Amendments – 1 to RFP

Sl No.	Section Details	Type	Existing Clause	Amended Clause
1	Page 44 , Point 10 under API gateway technical specifications	Amendment	API Manager shall provide the capability to define security policies. Security policies shall include parameters but not limited to API access control, usage quota, rate limit, circuit breaker etc.	API Manager shall provide the capability to define security policies. Security policies shall include parameters but not limited to API access control, usage quota, rate limit etc.
2	Page 45 , Point 20 under API gateway technical specifications	Amendment	API Manager should provide basic transformation capabilities (e.g., protocol/message transformation, enrichment, routing etc.). API Manager should support conversion to/from multiple formats but not limited ISO 8583, JSON, XML, SWIFT MT, SWIFT MX etc.	API Manager should provide basic transformation capabilities (e.g., protocol/message transformation, enrichment, routing etc.). API Manager should support conversion to/from multiple formats but not limited ISO 8583, JSON, XML etc.
3	Page 34, Point 12 under Production Support Scope of Work	Amendment	Integration with Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank	Integration with Database Activity Monitoring, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank
4	Page 40, Point 41 under Technical Specifications of ESB	Amendment	The ESB should have wire-level compatibility that allows a mix of brokers and clients to connect, allowing nearly anything to seamlessly interact. It should support for Java's Message, Service (JMS) 1.1, Transmission Control Protocol (TCP), Secure Sockets Layer (SSL), User Datagram Protocol (UDP), Streaming Text Oriented Messaging Protocol (STOMP), MQ Telemetry Transport (MQTT), Advanced Message Queueing Protocol (AMQP), multicast transport protocols and other standards	The ESB should have wire-level compatibility that allows a mix of brokers and clients to connect, allowing nearly anything to seamlessly interact. It should support for Java's Message, Service (JMS) 1.1, Transmission Control Protocol (TCP), Secure Sockets Layer (SSL), User Datagram Protocol (UDP), MQ Telemetry Transport (MQTT), Advanced Message Queueing Protocol (AMQP), multicast transport protocols and other standards
5	Page 41, Point 59 under Technical Specifications of ESB	Amendment	ESB shall support Web Services Standards like WS-Security, WS-RM etc	ESB shall support Web Services Standards like WS-Security etc

6	Page 52, Point 1 under General Technical Requirements	Amendment	Tamilnadu Grama Bank will provide either physical bare metal servers not more than 4 physical hosts for the total solution for each site with individual cores not exceeding 64 cores or ESXI based virtual infrastructure or both physical(with the above mentioned count and configuration) and virtual. Sapthagiri Grameena Bank and Puthuvai bharathiar grameena bank will be providing individual ESXI based virtual infrastructure for hosting the proposed solution.	Tamil Nadu Grama Bank will provide either physical bare metal servers not more than 3 physical hosts for the total solution for each site with individual cores not exceeding 64 cores or ESXI based virtual infrastructure or both physical(with the above mentioned count and configuration) and virtual. Sapthagiri Grameena Bank and Puthuvai bharathiar grameena bank will be providing individual ESXI based virtual infrastructure for hosting the proposed solution. For ESXI hypervisor based virtual infrastructure , the configuration of individual VMs will be maximum of 16vCPUs. Number of VMs, RAM and storage requirement will be provided as per the requirement for the proposed solution
7	Page 53, Point 10 under General Technical Requirements	Amendment	Load Balancing needs to be done by using a hardware load balancer	Load Balancing needs to be done by using a software load balancer and the same has to be factored and provided by the bidder as part of the proposed solution. Bank will provide hardware load balancer in future and the same has to be integrated with the solution at no extra cost during the contract period.
8	Page 53, Point 12 under General Technical Requirements	Amendment	The development environment has to be sized separately. The developer tools/IDE has to be sized considering atleast 10 concurrent developers for TNGB, 5 concurrent developers for SGB and 3 concurrent developers for PBGB.	The development environment has to be sized separately. The developer tools/IDE has to be sized considering atleast 4 concurrent developers for TNGB, 2 concurrent developers for SGB and 2 concurrent developers for PBGB.

9	Page 53, Point 9 under General Technical Requirements	Amendment	All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution	All the runtime components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution. For Non-production(UAT and development) environment high availability need not be factored in case of virtual infrastructure and in case of physical infrastructure for the above two environments, a minimum of 2 hosts have to be allocated to ensure the high availability at the infrastructure level
10	Page 53, Point 7 under General Technical Requirements	Amendment	Each bank will be having dedicated production and non-production environments	Each bank will have dedicated 3 environments namely production, UAT and development environment. Production environment and non production environment(UAT and development) has to be separated at physical, virtual and cluster level
11	Page 53, Point 4 under General Technical	Amendment	The average message size expected is 150KB.	The average message size expected is 50KB.
12	Page 53, Point 5 under General Technical Requirements	Amendment	The maximum total TPS expected to reach within the contract period at ESB level in non-production environment(UAT) for each banks are TNGB – 10TPS, SGB – 5 TPS, PBGB –4 TPS. The corresponding sizing of the non-production internal and external api gateway has to be derived from the above information	The maximum total TPS expected to reach within the contract period at ESB level in non-production environment(UAT and development) for each banks are TNGB – 5TPS, SGB – 3 TPS, PBGB –2 TPS. The corresponding sizing of the non-production internal and external api gateway has to be derived from the above information

13	Page 52, Point 2 under General Technical Requirements	Amendment	Any OS/ database/ web servers/ application server/ development tools/ caching servers/ proxy servers/ runtimes or any other licenses that needs to be included for complying the required technical specifications has to be quoted under the miscellaneous line items in total and the breakup of the same has to be given in the miscellaneous table breakup format individually for each bank	Any OS/ database/ web servers/ application server/ development tools/ caching servers/ proxy servers/ runtimes or any other licenses that needs to be included for complying the required technical specifications has to be quoted under the miscellaneous line items in total and the breakup of the same has to be given in the miscellaneous table breakup format individually for each bank. For SGB and PBGB , windows server os(2022) and redhat os will be provided by the bank.
14	Page 32, under 1. Scope of work -> a) Implementation	Amendment	The bidder should follow all pertinent information reliability and security standards during implementation, configuration and support. The implementation has to be verified and certified by the OEM	The bidder/OEM should follow all pertinent information reliability and security standards during implementation, configuration and support. The implementation has to be done by OEM and certified by the OEM
15	Page 54	Amendment	Total Solution Cost (H) = A+B+C+D+E+F+G	Total Solution Cost (H) = A+B+C+G
16	Page 54 under Table Common Prices	Amendment	Developer Resource / Month Production Support 24/7 1 Person per shift L1 range/month	Developer Resource Production Support 24/7 1 Person per shift L1 range
17	Page 9, under 3. Prequalification criteria of the bidder -> point 5	Amendment	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	The bidder should have implemented and running/maintaining any ESB/integration solution in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches or have 200 TPS running traffic in the past 3 years before the bid opening date in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India. Certificate from the client or copy of purchase order should be submitted along with the technical bid.

18	Page 36, under 2. Delivery and Implementation timelines -	Amendment	Software licenses need to be delivered within one week from the date of Purchase Order	Software licenses need to be delivered within two weeks from the date of Purchase Order
19	Page 36, under 2. Delivery and Implementation timelines - > Implementation	Amendment	Implementation and Configuration need to be completed within two weeks from the date of Purchase Order	Implementation and Configuration need to be completed within four weeks from the date of Purchase Order
20	Page 36, under 2. Delivery and Implementation timelines - > Deployment of Developers	Amendment	Developers need to be deployed on site within three weeks from the date of Purchase Order	Developers need to be deployed on site within four weeks from the date of Purchase Order
21	Page 36, under 2. Delivery and Implementation timelines - > Deployment of Production Support Resources	Amendment	Production Support Developers need to be deployed on site within two weeks from the date of Purchase Order	Production Support Developers need to be deployed on site within four weeks from the date of Purchase Order
22	Page 49,Under API gateway technical specifications, point 82	Amendment	High performance/in-memory Database should be provided as part of overall solution which supports distributed in-memory storage, geo-replication if required for storing any config and analytics data should be included as well. Highest edition/level of license and highest level of enterprise support for the concerned database should be included as part of the solution.	High performance/in-memory Database should be provided as part of overall solution which supports distributed in-memory storage, geo-replication and atomic operations. Highest edition/level of license and highest level of enterprise support for the concerned database should be included as part of the solution. The said in memory database will be used for generating running sequencing numbers of atleast 10 digit length and storing atleast 50 digit alphanumeric values. The sequence number wil be generated for every request coming through the ESB. The 50 digit alphanumeric value will also be stored for every request coming through the ESB. All the generated sequence numbers has to be retained for a day. The sequence numbers will be checked for duplicacy or availability before regeneration.

23	Page 52, under General Technical Requirements, point 3	Amendment	While the initial sizing will be for TNGB 50 TPS, SGB-30 TPS and PBGB 15 TPS, the maximum total TPS expected to reach within the contract period at ESB level in production environment for each banks are TNGB – 100 TPS, SGB – 60 TPS, PBGB – 30 TPS. Among this 100% of the above TPS will be through internal api gateway and 20% through external api gateway. Hence the TPS and the corresponding sizing of the internal and external api gateway has to be derived from the above information. Sizing and number of trial and actual licences to be considered for full contract period.	The maximum total TPS expected to reach within the contract period at ESB level in production environment for each banks are TNGB – 50 TPS, SGB – 30 TPS, PBGB – 20 TPS. Among this 100% of the above TPS will be through internal api gateway and 20% through external api gateway. Hence the TPS and the corresponding sizing of the internal and external api gateway has to be derived from the above information. Sizing has to be done for the maximum TPS. In addition bidder has to supply any component which is part of the proposed solution for any additional requirement other than mentioned in the RFP at the contracted price during the contract period at bank's request
24	Page 53, under General Technical Requirements, point 18	Addition		No open source or community edition software should be used as part of the proposed solution. All the components should be supported by OEM and direct back to back support should be availed from the OEM for all the components. No third party support/distributor support is allowed for any of the components
25	Page 53, under General Technical Requirements, point 19	Addition		The architecture should have physical/cluster level separation for DMZ and internal zones. Any component as part of the proposed solution should be factored separately for Internal and DMZ zone. API gateway should be separate for DMZ and internet zone.
26	Page 54, Section -5 Commercial Bid (to be added at the end)	Addition		Scalability cost for additional 50 tps in future = (will not be taken for any calculation. Informative purpose and will be used for future purchase)
27	Page 34, under 1. Scope of work -> c) Developer	Addition		Migrating the existing APIs to the new platform based on the Bank's requirement without downtimes

28	Page 39, Point 35 under Technical Specifications of ESB	Deletion	Support for extensibility via microservices based on service oriented models such as OSGi	Point is removed
29	Page 51, under observability solution point 11	Deletion	The proposed solution should be able to provide for each individual SQL statement, fired in a transaction, the count of average Rows returned and fetches. It should be able to baseline the performance of every SQL alert on deviation	Point is removed
30	Page 41, Point 59 under Technical Specifications of ESB	Deletion	ESB should support creation of APIs from legacy and modern data sources through automation and business logic for handling dedicated tasks	Point is removed
31	Page 53, Point 14 under General Technical	Deletion	OEM should verify and certify the implementation every year	Point is removed
32	Page 32, under 1. Scope of work -> a) Implementation -> Point 17	Deletion	Immediately after installation, as part of baselining licenses, OEM should perform validation of the installation and confirm best practices. Any discrepancies with the actual practice, the bidder has to rectify. However the overall cost payable will remain the same. Hence the bidder has to implement as per implicit OEM recommendations only. Any increase in licences arising thus, will be solely on the bidder. In case OEM is finding over sizing, the reduction will be done as per OEM requirements and cost payable may thus decrease pro rata	Point is removed

Clarification for the queries received

SI No.	RFP Clause	Existing	Query received	Clarification from Bank
1	SECTION 5 - COMMERCIAL BID		The Table mentions No. of Years as 3 and the RFP ask for 5 Years as per Clause 11 as per PREQUALIFICATION CRITERIA OF THE BIDDER	The contract period will be for 3 years only. Considering the criticality of the integration solution to ensure the longevity of the product 5years has been set as qualification criteria. Post contract expiry, bank at its discretion will extend the support for the same product.
2	API Gateway:	API Manager shall Provide the cabaility to define Security Policies. Security Policies shall include parameters but not limited to API Access control, Usage quota, rate Limit, Circuit Breaker, etc	Circuit Breaker is a part of the ESB and thus request the Bank to remove this point of Circuit Breaker from the API Requirement	Please refer amendment
3	API Gateway:	API Manager should provide basic transformation (eg. protocol/message transfromation, enrichment routing, etc.) API Manager should supportconversion to/from multiple formats but not limited to ISO 8583, JSON, XMLSWIFT MT, SWIFT MX	Request the bank to specifiy the specific use cases to be addressed using the SWIFT MX and Swift MT. That is only when this protocol would be needed to be part of the current solution	Please refer amendment
4	API Gateway:	Proposed Solution shall support individual deployment of API Manager for each or Combined API Services per tenant wise.	Can you confirm how many Tenant are you considering	No limitation is expected in the number of tenants supported.
5	Scope of Work - b Production support point 12	Integration with Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank.	Request the bank to specify what are the tools used for Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System, which are currently installed at Bank.	Database fine tuning will not be part of the scope of work. Refer amendment for the updated scope of work. Other details sought for will be shared with the succesful bidder.
6	Scope of Work - b Production support point 13	Ensuring that the application maintains the RPO and RTO as defined by the bank's policy. Performing switchover and switchback operations for DR drill. Documentation of the detailed procedure for switchover/failover and switchback/ fall back operations to be performed during DR drill/Disaster. Data protection, complete data backup and other data safeguards including disaster recovery in respect of the project. Coordinating with bank for creating infrastructure for Disaster Recovery and Business Continuity Management as per Bank policies	What RPO and RTO is the bank expecting	RTO - 60 mins RPO - Zero data loss

7	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The Product must have management console monitor and Manage Process. This shuold be available via a modern web browser.	Can you rephrase to :"The Product must have management console monitor and Manage Process. This shold be available via a modern web browser."	No Change asked by the bidder
8	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	Support for extensibility via microservices based on services oriented models such as OSGi	OSGI is very old framework. Can the bank consider removing this point. Also please clarify the use case to be addressed via OSGI	Please refer Amendment
9	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The ESB should have wire- level compatibility that allows a mix of brokers and clients to connect, allowing nearly anything to seamlessly interact. It should support for Java's Message, Service (JMS) 1.1, Transmission Control Protocol (TCP), Secure Sockets Layer (SSL), User Datagram Protocol (UDP), Streaming Text Oriented Messaging Protocol (STOMP), MQ Telemetry Transport (MQTT), Advanced Message Queueing Protocol (AMQP), multicast transport protocols and other standards	Can we request to remove the requiement of Streaming Text Oriented Messaging Protocol (STOMP)	Please refer amendment
10	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall operate with a maximum latency of 20 ms or less measured from an end- user's perspective when triggering and producing the output excluding the dependency systems processing time.	Latency varies based on the custom code implemented. Please look into this question	Please adhere to RFP. Irrespective of the custom code being implemented the latency requirement should be met and the solution should be designed/sized accordingly.
11	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall support Web Services Standards like WS-Security, WS-RM etc.	Can we request to remove "Ws-RM" from the clause. Supported in	Please refer amendment
12	General Technical Requirements		Observability requirement has to be also considered in proposed 4 Physcial host?	As mentioned in the RFP the observability solution can be accomodated in physical node or virtual node for TNGB and in virtual nodes for SGB and PBGB
13	General Technical Requirements		What woud be Virtual host possible configuration? for SPGB and PVGB	Since the infrastructure is virtual the configuration can be scaled based on the bidder's sizing. Please refer amendment for more information.
14	General Technical Requirements	All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	Can you please confirm on the configuration to be Active -Active or Active-Passive, this will help in deciding the BoQ	As per the RFP requirement both Active-Active and Active-Passive mode has to be supported and the solution must be sized accordingly.

15	General Technical Requirements		Which type of storage is available from Bank e.g FIle, Block and Object storage if the make and brand of the storage provided it would be helpful Will the storage provided be CSI compliant	Block Storage. Other details will be shared with the successful bidder. Bidders have to ensure that the solution is designed to conform for all the possibilities of storage types.
16	Scope of Work	The bidder should follow all pertinent information reliability and security standards during implementation, configuration and support. The implementation has to be verified and certified by the OEM.	OEM can certify implementation and provide detailed documentation on the implementation provided the implementation id done by OEM. OEM wont be able to certify implementations done by partners and confirm on the best practices set by the OEM. Can the Bank kindly condier for implementation to be done by the OEM considering the criticality of the implementation.	Please refer amendment
17		Immediately after installation, as part of baselining licenses, OEM should perform validation of the installation and confirm best practices. Any discrepancies with the actual practice, the bidder has to rectify.		Please refer amendment
18	Connectors/Message Formats to be supported by ESB	zooker	Can we request to remove this connector. Request the specific use cases for using this connector	Please adhere to RFP
19	Connectors/Message Formats to be supported by ESB	AWS, AZURE	Can we request list of services on AWS/Azure required for integration	Details will be shared with the successful bidder. Bidder should conform all types of services mentioned in the cloud platform.
20	Connectors/Message Formats to be supported by ESB	Elastic Search	Is there a immediate requirment or can we remove this?	Please adhere to RFP
21	General Technical Requirements	Tamilnadu Grama Bank will provide either physical bare metal servers not more than 4 physical hosts for the total solution for each site with individual cores not exceeding 64 cores	It is Mentioned not more than 4 servers would be provided, do we get 4 physical servers for DC and 4 Physical servers afpr DR	Already clarified in RFP as each site which indicates maximum of 4 servers for DC and maximum of 4 servers for DR.
22	General Technical Requirements		How many virtual machines can be provided, and which hypervisor will they be created from?	Already clarified in RFP regarding the hypervisor. No limitations in the number of virtual machines required by the solution.
23	General Technical Requirements	Load Balancing needs to be done by using a hardware load balancer.	What is the specific Load Balancer that will be provided for the solution. If needed, can we create a software loadbalancer (haproxy)	Please refer amendment
24	General Technical Requirements		Do we need to consider Monitoring, Logging solutions ?	Please refer RFP
25	General Technical Requirements		Do we get Internet access during the implementation, if not a Quay and Maven registry will be required	Internet access will be provided through proxy during implementation

26	General Technical Requirements		If the requirement is Active-Active or Active passive, we might recommend a separate HUB cluster for High-availablity and would need more hardware interms of VMs, can we get a clarification on availability of more VMs	No limitations in the number of virtual machines required by the solution
27	Eligibility Criteria	5. The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	We request the bank to include OEM expereince too and amend the clause as below. 'The bidder/ **OEM** should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bidIf the requirement is Active-Active or Active passive, we might recommend a separate HUB cluster for High-availablity and would need more hardware interms of VMs, can we get a clarification on availability of more VMs.	Please adhere to RFP
28	General Technical Requirements:		Is bank looking for container based solution using Red Hat OpenShift or simliar platform.	As mentioned in the RFP, the ESB component should be container compliant and if bank decides to implement containers, the ESB solution should be deployed in container platform without change in the licenses
29	General Technical Requirements:		Please confirm if Bank can provide the Oracle weblogic application server license.	No all required licenses for the solution have to be factored by the bidder only.
30			Please confirm if Bank can provide the Oracle Database license.	No all required licenses for the solution have to be factored by the bidder only.
31	General Technical Requirements:		Can bidder assume that bank will also provide the Application server license like Jboss EAP/ Websphere ND.	No all required licenses for the solution have to be factored by the bidder only.
32	General Technical Requirements:		In case of Kubernetes/Container based deployment . Can bidder assume that bank will also provide the third party platform Software like Open Shift .	As per the RFP, the ESB component should be container compliant and the proposed solution should have all the runtimes and other components included. If bank decides to implement containers in future, the container platform will be provided by the bank in future.
33	General Technical Requirements:		In case of Kubernetes/Container based deployment . Can bidder assume that bank will also provide the third party platform Software like Red HAT AMQ or Active MQ	Any messaging queue which will be used/consumed by the integration code will be provided by the bank. Any messaging queue which is required for running of the solution has to be provided by the bidder only.

34	General Technical Requirements:		In case of Kubernetes/Container based deployment . Can bidder assume that bank will also provide the third party platform Software like Kafka	Kafka if required for running of the solution as per the RFP specifications has to be provided by the bidder only.
35	General Technical Requirements:		In case of Kubernetes/Container based deployment . Can bidder assume that bank will also provide the third party platform Software like Redis	Redis if required for running of the solution as per the RFP specifications has to be provided by the bidder only.
36	General Technical Requirements:		What is the RTO and RPO expectation for the application	RTO - 60 mins RPO - Zero data loss
37	General Technical Requirements:		Can bidder assume that Core/Distribution / Access Switches, Internal & external firewalls, Web Application Firewall, Load Balancers, other WAN devices will be provided by the bank.	Bank will provide Core/Distribution / Access Switches, Internal & external firewalls, Web Application Firewall, Hardware Load Balancers, other WAN devices
38	General Technical Requirements:		Network, Internet, Replication connectivity between DC's is the responsibility of the Bank. Please confirm	Confirmed
39	General Technical Requirements:		Can bidder assume that the Bank will provide the monitoring/patching/sever automation/HIPS/Antivirus tools for the new server environment ? Please confirm	Confirmed
40	General Technical Requirements:		Please confirm if bank will provide Storage like SAN/NAS or Object storage along with the Server for the application deployment	Block Storage. Other details will be shared with the successful bidder. Bidders have to ensure that the solution is designed to conform for all the possibilities of storage types.
41	General Technical Requirements:		Can Bidder assume that Backup software along with the Tape drive will be provided by the bank for the server environment?please confirm.	Confirmed
42	General Technical Requirements:		We assume that procuring consumables (Tape media) is the responsibility of the bank. Please confirm	Confirmed
43	General Technical Requirements:		How long the data to be retained (for any statutory purposes) in tape? Can you please provide Bank's Backup & Archival Policy?	Will be shared with the successful bidder. The tapes required to conform for the bank's backup & archival policy will be provided by the bank
44	General Technical Requirements:		Is bank looking Active- Active cluster across the layer web/APP and DB to support 24 X 7	Yes in all the components level which are part of the solution.
45	General Technical Requirements:		Total Customers / Accounts for each Grama Bank	Will be shared with the successful bidder.
46	General Technical Requirements:		Number of Branches	Will be shared with the successful bidder.

47	General Technical Requirements:			Total Back Office users across all the modules.	Will be shared with the successful bidder.
48	General Technical Requirements:			Total Concurrent Back Office users across all the modules.	Will be shared with the successful bidder.
49	General Technical Requirements:			Year on Year Growth Rate	The sizing parameters provided in the RFP covers the sizing required for the entire contract period which will be sized from day1
50				Is there any existing OIDC platform for authentication with bank or should be provide them?	Bidder has to provide the OIDC platform for authentication required to comply for the technical specifications of the RFP
51				Infra would be provided by the Bank or vendor needs to be provide that	Please refer RFP
52				If Infra is provided by Bank, then managed by bank as well ?	Hardware provided by the bank for the proposed solution will be managed by the bank.
53				Do you have any rule based system already built fro integration to apply business rules	Will be shared with the successful bidder.
54				ESB product should support for all enterprise application integration patterns with internal and cloud application using a single platform- what is meant by single platform	The proposed ESB product should be a single platform which will fulfill all the integration requirements as per the RFP. Bidder should not consider different separate platforms to fulfill the integration requirements.
55				Which Cloud provider is currently used in the bank	Will be shared with the successful bidder.
56				can the current architecture and landscape of all system be shared for us to reimagine the best fit solution	Will be shared with the successful bidder.
57				All the banks (TNGB, SGB, PBGB) aving single core banking system with multi entity feature from single vendore or different core banking system from different vendor ?	Will be shared with the successful bidder.
58				When we need to do the POC ?	Please refer RFP. POC will be part of the technical evaluation
59				We need the Weill defined Use case with necessary details in detail for the POC upfront from the bank	Will be shared during POC
60				Should we provide hardware configuration for each bank TNGB, SGB and PBGB. seprately or in a consolidated hardware configuration ?	Please refer RFP. Hardware/software configuration has to be provided for each bank separately.
61				Do you need 3 API Gateway or One API Gateway which will serve for all three banks ?	Please refer RFP

62			is the data center for all the banks TNGB, SGB and PBGB. are in one location or three different loaction ?	Will be shared with the successful bidder.
63			Do you need on site support in one location or three different location ?	Please refer RFP
64			If the support developers are deputed to different location form the base location they are appointed, what will be duration of this deputation in different locaiton ?	Bank will appoint the developers only in the locations mentioned in the RFP.
65			SLA - is the scheduled down time like, software patches and updates is considered as down time for SLA claculation	Approved downtimes for software patches and updates will not be considered for SLA calculation
66			What are software bank can provide us for the the winning bidder	As per the RFP, all software components as part of the proposed integration solution should be supplied by the bidder. Bank will be providing only the hardware infrastructure.
67			Request to Provide Bank's BCP and DR policies and Existing Network infrastructure	Will be shared with the successful bidder.
68			What Authentication and Authorization system is available in the Bank with the current Infrastructure	No authentication and authorization system is available with the Bank
69			Should we provide new Aunthentication and Authorization solution for the this solution (ESB / API Gatew way) or should we Integrate with your existing Authorization & Authorization Solution	Bidder has to provide the authentication and authorization server required to comply for the technical specifications of the RFP
70			CICD and code base to be maintained at Bank premises in Bank provided version control system	Yes
71			As per RFP Development and Release should happened at Bank premises (Non Intellect Standard)	Yes
72			Do we have Redis / memcache support should be validated for application (if not there)	Yes
73			Do we have Hetrogeneous RDBS compatiblity (Oracle, mySQL, MS SQL server) in the application landscpae	Yes
74			Extension of 2 to 3 weeks is what we would request for submission of the solution	Please refer amendment
75			We would like to understand more on Observability	Please refer RFP

76			We Would like to understand in detail the current product landscape of the bank. Some queries might come wwhen we have more detail	Will be shared with the successful bidder
77			General Technical Requirements: is the bank willing to setup the Container architecture in the cloud or banks own data center ?	All the requirement has to be setup on-premises only.
78			is the bank already having any load balacer to rese for this solution ?	No as part of the proposed solution bidder has to factor the software load balancer.
79	SECTION 5 - COMMERCIAL BID	The Table mentions No. of Years as 3 and the RFP ask for 5 Years as per Clause 11 as per PREQUALIFICATION CRITERIA OF THE BIDDER		The contract period will be for 3 years only. Considering the criteria of the integration solution to ensure the longevity of the product 5years has been set as qualification criteria. Post contract expiry, bank at its discretion will extend the support for the same product.
80	API Gateway:	API Manager shall Provide the cabaility to define Security Policies. Security Policies shall include parameters but not limited to API Access control, Usage quota, rate Limit, Circuit Breaker, etc	Circuit Breaker is a part of the ESB and thus request the Bank to remove this point of Circuit Breaker from the API Requirement	Please refer amendment
81	API Gateway:	API Manager should provide basic transformation (eg. protocol/message transfromation, enrichment routing, etc.) API Manager should supportconversion to/from multiple formats but not limited to ISO 8583, JSON, XMLSWIFT MT, SWIFT MX	Request the bank to specifiy the specific use cases to be addressed using the SWIFT MX and Swift MT. That is only when this protocol would be needed to be part of the current solution	Please refer amendment
82	API Gateway:	Proposed Solution shall support individual deployment of API Manager for each or Combined API Services per tenant wise.	Can you confirm how many Tenant are you considering	No limitation is expected in the number of tenants supported.
83	Scope of Work - b Production support point 12	Integration with Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank.	Request the bank to specify what are the tools used for Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System, which are currently installed at Bank.	Database fine tuning will not be part of the scope of work. Refer amendment for the updated scope of work. Other details sought for will be shared with the succesful bidder.
				RTO - 60 mins

84	Scope of Work - b Production support point 13	Ensuring that the application maintains the RPO and RTO as defined by the bank's policy. Performing switchover and switchback operations for DR drill. Documentation of the detailed procedure for switchover/failover and switchback/ fall back operations to be performed during DR drill/Disaster. Data protection, complete data backup and other data safeguards including disaster recovery in respect of the project. Coordinating with bank for creating infrastructure for Disaster Recovery and Business Continuity Management as per Bank policies	What RPO and RTO is the bank expecting	RPO - Zero data loss
85	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The Product must have management console monitor and Manage Process. This shuold be available via a modern web browser.	Can you rephrase to :"The Product must have management console monitor and Manage Process. This shold be available via a modern web browser."	No Change asked by the bidder
86	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	Support for extensibility via microservices based on services oriented models such as OSGi	OSGI is very old framework. Can the bank consider removing this point. Also please clarify the use case to be addressed via OSGI	Please refer Amendment
87	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The ESB should have wire- level compatibility that allows a mix of brokers and clients to connect, allowing nearly anything to seamlessly interact. It should support for Java's Message, Service (JMS) 1.1, Transmission Control Protocol (TCP), Secure Sockets Layer (SSL), User Datagram Protocol (UDP), Streaming Text Oriented Messaging Protocol (STOMP), MQ Telemetry Transport (MQTT), Advanced Message Queueing Protocol (AMQP), multicast transport protocols and other standards	Can we request to remove the requiement of Streaming Text Oriented Messaging Protocol (STOMP)	Please refer amendment
88	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall operate with a maximum latency of 20 ms or less measured from an end- user's perspective when triggering and producing the output excluding the dependency systems processing time.	Latency varies based on the custom code implemented. Please look into this question	Please adhere to RFP. Irrespective of the custom code being implemented the latency requirement should be met and the solution should be designed/sized accordingly.
89	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall support Web Services Standards like WS- Security, WS-RM etc.	Can we request to remove "Ws-RM" from the clause. Supported in	Please refer amendment
90	General Technical Requirements		Observability requirement has to be also considered in proposed 4 Physcial host?	Additional virtual infrastructure will be provided if required for hosting the observability solutuion.

91	General Technical Requirements		What woud be Virtual host possible configuration? for SPGB and PVGB	Will be shared with the successful bidder
92	General Technical Requirements	All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	Can you please confirm on the configuration to be Active -Active or Active-Passive, this will help in deciding the BoQ	As per the RFP requirement both Active-Active and Active-Passive mode has to be supported and the solution must be sized accordingly.
93	General Technical Requirements		Which type of storage is available from Bank e.g FIle, Block and Object storage if the make and brand of the storage provided it would be helpful Will the storage provided be CSI compliant	Block Storage. Other details will be shared with the successful bidder. Bidders have to ensure that the solution is designed to conform for all the possibilities of storage types.
94	Scope of Work	The bidder should follow all pertinent information reliability and security standards during implementation, configuration and support. The implementation has to be verified and certified by the OEM.	OEM can certify implementation and provide detailed documentation on the implementation provided the implementation id done by OEM. OEM wont be able to certify implementations done by partners and confirm on the best practices set by the OEM. Can the Bank kindly condier for implementation to be done by the OEM considering the criticality of the implementation.	Please refer amendment
95		Immediately after installation, as part of baselining licenses, OEM should perform validation of the installation and confirm best practices. Any discrepancies with the actual practice, the bidder has to rectify.		Please refer amendment
96	Connectors/Message Formats to be supported by ESB	zooker	Can we request to remove this connector. Request the specific use cases for using this connector	Please adhere to RFP
97	Connectors/Message Formats to be supported by ESB	AWS, AZURE	Can we request list of services on AWS/Azure required for integration	Will be shared with the successful bidder
98	Connectors/Message Formats to be supported by ESB	Elastic Search	Is there a immediate requirment or can we remove this?	Please adhere to RFP
99	General Technical Requirements	Tamilnadu Grama Bank will provide either physical bare metal servers not more than 4 physical hosts for the total solution for each site with individual cores not exceeding 64 cores	It is Mentioned not more than 4 servers would be provided, do we get 4 physical servers for DC and 4 Physical servers afpr DR	Already clarified in RFP as each site which indicates maximum of 4 servers for DC and maximum of 4 servers for DR.
100	General Technical Requirements		How many virtual machines can be provided, and which hypervisor will they be created from?	Already clarified in RFP regarding the hypervisor. No limitations in the number of virtual machines required by the solution.

101	General Technical Requirements	Load Balancing needs to be done by using a hardware load balancer.	What is the specific Load Balancer that will be provided for the solution. If needed, can we create a software loadbalancer (haproxy)	Please refer amendment
102	General Technical Requirements		Do we need to consider Monitoring, Logging solutions ?	Please refer RFP
103	General Technical Requirements		Do we get Internet access during the implementation, if not a Quay and Maven registry will be required	Internet access will be provided through proxy during implementation
104	General Technical Requirements		If the requirement is Active-Active or Active passive, we might recommend a separate HUB cluster for High-availablity and would need more hardware interms of VMs, can we get a clarification on availability of more VMs	No limitations in the number of virtual machines required by the solution
105	point No. 8 - General Tender Conditions	Rs. 12,00,000 Only (Rupees Twelve Lakh Only) to be submitted in the form of Bank Guarantee (BG) or Demand Draft on or before last date of Bid Submission in favour of Tamil Nadu Grama Bank, Salem.	Can we provide the Bank Guarantee in Electronic format (e-BG) instead of Physical Bank Guarantee (BG) or Demand Draft, kindly confirm. An Electronic Bank Guarantee (e-BG) eliminates the physical documentation usually associated with issuance of BG. It reduces the turn-around time of the BG issuance and delivery to the beneficiary. Hence, the request.	Bank Guarantee in Electronic format will be accepted.
106	Background and Purpose of Project	Deployment of Technical Resources / Developers / Support	Are the Technical Resources to be deployed for a period of 3 years. Please confirm. Will the Technical resources be deployed for only Software Development / Software Support Work or whether they will be part of Bank's Operations Team, kindly clarify.	Please refer RFP. Any technical resources deployed as part of the RFP will be carrying out the scope of work defined in the RFP only.
107	Payment Terms	Delivery of Software/ Hardware and applicable licenses - 30 % of License Cost Post successful Implementation and after Signoff - 70 % of License Cost	Request you to please change the payment terms as below: Delivery of Software/ Hardware and applicable licenses - 70 % of License Cost Post successful Implementation and after Signoff - 30 % of License Cost	Please adhere to RFP
	SECTION 4 - SPECIFICATIONS	The proposed ESB should be deployable on on-	We assume the Container Orchestration platform will be provisioned by bank or the community	Please adhere to RFP. Open source/community edition is not

108	ESB Sr No 2	premise Physical, Virtual, container, private, public cloud infrastructure and hybrid infrastructure	will be provisioned by bank or the community edition of same will be accomodated as and when required by mutual desicsion within BANK and awarded Bidder. Kindly confirm.	allowed as per Bank's policy. All components should be supported by the respective OEMs at all levels like L1, L2, L3, L4 etc.
109	1. SCOPE OF WORK b) Production Support Point 10	Maintain lists of all system files, root directories and volumes. Performance tuning of servers and other equipment. Monitoring access logs and application logs. Purging of temporary Files, logs in accordance with Bank's policies. Data backup (online and offline) and restoration planning and implementation. Regular and proper backups of all Servers & Storage to protect against data losses. Regular analysis of events and logs generated in the entire sub systems including but not limited to servers, operating systems, databases, applications, etc. Applying service packs, hot fixes and security rollouts.	We request Bank to limit this clause to items attributable to bidder since VMs/Severs Operating Systems and Databases are expected to be provisioned by Bank.	Please refer RFP
110	SECTION 4 - SPECIFICATIONS ESB Sr No 27	The Proposed solution should support for OEM supported Enterprise Container Platform.	We undertand this clause as The Proposed solution should get support from OEM in case of deployment on Enterprise Container Platform. Or if it stands as The Proposed sultion should be able to run on any enteprise Container Platform provisioned by Bank. Kindly confrim.	The Proposed sultion should be able to support and run on any OEM supported enteprise Container Platform provisioned by Bank
111	SECTION 4 - SPECIFICATIONS ESB Sr No 50	ESB should provide tools to configure and monitor KPIs.	The ESB offeres rich set of monitoring capabilties, we request bank to confirm if pre-built capabilties and KPIs are enouh to monitor the ESB application.	Please refer RFP
	SECTION 4 - SPECIFICATIONS	High performance/in-memory Database should		

112	ESB Sr No 76	high performance/in-memory Database should be provided as part of overall solution which supports distributed in-memory storage, geo-replication if required for storing any config and analytics data should be included as well. Highest edition/level of license and highest level of enterprise support for the concerned database should be included as part of the solution.	We request Bank to clarify detailed use case on in-memory database in ESB and APIM. Also we request bank to clarify if it is mandatory to have in-memory database if the solution itself can take care of replication of deployed apps in cluster across geos.	Please adhere to RFP.
113	Message Formats to be supported by ESB	6 AWS 7 AZURE 8 Crypto(JCE) 9 CXF 10 Elastic search 23 Zookeeper	We request Bank to clarify on these message formats and exact usecase/Specific format	Use case will be shared with the successful bidder
114	Supported Message Formats	Protobuf JAXB	We requets Bank to clarify on these message formats and exact usecase/Specific format	Use case will be shared with the successful bidder
115	SECTION 4 - SPECIFICATIONS API Gateway: Sr No 21 & Sr No 27	Proposed solution must support multitenancy using single centralized deployment of API Manager. Proposed solution must support creation of multiple tenants, individual admins, and multiple API gateways under each tenant without any restrictions. **AND** Proposed solution must have the capability to run separate API gateway deployment & instances for each tenant of API Management solution.	the two statements in requirement looks contradictory to each other. We request bank to clarify	Bank is looking for both the capabilities in the proposed solution
116	SECTION 4 - SPECIFICATIONS API Gateway: Sr No 47	Proposed solution shall support deployment of multiple API Gateways as per requirements without incurring any additional costs.	We request Bank to clarify if bank is looking for enterprise wide unilimited Licenses, if so it may affect commercials towards higher extend. If not we request Bank to confirm on how many instances bank would need for each sub bank.	Please adhere to RFP. There should not be any limitations on the number of api gateways deployed.
		Solution should be able to provide full visibility into all the activities from web and mobile application user across all devices, browsers, and geographic locations. (To analyze user data in real-time to assess satisfaction, detect struggles and proactively predict and influence next steps in their digital journey).	For Such analytics a separate platform is required which falls specifically under BI capabilities. That can analyse the data based on channel definations while invoking customer journey & can give complete end to end behavioural analysis.	

117	Observability Solution:Sr No 1 & Sr No 2	**AND** The Solution should be able to give full visibility of customer experience across every digital transaction from the frontend to the backend including various interfaces for every transaction	We request Bank to clarify if a solution must have this capabilty bundled. if yes, we request further details on number of users of this monitoring solutions who will be accessing the reports for sizing purpose.	Please adhere to RFP.
118	Observability Solution:Sr No 3	The proposed solution should support fully automated monitoring of addition/ removal of VMs/LPARs/Oracle DB/JVMs/Web Servers/IIB processes and queues etc. based on changing load patterns/processes without manual intervention.	The Solution being proposed in the RFP is for APIM and the requirement being reffered in this clause is specifically for infra management tools like Vmware etc. we request bank to alter this clause to monitoring attributable to bidder apps or specify the detailed use-case for the clause.	Please adhere to RFP
119	Observability Solution:Sr No 6	The proposed solution should have an in-built AI analytical engine thereby eliminating the need of manually identifying the root cause through multitude of dashboards and reports. (The proposed solution should simplify the operations monitoring process significantly by narrowing down to the correct team to address the problem eg; network, application, server, middleware, or database teams. The objective is to reduce Mean time to Identify (MTTI) and Mean time to Resolve (MTTR).)	The Capaility being reffered here does not need AI engine and could be integrated part of Integration monitoring tool which can simplify the Operation monitoring and can refere the exact team who needs to look into the issue. We request Bank to confirm if such capabilities are fine without AI engine or AI Engine is the mandatory to have.	Please adhere to RFP.
120	Observability Solution:Sr No 7	The solution should be capable of performing prediction based anomaly detection to identify unusual or unexpected events and measurements within the monitored environment	The Prediction models refer to cater different requirements for example prediction of cash flows management etc. in pureplay integration where the transaction is being processed please explain the use case for implementation. Any API tool must be capable of identifying SQL injection or DDOS attacks etc hoever same cannot be the case of prediction and it should be blocking such requests as an when occure.	Please adhere to RFP.

121	Observability Solution:Sr No 8	The solution should be able to automatically learn all the traffic patterns and baseline them. And when anomalies are detected within these patterns, it should be able to alert the operations team.	The feature being requested is purely a analytical requirement of any BI tool to anayze patterns etc. we request Bank to clarify the usecase in case BI tool is expected.	Please adhere to RFP.
122	1. SCOPE OF WORK b) Production Support Point 2	Manage day-to-day operations, system administration & maintenance, database/caching administration, backup and recovery, system support, troubleshooting, technical support, patching, configuration, deployment, change & release management and support (L1, L2 & L3) and DR& BCP activities	We reqeust bank to amend this clause only for the subsystems attributable to bidder and for the systems like VMs/Servers/Databases etc which is provisioned by Bank must not be managed and mantained by successful bidder.	The scope of work indicated in the RFP is limited to all the components supplied as part of the proposed solution.
123	Observability Solution:Sr No 15	Proposed solution should be able to allow creation of dashboards to show business transaction health and application response time for each and every transaction. The teams must be able to drill down to each of these transactions to see breakup of time spent on webserver, application server, middleware, external components, and database tiers (whatever is part of the individual transaction). There should be no sampling. The solution must be able to capture the business KPIs from POST parameters, Method Arguments (as data objects or variables) Return Values, SOL Bind variables, etc	This requirement is of BI tool, we request bank to share number of users who will be accessing the reports for sizing purpose	Please adhere to RFP.
124	Observability Solution:Sr No 17	The solution should be able to automatically detect any deployment changes which may have happened in the application code and the AI engine should correlate that with the any performance issue.	We request Bank to clarify on usecase in detail. The situation being referred here could be due to various possibilities on application deployment like high CPU utilization due to another patch update being performed on servers and AI capabilty may point it to APP Process change.	Please adhere to RFP.

125	Observability Solution:Sr No 23	The solution should be able to automatically detect databases and showcase its performance and its impact on transaction performance. It should be able to showcase the slow performing SQL Queries or Procedures, deadlocks, errors, slow wait events	We request Bank to share detailed usecase on the requirement	Please adhere to RFP.
126	Observability Solution:Sr No 25	All the components of Integration platform should be monitoring using the same Observability APM solution that is monitoring applications	The Requirement here is doable, however needs to open various ports from different apps to Observabilty platform and could lead to potential threat in identity of application servers over internet to unautorized users and may lead to several attacks.	Please adhere to RFP.
127	General Technical Requirements: Point No 2	Any OS/ database/ web servers/ application server/ development tools/ caching servers/ proxy servers/ runtimes or any other licenses that needs to be included for complying the required technical specifications has to be quoted under the miscellaneous line items in total and the breakup of the same has to be given in the miscellaneous table breakup format individually for each bank	We request bank to clarify if the OS or Databases needed for application development and runtime will be provisioned by Bank or to be brought by Bidder. If Bidder needs to get the OS & Databases for BANK, will bank allow the community edition/Open source Operating systems or DBs.	Please adhere to RFP. Open source/community edition is not allowed as per Bank's policy. All components should be supported by the respective OEMs at all levels like L1, L2, L3, L4 etc.
128	General Technical Requirements: Point No 10	Load Balancing needs to be done by using a hardware load balancer	We assume the reuired hardware load balancer will be provisioned and maintained by Bank	Please refer amendment
129	General Technical Requirements: Point No 14	OEM should verify and certify the implementation every year	We requets Bank to ammend below clause. OEM/**OEM Authorized exclusive partner** should verify and certify the implementation every year	Please refer amendment
130	SECTION 5 - COMMERCIAL BID	Implementation cost for TNGB, SGB & PBGB	We assume the implementation cost refers to the cost of installation, configuration of the prosposed solution and it does not cover any sort of development or migration of any API. Also, we assume the overall engagement with bank for development of API will be purely on T&M basis for which the prices being asked in common prices section.	Please refer RFP
131	SECTION 5 - COMMERCIAL BID	Total Solution Cost (H) = A+B+C+D+E+F+G	The cost of D, E & F MISC expenses is already covered in A, B & C. We request Bank to clarify.	Please refer amendment

132	SECTION 5 - COMMERCIAL BID	Common Prices	The cost for each resource line item is being requested per month, however the header for cost column says cost per year. We request Bank to clarify and ammend the correct annexure.	Please refer amendment
133	Annexure-IV	PERFORMANCE CERTIFICATE	The Performance certificate is being requested in specific format, we request bank to allow bidders to submit mails or cerificates in custom formats in which the client being referenced is comfortable subjected to the details being requetsed are being covered,	Please adhere to RFP
134	Annexure-VII	MAF	We request Bank to relax the standard format shared by Bank and allow bidder to share MAF in OEM format.	Please adhere to RFP
135	NA	NA	We request Bank to confirm Number of environmnets to be created in Banks infra for this project per Bank	Please refer amendment
136	Eligibility	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	Can we request for removal of no. of branches clause In case of Central / State Govt. agencies	Please refer amendment
137	Eligibility	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	Can we request to reduce Past experience orders to 2	Please refer amendment

138	Eligibility	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	As these kind of integrations are unique in itself for every use case so broader industry experience would be beneficial for the bank, request to include manufacturing, aviation industry experience as well.	Please refer amendment
139	Eligibility	The Bidder should have Support Office in Chennai with atleast 20 on roll support personnel available. Self-declaration needs to be submitted. In case of verification by the bank, physical visit and any other requirements as required for ascertaining the compliance has to be facilitated by the bidder.	Can we request to change it to as and when required support team needs to be deployed at Bank premises in Chennai	Please adhere to RFP.
140	SECTION 5 - COMMERCIAL BID	The Table mentions No. of Years as 3 and the RFP ask for 5 Years as per Clause 11 as per PREQUALIFICATION CRITERIA OF THE BIDDER	Please clarify	The contract period will be for 3 years only. Considering the criteria of the integration solution to ensure the longevity of the product 5years has been set as qualification criteria. Post contract expiry, bank at its discretion will extend the support for the same product.
141	API Gateway:	API Manager shall Provide the cabaility to define Security Policies. Security Policies shall include parameters but not limited to API Access control, Usage quota, rate Limit, Circuit Breaker, etc	Circuit Breaker is a part of the ESB and thus request the Bank to remove this point of Circuit Breaker from the API Requirement	Please refer amendment
142	API Gateway:	API Manager should provide basic transformation (eg. protocol/message transfromation, enrichment routing, etc.) API Manager should supportconversion to/from multiple formats but not limited to ISO 8583, JSON, XMLSWIFT MT, SWIFT MX	Request the bank to specifiy the specific use cases to be addressed using the SWIFT MX and Swift MT. That is only when this protocol would be needed to be part of the current solution	Please refer amendment
143	API Gateway:	Proposed Solution shall support individual deployment of API Manager for each or Combined API Services per tenant wise.	Can you confirm how many Tenant are you considering	No limitation is expected in the number of tenants supported.
144	Scope of Work - b Production support point 12	Integration with Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank.	Request the bank to specify what are the tools used for Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System, which are currently installed at Bank.	Database fine tuning will not be part of the scope of work. Refer amendment for the updated scope of work. Other details sought for will be shared with the succesful bidder.

				RTO - 60 mins
145	Scope of Work - b Production support point 13	Ensuring that the application maintains the RPO and RTO as defined by the bank's policy. Performing switchover and switchback operations for DR drill. Documentation of the detailed procedure for switchover/failover and switchback/ fall back operations to be performed during DR drill/Disaster. Data protection, complete data backup and other data safeguards including disaster recovery in respect of the project. Coordinating with bank for creating infrastructure for Disaster Recovery and Business Continuity Management as per Bank policies	What RPO and RTO is the bank expecting	RPO - Zero data loss
146	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The Product must have management console monitor and Manage Process. This shuold be available via a modern web browser.	Can you rephrase to :"The Product must have management console monitor and Manage Process. This shold be available via a modern web browser."	No Change asked by the bidder
147	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	Support for extensibility via microservices based on services oriented models such as OSGi	OSGI is very old framework. Can the bank consider removing this point.	Please refer Amendment
148			Also please clarify the use case to be addressed via OSGI	Please refer Amendment
149	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	The ESB should have wire- level compatibility that allows a mix of brokers and clients to connect, allowing nearly anything to seamlessly interact. It should support for Java's Message, Service (JMS) 1.1, Transmission Control Protocol (TCP), Secure Sockets Layer (SSL), User Datagram Protocol (UDP), Streaming Text Oriented Messaging Protocol (STOMP), MQ Telemetry Transport (MQTT), Advanced Message Queueing Protocol (AMQP), multicast transport protocols and other standards	Can we request to remove the requiement of Streaming Text Oriented Messaging Protocol (STOMP)	Please refer amendment
150	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall operate with a maximum latency of 20 ms or less measured from an end- user's perspective when triggering and producing the output excluding the dependency systems processing time.	Latency varies based on the custom code implemented. Please look into this question	Please adhere to RFP. Irrespective of the custom code being implemented the latency requirement should be met and the solution should be designed/sized accordingly.
151	TECHNICAL AND FUNCTIONAL SPECIFICATIONS ESB	ESB shall support Web Services Standards like WS-Security, WS-RM etc.	Can we request to remove "Ws-RM" from the clause. Supported in	Please refer amendment

152	General Technical Requirements		Observability requirement has to be also considered in proposed 4 Physcial host?	As mentioned in the RFP the observability solution can be accomodated in physical node or virtual node for TNGB and in virtual nodes for SGB and PBGB
153	General Technical Requirements		What woud be Virtual host possible configuration? for SPGB and PVGB	Bank will provide a maximum of 16Vcpu per vm. the number of VMs as required by the proposed solution will be provided by the bank.
154	General Technical Requirements	All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	Can you please confirm on the configuration to be Active -Active or Active-Passive, this will help in deciding the BoQ	As per the RFP requirement both Active-Active and Active-Passive mode has to be supported and the solution must be sized accordingly.
155	General Technical Requirements		Which type of storage is available from Bank e.g FIle, Block and Object storage if the make and brand of the storage provided it would be helpful	Block Storage. Other details will be shared with the successful bidder. Bidders have to ensure that the solution is designed to conform for all the possibilities of storage types.
156				
157			Will the storage provided be CSI compliant	
158	Scope of Work	The bidder should follow all pertinent information reliability and security standards during implementation, configuration and support. The implementation has to be verified and certified by the OEM.	OEM can certify implementation and provide detailed documentation on the implementation provided the implementation id done by OEM. OEM wont be able to certify implementations done by partners and confirm on the best practices set by the OEM. Can the Bank kindly condier for implementation to be done by the OEM considering the criticality of the implementation.	Please refer amendment
159		Immediately after installation, as part of baselining licenses, OEM should perform validation of the installation and confirm best practices. Any discrepancies with the actual practice, the bidder has to rectify.		Please refer amendment
160	Connectors/Message Formats to be supported by ESB	zookeeper	Can we request to remove this connector. Request the specific use cases for using this connector	Please adhere to RFP
161	Connectors/Message Formats to be supported by ESB	AWS, AZURE	Can we request list of services on AWS/Azure required for integration	will be shared with the successful bidder
162	Connectors/Message Formats to be supported by ESB	Elastic Search	Is there a immediate requirment or can we remove this?	Please adhere to RFP

163	General Technical Requirements	Tamil Nadu Grama Bank will provide either physical bare metal servers not more than 4 physical hosts for the total solution for each site with individual cores not exceeding 64 cores	It is Mentioned not more than 4 servers would be provided, do we get 4 physical servers for DC and 4 Physical servers for DR	Already clarified in RFP as each site which indicates maximum of 4 servers for DC and maximum of 4 servers for DR.
164	General Technical Requirements		How many virtual machines can be provided, and which hypervisor will they be created from?	Already clarified in RFP regarding the hypervisor. No limitations in the number of virtual machines required by the solution.
165	General Technical Requirements	Load Balancing needs to be done by using a hardware load balancer.	What is the specific Load Balancer that will be provided for the solution.	Please refer amendment
166			If needed, can we create a software loadbalancer (haproxy)	Please refer amendment
167	General Technical Requirements		Do we need to consider Monitoring, Logging solutions ?	Please refer RFP
168	General Technical Requirements		Do we get Internet access during the implementation, if not a Quay and Maven registry will be required	Internet access will be provided through proxy during implementation
169	General Technical Requirements		If the requirement is Active-Active or Active passive, we might recommend a separate HUB cluster for High-availablity and would need more hardware interms of VMs, can we get a clarification on availability of more VMs	No limitations in the number of virtual machines required by the solution
170			Can we know the application languages	Will be shared with the successful bidder
171	Observability Solution	The solution should have a single agent that can be deployed to monitor any technology.	Different agents would be required for different stack monitoring	Please adhere to RFP
172	Observability Solution	Proposed solution should collect data from monitored systems by using a single agent on each host	Multiple agents would be required to capture different metrics / logs / traces / spans etc ..	Please adhere to RFP.
173	Observability Solution	The solution should not make changes to application for capturing end user traces.	Some code insertion in form of class / jars / interceptors etc .. would be required	Please adhere to RFP
174	Scope of Work	Production Support	Who is responsible for maintaining the hardware on which the solution will be deployed	Bank will be maintain the hadrware on which the solution will be deployed.
175	Scope of work	Analyse the current application, Integrations & Infrastructure Landscape	Does the current application use ESB. If yes which ESB is in use ?	No
176	Scope of work	Identify and Categorize migration path of existing integration to "Target State"	Does the scope of work include migration of any of the currently implemented services ? What is the count of the services to be migrated ?	Approx. 30 integrations. Other details will be shared with the successful bidder

177	Scope of work	Analyse the current application, Integrations & Infrastructure Landscape	What is roughly the count of integrations that need to be developed new and that need to be migrated ?	Approx. 30 integrations to be migrated. Other details will be shared with the successful bidder. New integrations will be under the developer scope.
178	Scope of work	Analyse the current application, Integrations & Infrastructure Landscape	Is it possible to share the endpoints types that need to be integrated ?	will be shared with the successful bidder
179	Scope of work	User account Creation/deletion	Where are the user accounts stored as of now ?	the scope of work limits to the user account creation/deletion in the proposed solution only.
180	Scope of work	Integration with Database Activity Monitoring, Database fine tuning, Privileged Identity Management, security information and event management and Vulnerability Assessment System installed at Bank.	what are the databases and tools currently in use ?	will be shared with the successful bidder
181	Scope of work	deployment of developers	At which location(s) the bidders development team need to be present ?	Please refer RFP
182	Scope of work	deployment of production support resources	At which location(s) the bidders support team need to be present ?	Please refer RFP
183	Scope of Work	Production Support	Who is responsible for maintaining the hardware on which the solution will be deployed	Bank will be maintain the hadrware on which the solution will be deployed.
184			Can we request for postponement of due date of proposal submission by 30 days as it would take time to prepare / architect solutions and preparation of bids	Please refer amendment
185	Scope of Work	Identify and Categorize migration path of existing integration to "Target State"	How many APIs/Service present in existing infra and define there complexity for each bank?	Approx. 30 integrations. Other details will be shared with the successful bidder
186	Scope of Work	Installation and configuration of the solution as per the design document	We understood from the RFP document the environments / bank are … 1 non-production, production and DR for the scope. Please confirm our understanding.	Please refer RFP
187	Scope of Work	Total Contract / engagement period.	Can you please reconfirm the total contract period? (3 years or 5 years)	Contract period is for 3 years
188	Out of scope	Out of RFP	Actual network configuration, DB installation & table creations (if required), LDAP configuration, VMWare or any hypervisor configurations / installations, bare metal mounting, storage related configurations are out of scope of us. Please confirm.	Actual network configuration, DB installation & table creations (if required), LDAP configuration, VMWare or any hypervisor configurations / installations, bare metal mounting, storage related configurations are out of scope

189	Production Support	After successful GO-LIVE of the ESB AND API MANAGER at the Bank, inclusive of providing support for day to day functional and technical support to the Bank's team at Salem/ Chennai/ Hyderabad / Chittoor/ Pondicherry any other place as decided by bank	Does it mean that technical support will start and to be provided after installation of any one environment?	Please refer RFP
190		Ensuring that the application maintains the RPO and RTO as defined by the bank's policy. Performing switchover and switchback operations for DR drill.	For DR, what are the RPO and RTO details? This is critical details to size S/W and H/W requirements before submission.	RTO - 60 mins RPO - Zero data loss
191		Migrating the existing APIs to the new platform based on the Bank's requirement without downtimes.	Do you want us consider only platform setup is project scope? Migration of existing APIs/Services will come under T&M scope? Please confirm.	Please refer amendment
192	General Technical Requirements	Load Balancing needs to be done by using a hardware load balancer.	Can we also assume the load balancers for HA purposes if required would be provided by each bank for each setup as part of hardware provisioning?	Please refer amendment
193		All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	Can we assume DR environment as passive set up? Only one of (DC or DR) will have active transactions at any given time.	DC and DR can be active-active or active-passive based on the bank's requirement time to time. Hence the bidder is expected to factor for the highest level of licensing/subscription to accomodate both the architectures.
194		All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	We could have two different licensing options. So, if we propose core based license option, to optimize the cost we would like to propose HA solution only for run time components (ESB and API Gateway), while other components will comply with RTO and RPO. Please confirm?	Please adhere to RFP. As specified in the RFP, all the components which are part of the solution should be in HA only.
195		All the components quoted as part of the solution should be in High availability mode and can be configured in Active-Active or Active-Passive mode as per the bank's requirements. The necessary license has to be included in the bill of materials quoted as part of the solution.	It is assumed HA for Production and DR only (not for UAT / SIT), as a standard practice. Can you please confirm?	HA has to be configured for DC and DR production environment only and not needed for UAT/SIT environment.

196		The necessary license has to be included in the bill of materials quoted as part of the solution.	The core based license (with HA and internal gateway architecture) will be expensive to start with. So, can we propose transaction based API licensing offering, by calculating from the current transaction count and considering the projected growth with enough buffer for 3 years requirements for each bank, with no restrictions on HA and number of environments? This will be individual for each bank. No sharing among banks.	Please adhere to RFP
197		Tamilnadu Grama Bank will provide either physical bare metal servers not more than 4 physical hosts for the total solution for each site with individual cores not exceeding 64 cores or ESXI based virtual infrastructure or both physical(with the above mentioned count and configuration) and virtual. Sapthagiri Grameena Bank and Puthuvai bharathiar grameena bank will be providing individual ESXI based virtual infrastructure for hosting the proposed solution.	Whether the offering should include Supported version of Kubernetes platform like Red Hat Open Shift for API & ESB solution Deployment? Or is it optional so that save cost in first 3 years. (unless banks want to deploy the applications in container platform to start with)	Please refer RFP
198		In production environment for each banks are TNGB – 100 TPS, SGB – 60 TPS, PBGB – 30 TPS. Among this 100% of the above TPS will be through internal api gateway and 20% through external api gateway	The TPS for internal and external gateway would be 80% and 20%, request you to confirm?(seems there is a typo)	Please adhere to RFP
199	SECTION 5 - COMMERCIAL BID	Production support general shift L2 range - 1 person	Where is this resource's place of work during the general shift? Who will manage this resource?	Please refer RFP for the workplace. Bank Team will be managing the resource.
200	SECTION 5 - COMMERCIAL BID	Production Support 24/7 1person per shift L1 range / month	How will the priority be set for these resources? Where is the place of work for these resources?	Please refer RFP for the workplace.
201	TECHNICAL AND FUNCTIONAL SPECIFICATIONS - ESB	ESB shall support SSL/TLS v1.2 and above communication with Strong ciphers which are not deprecated/ demonstrated to be insecure/ vulnerable	Will TNGB, SGB, PBGB provide the required CA certificates for secure communication between ESB components?	Yes CA certificates will be provided by the respective banks

202	Observability Solution	The proposed solution should be able to monitor user journey within a visit/session and tracing it back to backend systems. The solution should be able to automatically detect databases and showcase its performance and its impact on transaction performance. It should be able to showcase the slow performing SQL Queries or Procedures, deadlocks, errors, slow wait events.	Given the unknown number of possible back end applications and databases (current and next 3 years), can we assume and do software sizing of the observability solution for all the integration components only? (all environments)	Observability solution sizing has tobe done for observing all the components of the proposed solution only.
203	PAYMENT TERMS	Installation, Commissioning and Go- Live of solution, SIGN OFF(70%)	Go-live is assumed as completion of one non-production and production environment for each bank. Please confirm.	Please refer RFP.
204		The cost of the developer resources and the production support resources will be shared equally by the 3 banks. The invoices have to be raised individually for each bank	Since the PO is on TNGB? What is the reference for SGB and PBGB for PO invoicing? What about L2 support resource cost?	Please refer RFP
205	Eligibility Criteria	If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria" subject to meeting of quality and technical specifications.	Can assume for MSME, the qualication criteria as mentioned under PREQUALIFICATION CRITERIA OF THE BIDDER S.No. 1 ,2, and 3 are not applicable?	Please adhere to RFP
206	BID EARNEST MONEY	Ernest Money Deposit	We are under MSME (Service provider) please confirm if we are eligible for exemption of EMD.	With the required supporting documents for Msme, exemption will be provided
207	PAYMENT TERMS	1.Delivery of Software/ Hardware and applicable licenses_30 % of License Cost 2.Post successful Implementation and after Signoff_70 % of License Cost	This is understood this for year# 1. Please confirm the payment model for year#2 and year #3.	Please refer RFP
208		The cost of the developer resources and the production support resources will be shared equally by the 3 banks. The invoices have to be raised individually for each bank.	This is possible and requires three individual PO's from the banks, as per GST regulations. Request you to confirm the possibility.	Please adhere to RFP
209	INTEGRITY PACT	The Integrity Pact must be executed on stamp paper of applicable value and must be signed by the witnesses also.	Can you please specify the value of stamp paper? (ex: Rs 100 / Rs 200)	Rs.100

210	PERFORMANCE CERTIFICATE	PERFORMANCE CERTIFICATE & PO SUPPORTING THE CLAIM FROM THE RESPECTIVE ORGANIZATION SHOULD BE SUBMITTED ALONG WITH CONTACT DETAILS OF THE COMPANY.	We have PO's and go-live certificates from respective organizations in their own format (letter head or emails from the respective in charge) with contact numbers. Request you to allows us to submit them instead.	Please adhere to RFP
211	DELIVERY & IMPLEMENTATION	Purchase order will be released by TNGB on behalf of TNGB, SGB and PBGB.

The licenses should be in the name of the respective banks and individual support account have to be provided for each bank. | Can three individual purchase orders issued for the software cost? It could be problematic to create three customer accounts with one purchase order? Request your inputs. | Please adhere to RFP |
212	Out of RFP		Is there a feasibility of hybrid project implementation with onsite and offsite resource deployment to optimize the cost and pass them back to the bank?	Please adhere to RFP
213	Out of RFP		Is it mandatory ESB, API Manager and observability solutions are from same OEM? Please confirm.	Please refer RFP
214	Out of RFP		If ESB and API Manager solutions are not required from same OEM do you want us to submit the performance certificates (eligibility) for each solutions separately? Or you will consider if we submit either ESB or API with mix?	Please refer RFP
215	DELIVERY AND IMPLEMENTATION TIMELINES	Software licenses need to be delivered within one week from the date of Purchase Order.	7 days are allowed to accept the PO. How can license delivery also be with n 7 days from the PO date? So, license delivery would be at least 14 days from the PO date. Please confirm.	Please refer amendment
216	DELIVERY AND IMPLEMENTATION TIMELINES	Implementation and Configuration need to be completed within two weeks from the date of Purchase Order.	It is highly not possible to complete installation of all the components for all environment and for all three banks in 14 days from the PO acceptance, given minimum of one week to deliver the license and one week to accept the PO itself. Hence request you to rework on the delivery timelines.	Please refer amendment
217	DELIVERY AND IMPLEMENTATION TIMELINES	Developers need to be deployed on site within three weeks from the date of Purchase Order.	For the reason cited in previous question, can you reword as "Developers to be deployed on site within 3 weeks from bank's email request? This way, we can plan the deployment based on actual project progression.	Please refer amendment

218	DELIVERY AND IMPLEMENTATION TIMELINES	Production Support Developers need to be deployed on site within two weeks from the date of Purchase Order.	For the reason cited in previous question, can you reword as "Support developers to be deployed on site within 2 weeks from bank's email request? This way, we can plan the deployment based on actual project progression.	Please adhere to RFP
219	Eligibility -5	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	The M2P ESB/API manager is deployed, up & running in various Banks in India, in view of larger participation and competitive bidding, we would request TNGB to kindly amend this clause as "The bidder should have implemented and running/maintaining any ESB/API manger solution in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches OR should have atleast 200 TPS of running traffic and additionally solution should support minimum 500 TPS in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid"	Please refer amendment
220	Eligibility -6	The bidder should have provided software development services in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	Please clarify, Bank will consider the software development services other than API/ESB bus, we have been working with HDFC Bank, SBI Cards, Kotak Mahindra Bank, IndusInd Bank etc. for products like Pre-paid Cards, Credit Cards, Lending and Digital Banking.	Yes Bank will consider the software development services other than API/ESB bus also.

221	Eligibility 7	The proposed integration solution {OEM by themselves or through reseller(s)} should have been implemented in any State / Central Government / PSU / Banking / Insurance company in India with more than 500 branches in the last three, before the bid opening date. Certificate from the client or Copy of Purchase Order should be submitted along with the technical bid.	The M2P ESB/API manager is deployed, up & running in various Banks in India, in view of larger participation and competitive bidding, we would request TNGB to kindly amend this clause as "The proposed integration solution {OEM by themselves or through reseller(s)} should have been implemented in any State / Central Government / PSU / Banking / Insurance company in India with more than 500 branches in the last three years, before the bid opening date OR the proposed integration solution should support a minimum of 500 TPS and for the same performance report/certificate should be submited. OR Certificate from the client/ Copy of Purchase Order should be submitted along with the technical bid	Please adhere to RFP
222	Paymenet terms	Delivery of all the Software/Hardware and applicable licenses	Since there would be upfront investment required in order to fulfill respective hardware/ application licenses, We would request TNGB to kindly consider 30% of license cost payment along with PO, 30% of license cost on Delivery of Software/ Hardware and applicable licenses and remaining 40% of License cost post successful Implementation and after UAT Signoff	Please adhere to RFP
223	Delivery & Implementation	Implementation and Configuration need to be completed within two weeks from the date of Purchase Order.	Please consider 4 weeks for implementation and Bank to support/provide APIs/interfaces on timely basis.	Please refer amendment
224	Delivery & Implementation	Developers need to be deployed on site within three weeks from the date of Purchase Order.	Please consider 6 -8 weeks as successful bidder need to recruit the developers or transfer from its ongoing operations.	Please refer amendment
225	Eligibility Criteria	The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	1. Please clarify for the Central / State Govt. / PSU references 500 branches are not required as it is applicable only for Banks. We would like to submit some govt references. 2. Please allow NBFC project references to be also considered, for NBFC 500 branch requirement should not be applicable	Please refer amendment

226	Eligibility Criteria	The bidder should have provided software development services in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	Please clarify for the Central / State Govt. / PSU references 500 branches are not required as it is applicable only for Banks. We would like to submit some govt references	Please refer amendment
227		The ESB should offer connectors out of the box at no additional cost. These should include common connectors including but not limited to database, file, email, SFTP, FTP,SAP, Salesforce. com, Twitter, Facebook, MongoDB.	We request the bank to kindly remove the requirement of out of box connectors for twitter and facebook from the requirement	Please adhere to RFP
228		SOAP, Message Transformation Optimization (MTOM), WSDL, WS-Policy, WS-Security, WS-Security X.509 Token Profile, WS-Trust, WS-Reliable Messaging, SAAJ, SOAP with attachments API for Java, JSR 67.	We request the bank to kindly remove the requirement for WS -RM and JSR 67	Please refer amendment
229		ESB support security with respect to Data: Data at Motion/Transit, Data at Rest	We request the bank to kindly remove the+G4 requirment for Data at REST	Please adhere to RFP.
230		ESB should provide SLAs to be measured and monitored (such as their number of errors, minimum and maximum response times, and number of processed messages).	We request the bank to have this requirement to be part of container service mesh	Please adhere to RFP.
231		The ESB should offer flexible persistence options. It should support a variety of persistence options including no persistence, file system persistence, using a database	We request the bank to kindly let us know what is Persistence use case here, please ellaborate	The ESB should have capability to store any data (messages, logs etc) persistently on multiple options like filesystems, database etc.
232		ESB shall support Web Services Standards like WS-Security, WS-RM etc.	We request the bank to kindly remove the requirement of WS-RM	Please refer amendment
233		ESB should support creation of APIs from legacy and modern data sources through automation and business logic for handling dedicated tasks	We request the bank to kindly ellaborate on the use case and requirement	Please refer amendment
234		ESB should support large data transfer with proven speed based on increase in network capacity	We request the bank to elaborate on the use case and requirement. As it depends on the end system not on esb	Please adhere to RFP. All performance metrics will be calculated excluding any external dependencies.

235		High performance/in-memory Database should be provided as part of overall solution which supports distributed in-memory storage, geo-replication if required for storing any config and analytics data should be included as well. Highest edition/level of license and highest level of enterprise support for the concerned database should be included as part of the solution.	Kindly confirm if Redis or in-memory DB would provided by Bank, if no, what Data size and replication factor shall we consider to size this component as part of the solution	Any specification as required by the RFP has to be fulfilled by the bidder
236		High performance/in-memory Database should be provided as part of overall solution which supports distributed in-memory storage, geo-replication if required for storing any config and analytics data should be included as well. Highest edition/level of license and highest level of enterprise support for the concerned database should be included as part of the solution.	Kindly confirm if Redis or in-memory DB would provided by Bank, if no, what Data size and replication factor shall we consider to size this component as part of the solution	Any specification as required by the RFP has to be fulfilled by the bidder
237		The API Manager should be capable of or include components/modules for validating DoS (Denial of Service) attack, SQL injection and payload size restriction for data types but not limited to JSON/XML. Any external component used to achieve the functionality should have the highest edition/level of license and highest level of enterprise support and has to be included as part of the solution.	Request the Bank to confirm if WAF need to be factored additionally by the Bidder or provided by the Bank.	Any specification as required by the RFP has to be fulfilled by the bidder
238			We request the Bank to suggest the use cases related to the current tender for Observability. Based on the points mentioned in this tender the requirement goes beyond the current requirement.	The observability requirement is not limited to the proposed solution alone.
		5. The bidder should have implemented and	We request the bank to consider OEM/ Subsidiary expereince too and amend the clause as below.	

239		3. The bidder should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	"The bidder/ **OEM/ Subsidiary** should have implemented and running/maintaining any ESB in atleast any 3 Central / State Government agencies / PSU / Banking / Insurance companies/ **NBFCs** in India with more than 500 branches in the past 3 years before the bid opening date. Certificate from the client or copy of purchase order should be submitted along with the technical bid.	Please refer amendment
240			We are eager to participate in the RFP but there are two clauses in the Pre Qualification Criteria in which we don't fit. They are - We are a Mumbai based company but there is a requirement of a support office in Chennai. The turnover value to participate in the RFP has to be 24 Cr whereas our turnover is less than 24 Cr.	Please adhere to RFP
241			We request the bank to kindly confirm on the exact number of developers required, since it has been mentioned in the RFP as 3 developer resources has been asked to work and 10 developer are mentioned to work concurrently, their is contradiction here. Request bank to review and confirm on the exact numbers.	Please refer amendment
242			Since Bank is facilitating virtual infra, request the bank to confirm on available OS within Bank.	Please refer amendment
243			Kindly confirm if Bank needs this much of tps for each bank for its operation. Also kindly confirm if you need 150 KB size of message size	Please refer amendment
240	Observability Solution	Solution should be able to provide full visibility into all the activities from web and mobile application user across all devices, browsers, and geographic locations. (To analyze user data in real-time to assess satisfaction, detect struggles and proactively predict and influence next steps in their digital journey).	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability

241	Observability Solution	The Solution should be able to give full visibility of customer experience across every digital transaction from the frontend to the backend including various interfaces for every transaction.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
242	Observability Solution	The proposed solution should support fully automated monitoring of addition/ removal of VMs/LPARs/Oracle DB/JVMs/Web Servers/IIB processes and queues etc. based on changing load patterns/processes without manual intervention.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
243	Observability Solution	Proposed solution should provide the capability of Infrastructure mapping i.e. Discover all relevant components and their configuration.	This is limited only to Infrastructure and we can leverage the Prometheus & Grafana (Tools available within Openshift/Tanzu)	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
244	Observability Solution	The solution should have a single agent that can be deployed to monitor any technology.	please define the technology that bank wants to monitor.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
245	Observability Solution	The proposed solution should have an in-built AI analytical engine thereby eliminating the need of manually identifying the root cause through multitude of dashboards and reports. (The proposed solution should simplify the operations monitoring process significantly by narrowing down to the correct team to address the problem eg; network, application, server, middleware, or database teams. The objective is to reduce Mean time to Identify (MTTI) and Mean time to Resolve (MTTR).)	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
246	Observability Solution	The solution should be capable of performing prediction-based anomaly detection to identify unusual or unexpected events and measurements within the monitored environment	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
247	Observability Solution	The solution should be able to automatically learn all the traffic patterns and baseline them. And when anomalies are detected within these patterns, it should be able to alert the operations team.	Container Infra : Tanzu/Openshift	The bidder has to propose and supply the infrastructure required for the proposed solution and the mentioned specification has to be complied by the proposed observability solution.

248	Observability Solution	The proposed solution should provide detailed stack trace view of every transaction without sampling right from web server through the app server, middleware all the way to the database. All performance data should be available with a granularity of 1 sec.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
249	Observability Solution	The solution should be able to provide application memory leak analysis, lock contentions, process crash analysis.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
250	Observability Solution	The proposed solution should be able to provide for each individual SQL statement, fired in a transaction, the count of average Rows returned and fetches. It should be able to baseline the performance of every SQL alert on deviation	Scope of Database Monitoring Tool.	Please refer amendment
251	Observability Solution	Solution should monitor the following infrastructure components on the OS - The hosts (CPU, memory, NIC, and storage) - Guest OS running processes. Resource utilization of the virtual management platform (VMware vCenter or standalone ESXi hosts, IBM Power HMC, VIOS, Kubernetes). All the components should be monitored using/ installing a single agent.	Please confirm on the Infrastructure monitoring to the proposed solution stack for the bid.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
252	Observability Solution	The proposed solution should be able to provide same monitoring functionality for Containerized/ Dockerized applications that is available for non-containerized applications. It should provide container centric monitoring perspectives on Containers / Docker images, services, and hosts	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
253	Observability Solution	The proposed solution should monitor automatically the applications running inside the containers without any need to modify the Container/ Docker images, modify run commands.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability

254	Observability Solution	Proposed solution should be able to allow creation of dashboards to show business transaction health and application response time for each and every transaction. The teams must be able to drill down to each of these transactions to see breakup of time spent on webserver, application server, middleware, external components, and database tiers (whatever is part of the individual transaction). There should be no sampling. The solution must be able to capture the business KPIs from POST parameters, Method Arguments (as data objects or variables) Return Values, SOL Bind variables, etc.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
255	Observability Solution	Proposed solution should collect data from monitored systems by using a single agent on each host	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
256	Observability Solution	The solution should be able to automatically detect any deployment changes which may have happened in the application code and the AI engine should correlate that with the any performance issue.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
257	Observability Solution	The solution should be able to perform post deployment auto discovery of most of the technology stack/ components and their dependencies. Without manual intervention. (i.e., It should be able to auto-instrument the applications and middleware (web and app servers, Database, Messaging Queues etc.).	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
258	Observability Solution	The solution should not make changes to application for capturing end user traces.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
259	Observability Solution	Proposed solution should provide full context across the infrastructure and showcase all upstream/downstream application services along with related infrastructure components in one view	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability

260	Observability Solution	Proposed solution should see every anomalous event automatically. It should utilize stream processing to collect and analyze all data in real-time, making incoming data immediately actionable so one can resolve issues without delay.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
261	Observability Solution	The proposed solution should be able to monitor user journey within a visit/session and tracing it back to backend systems.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
262	Observability Solution	The solution should be able to automatically detect databases and showcase its performance and its impact on transaction performance. It should be able to showcase the slow performing SQL Queries or Procedures, deadlocks, errors, slow wait events.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
263	Observability Solution	The Proposed Observability solution should trace integration issues back to their origin and know where to apply fixes.	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
264	Observability Solution	All the components of Integration platform should be monitoring using the same Observability APM solution that is monitoring applications	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
265	Observability Solution	Tracing agents pre-configured to work with Integration platform containers Provide a consistent and holistic monitoring and tracing solution for your Integration estate, regardless of where components are deployed	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability
266	Observability Solution	The proposed Observability Solution should discover complete integration platform components and tracing and call stack for all calls in Integration platform	Scope of APM Tool.	Bank is looking for an APM solution as well as infra monitoring solution as part of observability