giving notice period of one month during the contract period.

Exit Management Plan and Assistance

6 (six) months prior to expiry or within 10 (ten) Working Days of issue of notice of termination, Service Provider shall assist the Bank to develop a viable exit management plan which shall contain details of the tasks and responsibilities required to enable the transition from the Services provided under this Agreement to the Replacement Service Provider or the Bank, as the case may be

The exit transition plan shall be in a format to be agreed with the Bank and shall include, but not be limited to:

- A timetable of events.
- Resources.
- Assumptions.
- Activities.
- Responsibilities; and
- Risks.

Transfer of Data

In the event of expiry or termination of this Agreement Service Provider shall cease to use the Bank's Data and, at the request of the Bank, shall destroy all such copies of the Bank's Data then in its possession to the extent specified by the Bank.

Except where, pursuant to paragraph above, the Bank has instructed Service Provider to destroy such Bank's Data as is held and controlled by Service Provider, 1 (one) months prior to expiry or within 1 (one) month of termination of this Agreement, Service Provider shall deliver to the Bank: An inventory of the Bank's Data held and controlled by Service Provider, plus any other data required to support the Services; and/or a draft plan for the transfer of the Bank's Data held and controlled by Service Provider and any other available data to be transferred.

Force Majeure

i. The Selected Company shall not be liable for forfeiture of its performance security, Liquidated damages or termination for default, if any to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of Force Majeure.

ii. For purposes of this Clause, "Force Majeure" means an event explicitly beyond the reasonable control of the Contractor and not involving the contractor's fault or negligence and not foreseeable. Such events may be due to or as a result of or caused by act of God, wars, insurrections, riots, earth quake and fire, revolutions, civil commotion, floods, epidemics, pandemics, quarantine restrictions, trade embargos, declared general strikes in relevant industries, events not foreseeable but does not include any fault or negligence or carelessness on the part of the parties, resulting in such a situation. In the event of any such intervening Force Majeure, either party shall notify the other in writing of such circumstances or the cause thereof immediately within five calendar days.

iii. Unless otherwise directed by the Bank in writing, the selected bidder r shall continue to perform its obligations under the Contract as far as is reasonably practical and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

iv. In such a case the time for performance shall be extended by a period(s) not less than duration of such delay. If the duration of delay continues beyond a period of three months, the Bank and The Successful Bidder shall hold consultations in an endeavor to find a solution to the problem.

v. Notwithstanding above, the decision of the Bank shall be final and binding on the successful Company regarding termination of contract or otherwise

Intellectual Property Rights

1.1 For any technology / software / product used by Company for performing Services for the Bank as part of this Agreement, Company shall have right to use as well as right to license such technology/ software / product. The Bank shall not be liable for any license or IPR violation on the part of Company.

1.2 Without the Bank's prior written approval, Company will not, in performing the Services, use or incorporate link to or call or depend in any way upon, any software or other intellectual property that is subject to an Open Source or Copy left license or any other agreement that may give rise to any third-party claims or to limit the Bank's rights under this Agreement.

1.3 Company shall, at its own expenses without any limitation, indemnify and keep fully and effectively indemnified the Bank against all costs, claims, damages, demands, expenses and liabilities whatsoever nature arising out of or in connection with all claims of infringement of Intellectual Property Right, including patent, trademark, copyright, trade secret or industrial design rights of any third party arising from the Services or use of the technology / software / products or any part thereof in India or abroad.

1.4 The Bank will give (a) notice to Company of any such claim without delay/provide reasonable assistance to Company in disposing of the claim; (b) sole authority to defend and settle such claim and; (c) will at no time admit to any liability for or express any intent to settle the claim provided that (i) Company shall not partially settle any such claim without the written consent of the Bank, unless such settlement releases the Bank fully from such claim, (ii) Company shall promptly provide the Bank with copies of all pleadings or similar documents relating to any such claim, (iii) Company shall consult with the Bank with respect to the defence and settlement of any such claim, and (iv) in any litigation to which the Bank is also a party, the Bank shall be entitled to be separately represented at its own expenses Of successful bidder

1.5 Company shall have no obligations with respect to any infringement claims to the extent that the infringement claim arises or results from: (i) Company's compliance with the Bank's specific technical designs or instructions (except where Company knew or should have known that such compliance was likely to result in an Infringement Claim and Company did not inform the Bank of the same); or (ii) any unauthorized modification or alteration of the deliverable (if any) by the Bank.

Corrupt and Fraudulent practice.

i. It is required that Company observe the highest standard of ethics during the procurement and execution of such contracts and not to indulge in any corrupt and fraudulent practice.
ii. "Corrupt Practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of an official in the procurement process or in contract execution.
iii. "Fraudulent Practice" means a misrepresentation of facts in order to influence a procurement process or the execution of contract to the detriment of the Bank and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Bank of the benefits of free and open competition.

iv. The Bank reserves the right to reject a proposal for award if it determines that the Company recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
v. The Bank reserves the right to declare a bidder ineligible, either indefinitely or for a stated period of time, to be awarded a contract if at any time it becomes known that the firm has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

Governing Laws and Dispute Resolution

This agreement shall be governed in accordance with the Laws of UT of J&K read with laws of India so far as they are applicable to the UT of J&K for the time being and will be subject to the exclusive jurisdiction of Courts at Srinagar with exclusion of all other Courts. The Bank and the Successful Bidder shall make every effort to resolve any disagreement or dispute amicably, arising in connection with the Contract, by direct and informal negotiation between the designated Officer of the Bank and designated representative of the Successful Bidder for the project of **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution .** If designated Officer of the Bank and representative of the Successful Bidder are unable to resolve the dispute within reasonable period, which in any case shall not exceed 30 days they shall immediately escalate the dispute to the senior authorized personnel designated by the Bank and the Successful Bidder respectively. If even after elapse of reasonable period, which in any case shall not exceed 30 days, the senior authorized personnel designated by the Bank and the Successful Bidder are unable to resolve the dispute amicably OR any party fails to designate its officer/representative/ senior authorized personnel within days from the date of request in writing for the same by the other party for amicable settlement of dispute, the dispute shall be referred to a sole arbitrator to be appointed by Bank. The Arbitration and Conciliation Act, 1996 will be applicable to the arbitration proceeding and the venue of the arbitration shall be at Srinagar. The language of the arbitration proceedings shall be in English. The award of the arbitrator shall be final and binding. The courts at Srinagar shall have exclusive jurisdiction at Srinagar.

Notices

Unless otherwise provided herein, all notices or other communications under or in connection with this Agreement shall be given in writing and may be sent by personal delivery or by post or courier or facsimile or e- mail to the address below, and shall be deemed to be effective if sent by personal delivery, when delivered, if sent by post, three days after being deposited in the post and if sent by courier, two days after being deposited with the courier, and if sent by facsimile, when sent (on receipt of a confirmation to the correct facsimile number) and if sent by e-mail (on receipt of a confirmation to the correct email)

Following shall be address of BANK for notice purpose:

General Manager (S&IT), J&K Bank Ltd,
Technology & Development Division,
Corporate Headquarters, M.A. Road, Srinagar, 190001 Jammu & Kashmir (India)

Following shall be address of Company for notice purpose:
____
____
____

Other Terms and Conditions

i. If any provision of this agreement or any document, if any, delivered in connection with this agreement is partially or completely invalid or unenforceable in any jurisdiction, then that provision shall be ineffective in that jurisdiction to the extent of its invalidity or unenforceability. However, the invalidity or unenforceability of such provision shall not affect the validity or enforceability of any other provision of this agreement, all of which shall be construed and enforced as if such invalid or unenforceable provision was/were omitted, nor shall the invalidity or unenforceability of that provision in one jurisdiction affect its validity or enforceability in any other jurisdiction. The invalid or unenforceable provision will be replaced in writing by a mutually acceptable provision, which being valid and enforceable comes closest to the intention of the Parties underlying the invalid or unenforceable provision.

ii. Bank reserves the right to conduct an audit/ ongoing audit of the services provided by Company. The Company agrees and undertakes to allow the Bank or persons authorized by it to access Bank documents, records or transactions or any other information given to, stored or processed by the Company within a reasonable time failing which Bidder will be liable to pay any charges/ penalty levied by the Bank without prejudice to the other rights of the Bank. The Company shall allow the Bank to conduct audits or inspection of its Books and account with regard to Bank's documents by one or more officials or employees or other persons duly authorized by the Bank.

iii. The company, either by itself or through its group companies or Associates, shall not use the name and/or trademark/logo of Bank, in any sales or marketing publication or advertisement, or in any other manner.

iv. Any addition, alteration, amendment, of this Agreement shall be in writing, signed by both the parties.

v. The invalidity or unenforceability for any reason of any covenant of this Agreement shall not prejudice or affect the validity or enforceability of its other covenants. The invalid or unenforceable provision will be replaced by a mutually acceptable provision, which being valid and enforceable comes closest to the intention and economic positions of the Parties underlying the invalid or unenforceable provision.

vi. Each party warrants that it has full power and authority to enter into and perform this Agreement, the respective executants are duly empowered and/or authorized to execute this Agreement, and performance of this Agreement will not result in breach of any provision of the Memorandum and Articles of Association or equivalent constitutional documents of the either party or any breach of any order, judgment or agreement by which the party is bound.

vii. The terms and conditions laid down in the RFP shall be read and construed forming part of this service level agreement. In an event of contradiction on any term or condition between RFP and service level agreement, the terms and conditions of service level agreement shall prevail.

In witness whereof the parties have set their hands on this agreement in duplicate through their authorized signatories on the day, month and year first herein above mentioned.

Agreed and signed on behalf of	Agreed and signed on behalf of
Company's Authorized Signatory	J&K Bank Limited
Name..................................	Name..................................
Designation.......................	Designation.......................
Signature.......................	Signature ....
Witness (1):	Witness (1):
Name..................................	Name..................................
Designation.......................	Designation.......................
Signature.......................	Signature ....
Witness (2):	Witness (2):
Name..................................	Name..................................
Designation.......................	Designation.......................
Signature.......................	Signature ....

Annexure K: Undertaking

Bidder has to submit Undertaking on company letter head as per format given below

The General Manager
Strategy & IT
Corporate Headquarters
Jammu & Kashmir Bank M.A Road, Srinagar

Dear Sir,

Sub: RFP no: ___________ for Supply, installation and support of end-to-end Comprehensive Treasury Management Solution

Having examined the tender documents including all annexures the receipt of which is hereby duly acknowledged, we, the undersigned, offer **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** to Bank as mentioned in RFP document in conformity with the said tender documents in accordance with the Commercial bid and made part of this tender.

We understand that the RFP provides generic specifications about all the items and it has not been prepared by keeping in view any specific bidder.

We understand that the RFP floated by the Bank is a confidential document and we shall not disclose, reproduce, transmit or made available it to any other person.

We hereby undertake that supporting software/license supplied, if required will be licensed, legally obtained and with latest version.

We understand that the Bank is not bound to accept the offer either in part or in full and that the Bank has right to reject the RFP in full or in part without assigning any reasons whatsoever.

We have read, understood and accepted the terms/ conditions/ rules mentioned in the RFP, proposed to be followed by the Bank.

Until a formal contract is prepared and executed, this tender offer, together with the Bank's written acceptance thereof and the Bank's notification of award, shall constitute a binding contract between us.

We undertake that in competing for and if the award is made to us, in executing the subject Contract, we will strictly observe the laws against fraud and corruption in force in India and the UT of J&K including Prevention of Corruption Act 1988.

We have never been barred/black-listed by any regulatory / statutory authority in India.

We understand that the Bank is not bound to accept the lowest or any offer the Bank may receive.

We hereby undertake that all the components/parts/assembly/software used in the Networking Hardware shall be original new components / parts / assembly / software only, from respective

OEMs of the products and that no refurbished / duplicate / second hand components / Parts / Assembly / Software are being used or shall be used.

This Bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We enclose cost of RFP Rs.2,500/- (Two Thousand Five hundred Only) and EMD of Rs.60,00,000/- (Rupees Sixty lakh Only) in Bank Transfer/Demand Draft/Bank Guarantee favoring J&K Bank Ltd, towards cost of RFP/bid security, details of the same is as under

No. :

Date:

Name of Issuing Bank:

Dated at ____________this ____________day of __________2026

We certify that we have provided all the information requested by the Bank in the format requested for. We also understand that the Bank has the exclusive right to reject this offer in case the Bank is of the opinion that the required information is not provided or is provided in a different format. It is also confirmed that the information submitted is true to our knowledge and the Bank reserves the right to reject the offer if anything is found incorrect.

We agree to all terms & conditions of the RFP.

Place:

Seal and signature of The Bidder

Annexure L: Know Your Employee (KYE) Clause

Bidder has to submit Undertaking on company letter head as per format given below.

1. We on the behalf of ______________________ (name of the company) hereby confirm that all the resources (both on-site and off-site) working on the Bank's project ie**. Supply, installation and support of end-to-end Comprehensive Treasury Management Solution** have undergone KYE (Know Your Employee) process and all the required checks have been performed prior to employment of said employees as per our policy.
2. We confirm to defend and keep the bank indemnified against all loss, cost, damages, claim penalties expenses, legal liability because of non-compliance of KYE and of misconduct of the employee deployed by us to the Bank.
3. We further agree to submit the required supporting documents (Process of screening, Background verification report, police verification report, character certificate, ID card copy, Educational document, etc.) to Bank before deploying officials in Bank premises for **Supply, installation and support of end-to-end Comprehensive Treasury Management Solution**

Sign and seal of Competent Authority

Name of Competent Authority
Dated

Annexure M: OEM Authorization Form

Note: This letter of authority should be on the letterhead of the OEM and should be signed by a competent person representing the OEM.

To
The General Manager
Strategy & IT
Corporate Headquarters
Jammu & Kashmir Bank M.A Road, Srinagar

Dear Sir,

Sub: RFP no: ___________ Supply, installation and support of end-to-end Comprehensive Treasury Management Solution dated ______________

We ____who are established and reputed OEM of ___________________________ having office at_______________________________ do hereby authorize M/s _________________________________ (Name and address of Agent/Dealer) to offer their quotation, negotiate and conclude the contract with you against the above RFP.

We confirm that our business had a turnover exceeding Rs---------------- (Rupees -----) per annum in last three financial years.

We hereby extend our full guarantee and warranty in respect of the product as per terms and conditions of the RFP and the contract for the equipment and services offered against this RFP by the above firm.

In case the bidder i.e. M/s __________________________ is not able to perform the obligations as per RFP during the contract period (like if bidder ceases to exist from the IT Industry, stops services or support to the Bank, terminates contract due any reasons with Bank or due to any other reason), we will perform the said obligations, as per given scope of work of RFP, either directly or through mutually agreed any other authorized Partner of ours.

Yours faithfully,

(Name)

For and on behalf of

M/s____________________(Name of OEM)