

# Pragathi Krishna Gramin Bank

(A Scheduled Bank established by Government of India:

Sponsored by: Canara Bank)

#### Addendum 1 issued on 12 February 2019 towards

# REQUEST FOR PROPOSAL [RFP] FOR "SELECTION OF VENDOR FOR SUPPLY OF NEW GENERATION BLADE SERVERS, RACK SERVER, BACKUP SOLUTION AND ENVIRONMENT SOFTWARE" for

Two Regional Rural Banks (RRBs) Sponsored by Canara Bank viz:

# Pragathi Krishna Gramin Bank

Head Office, Ballari, Karnataka

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#### **Kerala Gramin Bank**

Head Office, Malappuram, Kerala

RFP NO: PKGB: PKGB: PMO:RFP:4/2018-19

# RFP issued by Pragathi Krishna Gramin Bank

Head Office: IT Department 32, Sanganakal Road, Gandhinagar, Ballari – 583103 Karnataka

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# **Addendum 1-List of Revised Appendices:**

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#### 1. ADDENDUM INTRODUCTION

The Bank had issued the Request for Proposal (PMO:RFP:4/2018-19) to the bidders for the Selection of vendor for supply of new generation blade servers, rack servers, backup solution and environment software. As per the terms of the RFP document a pre - bid meeting was held on 21.1.2019 at Bank Premises.

This addendum covers additions, corrections and clarifications to the queries raised by the Bidders, as well as other additional information which Bank considered essential to be furnished to the Bidders to gain a better understanding of the Bank's requirements as part of the RFP. All efforts have been made to provide the maximum available information and answer the pre-bid queries submitted by the Bidders. The Bidders are required to consider the information provided in this Addendum 1 as the latest guidelines in addition to the original issued RFP.

The Bidders have been provided with the clarifications and details through this Addendum 1 and replies to Pre-Bid queries. Please treat this Addendum 1 including the entire pre-bid queries responses provided by the Bank as an integral part of the RFP document issued. Only the sections, clauses, terms referred in this Addendum 1 are revised/updated to the extent revised/clarified. All other terms and conditions of the RFP document remain unchanged.

**General Manager** 

Pragathi Krishna Gramin Bank

#### 2. ADDENDUM

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
1	Section 4.5.1	Term of the	Term of the contract	Update in existing
	Page 7	contract		term

#### **Modified RFP Clause:**

The tenure of the contract would be five years. This five-year period is further divided into 3 years Warranty/Software Assurance and 2 years AMC/ATS period. The Bank will enter into a five-year contract agreement with the selected bidder and will issue a Purchase Order for the five-year contract period.

Sr.	RFP Section	RFP Section	Topic/Area under consideration	Impact on RFP
No.	Page no.	Reference		
2	Section 5 Page No. 8	Detailed Scope of work for the bidder	Point No. 7 – Activity - VM Creation for business applications	Update in existing term

#### **Original RFP Clause:**

The bidder has to create the necessary VMs for the Bank's business applications.

#### **Modified RFP Clause:**

The bidder must create the necessary VMs as tabulated below for the Bank business applications.

Approx. Number of VMs(DC+DR):

DC - 200 VMs (Includes Web, App and DB VMs)

DRC - 160 VMs (Includes Web, App and DB VMs)

Approx. Number of Applications:

DC - 60

DRC - 50

Further details of the Applications will be shared with the selected Bidder.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
3	Section 6 Page 9	Technical considerations of the RFP	Purchase quantities	New clause added
	rage 3	of the RFP		

#### Clause No. 6.18: Purchase Quantities

Bank reserves the right to increase or decrease the quantum of purchase upto 25% in respect to the quantity specified in the Appendix 01 – Bill of materials in the tender at the same rate arrived at on the Terms and Conditions of the Tender during the contract period.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
4	Section 8.5	Service Level	Penalties/Liquidated Damages	Change in existing
	Page 24	Agreement		term

#### **Original RFP Clause:**

- 8.5.1 Penalties/Liquidated damages for delay with respect to project timeline
- 8.5.1.1 Non-compliance of project timeline as defined in section 7.2 will result in the Bank imposing a penalty of 0.5% plus applicable taxes on delay in project timeline per week or part thereof on the total project cost quoted by the bidder. In case the undelivered hardware item renders the entire hardware unusable, then the total value of the entire hardware would be considered for imposing a penalty on the Bidder.

#### **Modified RFP Clause:**

- 8.5.1 Penalties/Liquidated damages for delay with respect to project timeline
- 8.5.1.1 Non-compliance of project timeline as defined in section 7.2 will result in the Bank imposing a penalty of 0.5% plus applicable taxes on delay in project timeline per week or part thereof on the total cost of ownership quoted by the bidder.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
5	Section 9.7.16	Other terms of	Right to Alter Quantities	Update in existing
	Page 32	the RFP		term

#### **Original RFP Clause:**

**9.7.16 Right to Alter Quantities** – Bank reserves the right to alter the requirements specified in the RFP. Bank also reserves the right to delete one or more items from the list of items specified in the RFP. Bank will inform all Bidders about changes, if any. The Bidder agrees that Bank has no limit on the additions or deletions on the items for the period of the contract. Further the Bidder agrees that the prices quoted by the Bidder would be proportionately adjusted with such additions or deletions in quantities. The Bank will have the right to increase or decrease any quantities in the bid and the unit/pro-rata rates would be applicable for such alterations in quantities till the period of the contract.

#### Modified RFP Clause:

**9.7.16 Right to Alter Quantities** – Bank reserves the right to alter the requirements specified in the RFP. Bank also reserves the right to add / delete one or more items to/from the list of items specified in the RFP. Bank will inform all Bidders about changes, if any.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
6	Section 11.4.1	Payment	Hardware Costs (DC and DRC) for all	Update to existing
	Page 47	Terms	hardware as part of the Solution	terms

#### **Original RFP Clause:**

11.4.1 Hardware Costs (DC and DRC) for all hardware as part of the Solution

It is to be noted that the Bidder needs to quote for fully loaded hardware for the Solution.

- 11.4.1.1 70% of the delivered hardware cost would be payable on delivery of all hardware on production of relevant documents and verification of bill of materials by the Bank and signoff from the Bank. Please note that , Originals of invoices (plus one copy) reflecting GST, GSTIN, State code, State Name, taxes and duties, Proof of delivery duly signed by Bank officials should be submitted while claiming payment in respect of orders placed
- 11.4.1.2 15% of the delivered hardware cost would be payable on completion of the six months period post completion of activities mentioned under section 7.1.1 to 7.1.6, an estimated time that the Bank will take to migrate the applications to the new blade server hardware environment including

#### Bank signoff

- 11.4.1.3 5% of the delivered hardware cost would be payable on completion of the hard disk degaussing activity and the completion of the buyback activity of the bidder as per clause 7.1.7 including Bank signoff.
- 11.4.1.4 10% of the total hardware cost shall be paid after the completion of warranty period of three years and on submission of Performance Bank Guarantee for the AMC period including Bank signoff

#### **Modified RFP Clause:**

11.4.1 Hardware Costs (DC and DRC) for all hardware as part of the Solution

It is to be noted that the Bidder needs to quote for fully loaded hardware for the Solution.

- 11.4.1.1 70% of the total hardware cost would be payable on delivery of all hardware on production of relevant documents and verification of bill of materials by the Bank and signoff from the Bank. Please note that , Originals of invoices (plus one copy) reflecting GSTIN, State code, State Name, taxes and duties, Proof of delivery duly signed by Bank officials should be submitted while claiming payment in respect of orders placed
- 11.4.1.2 15% of the total hardware cost would be payable on completion of the six months period post completion of activities mentioned under section 7.1.1 to 7.1.6, an estimated time that the Bank will take to migrate the applications to the new blade server hardware environment including Bank signoff
- 11.4.1.3 5% of the total hardware cost would be payable on completion of the hard disk degaussing activity and the completion of the buyback activity of the bidder as per clause 7.1.7 including Bank signoff.
- 11.4.1.4 10% of the total hardware cost shall be paid after the completion of warranty period of three years or on submission of Warranty Bank Guarantee for an amount equivalent to 10% of the total hardware cost after completion of the activity mentioned in Clause 11.4.1.3. The Warranty Bank Guarantee format will be shared with the selected bidder.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
7	Section 11.4.4	Payment	Virtualization Software	Change in existing
	Page No.48	Terms		term

#### **Original RFP Clause:**

#### 11.4.4 Virtualization software

- 11.4.4.1 50% of cost for the virtualization software would be payable on delivery of the software and successful installation at the DC and DRC including Bank signoff
- 11.4.4.2 30% of the cost of the virtualization software would be payable upon completion of 6 months from the date of successful installation of the Bidder at the Bank and creation of requisites VMs as desired by the Bank including Bank signoff.
- 11.4.4.3 20% of the cost for virtualization software would be payable on completion of 12 months from the date of successful installation of by the Bidder at the Bank Including Bank signoff.

#### **Modified RFP Clause:**

#### 11.4.4 Virtualization software

11.4.4.1 80% of cost for the virtualization software would be payable on delivery of the hardware and successful installation of the software at the DC and DRC on such hardware including Bank signoff 11.4.4.2 20% of the cost for virtualization software would be payable on completion of 12 months from the date of successful installation of Virtualization software by the Bidder at the Bank.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
8	Section 11	Payment	Overall Payment Terms	Addition of new
	Page 48	Terms		clauses

#### **Modified RFP section:**

In addition to the Section 11 – Payment Terms further points are mentioned as follows. The Bidders need to consider the below while quoting for the RFP

#### New Clause No 11.4.10 (to be read in addition to clause number 11.4.2 to 11.4.6)

In the case of Operating System, Database Software, Virtualization software, Backup software or any other software (from Clause No.11.4.2 to 11.4.6) 20% of the cost for respective software would be payable on completion of 12 months from the date of acceptance of such hardware and successful installation of the software at the Bank or on submission of Bank Guarantee equivalent to 20% of the total software cost in concern. The Bank Guarantee format will be shared with the selected bidder. The bidders have to note that the implementation of the Backup solution would be undertaken by the Bank.

#### New Clause No 11.4.11

The Software Assurance period for the Operating System and Database wherever applicable should begin post the installation of the software in the installed hardware after intimation to the Bank.

Sr. No.	RFP Section Page no.	RFP Section Reference	Topic/Area under consideration	Impact on RFP
9	Section 11.4.8 Page 49	Payment Terms	Implementation cost for the Operation System, Database, Backup software, Virtualization software, and configuration of DC-DRC replication	Update to existing terms

#### **Original RFP Clause:**

- 11.4.8 Implementation cost for the Operation System, Database, Backup software, Virtualization software, and configuration of DC-DRC replication
- 11.4.8.1 50% of the cost of the implementation would be payable upon successful completion of the installation of Operating System, Database, Backup Software, Virtualization Software including Bank Signoff
- 11.4.8.2 50% of the cost of the implementation would be payable upon successful completion of the DC-DRC replication and completion of buy back activity by the bidder including Bank signoff

#### **Modified RFP Clause:**

- 11.4.8 Implementation cost for the Operation System, Database, Backup software, Virtualization software, and configuration of DC-DRC replication
- 11.4.8.1 50% of the cost of the implementation would be payable upon successful completion of the installation of Operating System, Database, Backup Solution configuration, Virtualization Software including Bank Signoff
- 11.4.8.2 50% of the cost of the implementation would be payable upon successful completion of DC-DRC replication for all applications, re-configuration of VMs as applicable and completion of buy back activity including Bank signoff

The bidders have to note that the implementation of the Backup solution would be undertaken by the Bank.

End of document
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# 1. Eligibility Criteria

Interested Bidders, for the said RFP in the Bank and meeting the following Eligibility Criteria may respond:

	espond:	Commenting description
SI no	Eligibility criteria	Supporting documents
1	The bidder should be a registered company in India as per Companies Act 1956. The Certificate of Incorporation issued by Registrar of Companies are required to be submitted along with the technical bid.	Certificate of Incorporation / Certificate of Commencement
2	The Bidder should have a minimum turnover of Rs. 50 (Fifty) Crores per annum from IT sales in each of the last three financial years In India. le 2015-16 2016-17 2017-18	Audited Financial statements for the financial years in concern  AND  CA Certificate indicating the IT sales Turnover for the previous financial years mentioned above.
3	The Bidder should have positive net worth as on 31.03.2018.	The Bidder must produce certificate from the Company's Charted Accountant to this effect
4	Blacklisting or debarring of the Bidder if any by any Government entity, Bank or Financial Institution should not be in vogue as on date of submission of Bid. Bidder must certify to that effect.	Self- Declaration on Bidder's letter head signed by CFO/ Person Authorized by CFO
5	Bidder should have service/support infrastructure at Mumbai and Bengaluru, and should be able to provide efficient and effective support	Self- Declaration on Bidder's letter head and list of the service centers in Bengaluru and Mumbai
6		Letter from each solution OEM authorizing the Bidder to participate in the RFP as per Appendix 03 – Manufacturing Authorization Form.
7	The Bidder should have at least one of the following accreditations/ certifications which is valid as on submission date of this RFP A) ISO 9000 / 9001 B) ISO 27001:2005 or equivalent C) ISO 27001:2013 D) CMMI Level 5	Certificate copy to be provided

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8	The Bidder should have, in last 3 years, supplied similar hardware solution in any Govt. Department/ Public Sector Unit/Scheduled Commercial Bank in India for the purpose of hosting business and technology applications.  POCs done will not be treated as experience of the Bidder.	The Bidder has to provide purchase order copy/credential letter from the organization where it is implemented in India.
	OEMs experience	
1	The blade and rack servers should be live in a Bank in India	Relevant Credential letters from the Bank where it is implemented OR Purchase Order along with Self Declaration certifying to that effect, signed by CFO / Person Authorized by CFO, along with the seal of the Bidder's company / firm.
2	The proposed chassis, blade server or any other ecosystem hardware proposed should not have been declared end of sale as on date of bid submission and must be under OEM support for the contract period	Self- Declaration on OEM's letter head
3	Blade server OEM must be listed in the Leaders Quadrant of the latest available Gartner Magic Quadrant for Modular Servers	Leaders Quadrant for Gartner Magic Quadrant for Modular Servers 2016
4	Virtualization software proposed must be listed in the Leaders Quadrant of the latest available Gartner Magic Quadrant for X86 Server virtualization software	Leaders Quadrant for Gartner Magic Quadrant for X86 Server virtualisation software as of August 2016

#### NOTE:

- 1 In case of business transfer where Bidder has acquired a Business from an entity ("Seller"), work experience credentials of the Seller in relation to the acquired Business may be considered
- 2 Bidders need to ensure compliance to all the eligibility criteria points.
- 3 In case of corporate restructuring of a company, certificate of incorporation, financial statements, credentials prior to such restructuring could be furnished
- 4 Banks refer to public sector / Private Banks/ Regional Rural Banks in India only.
- While submitting the bid, the Bidder is required to comply with inter alia the following CVC guidelines detailed in Circular No. 03/01/12 (No.12-02-6 CTE/SPI (I) 2 / 161730 dated 13.01.2012): 'Commission has decided that in all cases of procurement, the following guidelines may be followed:
  - In a RFP, either the Indian agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same RFP.

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- If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same RFP for the same item/product.
- 6 The decision of the bank shall be final and binding in this regard. Any deviations will be ground for disqualification.

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Blade Server, Blade Chassis, Rack Server, minimum technical specifications

### **Table of contents**

#	Sheet
1	Blade Chassis
2	Blade Servers
3	Rack Servers

A. Blade Chassis  B. Power  C. Cooling	4	Specifications  Blade chassis to accommodate minimum of 8 Quantities of 2CPU Half Height/Width and 4 or more quantities of 4CPU Full Height/Width hot pluggable blade servers  The chassis should be the latest generation chassis offered by the OEM	(Yes/No)	Remarks
B. Power	4	pluggable blade servers		
B. Power	4	The chassis should be the latest generation chassis offered by the OEM		
B. Power	4	The chassis should support a minimum of 8 dual sockets OR the chassis should support 4 Quad socket servers		
	5	The blade chassis must mandatorily support 4 socket blades. The blade chassis should support latest generation intel processor v5 family		
	6	The chassis should be able to host the latest server offered by the OEM and future generations (at least two) without any change in management		
	1	or without adding additional chassis.  The enclosure should be populated fully with power supplies of the highest capacity.		
	2	Power supply should meet the Energy 80 Plus certification		
C. Cooling	3	The power subsystem should support N + N power redundancy (where N is atleast equal to 2). the Power and cooling should be capable of populating the entire chassis with 28 Core CPUs and maximum memory (3Tb for Dual Socket servers		
C. Cooling	4	and 6Tb for Quad socket Servers) as per intel specifications for 2 and 4 socket servers respectively  Each blade enclosure and chassis should have a cooling subsystem consisting of redundant hot pluggable fans or blowers enabled with		
	1	technologies for improved power consumption and acoustics		
	1	The chassis IO modules populated must support FCoE, FC, Ethernet and iSCSI. The IO module can be internal or external to the chassis. In both the cases the interconnects should be redundant.		
		Blade chassis should provide complete IO redundancy to blade server to provide maximum uptime.		
D. Chassis	2			
connectivity	3	A blade should be able to use all the network modules in a chassis for connectivity from the chassis to the outside.		
	4	All Network and management modules should be populated fully to ensure redundancy.		
	5	The Blade solution should provide minimum 4 Uplinks per redundant Internal/External Switch module to connect to LAN & SAN network.		
		Administrators should have the ability to set a cap on the maximum power that the chassis can draw in order to limit power consumption for non		
	1	critical applications		
	2	Redundancy and HA should be built in the management subsystem so that if one management module/solution fails other should be able to take over automatically.		
	3	Management solution should be able to manage all blade servers across more than one chassis within Datacenter from a single console.		
		If the management solution runs as a virtual machine, then all hardware and software licenses to enable this should be included. Also the virtual		
	4	machine should have HA enabled on day 1 and have an active redundant Virtual machine running for the same.		
		Role Based Access Control so that the resources can be managed by respective resource administrator.		
	6	High availability for the management solution hardware and software should be built in the design.  The management solution should be able to provide details about properties and status of Server BIOS Settings, Memory and adapters. It should		
	7	also an overview of the status of the server including a summary of any faults.		
	8	Should support Integration with the Microsoft Active Directory groups or other industry standard LDAPs The Management Software should be from the OEM as of the Blades and Chassis and should be able to manage all the proposed Servers in the site		
	9	from a single dashboard.  Through appropriate licensess the management software should be able to provide Single Pane of Glass view management for the Blade Servers		
	10	together in a given location.		
	11	Supports a stateless environment where server identity is created by the administrator who defines the server BIOS version, MACID, NIC firmware version, WWPN, FC-HBA firmware version, Adapter QoS, Management module firmware version, UUIDs, Server Boot Policies, KVM IP etc. The		
	11	identity must be stored outside the server in a central location with HA		
	12	The componenets of the server identity/profile should be configurable via the same server management interface. An administrator should not have to go to different dashboards to configure SAN, LAN, BIOS Settings all fo these should be available from the same workflow.		
	13	It should also have the capability to enforce policies in the system BIOS settings and configuration, so once administrators define a common policy for a server BIOS, all subsequent deployments use this policy.		
	14	Server identities that are created and linked to the master server identity inherits any modifications done to the master identity. Example, the version of the Server BIOS is changed in the master identity and all linked server identities inherit the new modified Server BIOS version.		
	15	A server identity that is previously linked to a master identify can be delinked from master identity.  Firmware upgrade / rollback should be possible for all the components in the infrastructure including the server, chassis management modules,		
E. Blade	16	Ethernet switch modules, SAN switch modules, Other IO modules from the same console that is used to manage the individual blades		
Management	17	Role Based Access Control so that the resources can be managed by respective resource administrator. Parent administrator still have control		
	18	over resources under their respective child resources  Centralized and embedded management with seamless high availability built into the infrastructure.		
	19	The management software should provide all the required APIs for integrating with management/automation services like Chef, Puppet and		
	20	Ansible.  Movement of server identity from one slot / server to another in the event of server failure .		
	21	Automated call home capability in the event of critical server failure or thresholds that are crossed which could impact server performance or		
	22	customer SLA.  Should support Native integration with industry standard hypervisors from OEMs like Vmware, Microsoft, Oracle, etc		
	23	All Management modules should be redundant on day 1. Management modules should not be isolated to a single chassis. If that is the case, the modules should have redundancy spread across other chassis.		
	24	At times of a chassis faiure, the functionality of the other chassis should not be impacted in any way. All required modules for redundancy of this		
	25	kind should be populated on day 1.  All Chassis should be managed via a single management module. The Management module should be redundant		
	26	The Management software should manage at least 10 chassis under a single domain.		
	28	The management software should be able to manage at least 50 blades within the same domain.  Supports multiple level of authentication methods including TACACs+, LDAP and RADIUS		
		The offered Management Software should be able to Support multiple Server nodes across more than one Blade chassis and virtual machines running on these nodes.		
	30	The offered Management software should be capable of policy-based management using server profiles and templates. The management		
		software must be license with highest possible license.		
		The Management software should be from the Hardware OEM only.		
	32	The management software should participate in server provisioning, device discovery, inventory, diagnostics, monitoring, fault detection, auditing, and statistics collection.		
	22			
	33	It should suport remote KVM capability from an external keyboard, video monitor and mouse to all blades installed in the chassis through the redundant management controllers.		
	34	All Blades in the DC should be managed via a single plane of glass.		
		All Blades in the DR should be managed via a single plane of glass.		
		Automated workflow for resource allocation  Remote KVM should support up to 4 active sessions		
		Should include all necessary licenses for management for a fully loaded chassis. On day 1. All management module licenses if any should be		
	1	included on day 1.		
F. Licensing		If the management system runs as a virtual machine, then all hardware and software licenses to enable this should be included (eg. 2 physical		
	2	servers + hypervisor license cost + cost of shared storage + OS licenses for the 2 VMs + the shared Database license for failover + any other		
		software or hardware elements )		
		Blade chassis must have a BIS Certification.		
G. Certification	1			

#### 3 Blade server technical specifications

Item	#	Specifications	Compliance (Yes/No)	Remarks	
A. CPU	1	All blade servers must support latest generation Intel Scalable V5 processors			
B. Memory Requirement	1	Memory DIMMS must be 32GB DIMMs or higher and dual rank			
C. Processors	1	Each blade shall have 2 CPU or 4 CPU sockets.			
D. Chipset	1	Intel chipset compatible with the offered processors as per RFP			
E. Storage	1	Server should be configured with minimum 2 Nos of 300 GB 12Gbps SAS 10K HDDs in Raid 0,1. The server should also support minimum two M.2 drives.			
	2	The Blade must support for Boot from SAN			
F. Memory	1	The Blade memory should be scalable to 3TB			
G. Network	1	The Blade server should support Converged Network Adapter, which aggregates both the Ethernet and FC connectivity on a single controller			
	2	The Blade server should support redundant Ethernet & redundant Fiber HBA's if converged solution is not provided. Redudancy should be provided on physical level			
	3	The server should provide an aggregated Bandwidth of 80 Gbps or 160Gbps			
	4	Each Blade should have redundant network Connectivity to all the Chassis Interconnect modules.			
		Blade server must be populated with all internal slots with Network cards to offer maximum throughput to the overall Network. This network cards should be of highest speed avilable with the OEM			
H. Others	1	The Blade should be hot pluggable and hot swappable			

#### Blade server technical specifications

Item	#	Specifications	Compliance (Yes/No)	Remarks
Processors		Rack Server shall have a minimum of two (2) Intel latest generation Processors		
Chipset	Intel chipset compatible with the offered processors.			
		The server should Support upto 8 hot-swappable SAS,NL-SAS and SSD drives .		
Internal Storage		Server should be configured with 3 Nos 1200 GB 10K RPM 12G SAS Drives.		
internal Storage	- 1 - 1	The Server RAID controller should support the following configurations RAID 0, 1, 5, 6		
	-	configured minimum with 2GB of Flash backed write cache module.		
	- 1 - 1	Support for advanced memory redundant technologies like Advanced error-correcting		
		code (ECC) and memory mirroring		
	_	Should have 2 * 10 GbE (embedded) LAN ports		
Network	- 1 - 1	Should provide minimum Redundant Dual 10G optical ports. Same adapter shoud be		
	-	able to Support 40G ports for future scalability.		
SAN Connectivity	_	Should provide Redundant Dual port 16Gbps FC HBA.		
PCIe Slots	- 1 - 1	5 x PCIe Generation 3.0 I/O expansion slots (atleast 3 Nos of PCI-e x8 FL, FH and 2 Nos		
1 616 51615	-	of PCI-e X16 slots )		
	- 1 - 1	Should support out of band upgrades, Agentless out-of-band management, integrated		
	- 1 - 1	diagnostics and Power monitoring and reporting, Power capping. Console record and		
		play, Virtual Media, HTML5 remote control.		
Management		The server should support industry standard management protocols like IPMI v2 and		
aragement	Ш	SNMP v3		
	Ш	One 1-Gbps RJ-45 management port		
	l l'	The server should support multiple management interfaces including web user		
		interface and command line interface.		
		Should have the following ports for server connectivity		
Ports		• 1 serial port		
1013		• 4 USB 3.0/2.0 ports		
		• 1 VGA video port		
Others		Supports hot swappable redundant power supplies & Fans.		
Others		Rail Kit and cable mangement arm to be provided along with the server		
0		Microsoft Windows Server ,Red Hat Enterprise Linux (RHEL) ,SUSE Linux Enterprise		
Operating Systems Support		Server (SLES)		
Warranty	ty Server should have 05 years warranty			
Form Factor	20			

Tender #PMO:RFP: 04/2018-19:

# Addendum 1 - Appendix 04 – Letter from blade server hardware OEM

То		Date: DD/MM/YY			
Gen	neral Manager				
Can LIC	gathi Krishna Gramin Bank Iara Bank RRB, CBS Project Office, "Jeevan Soudha" Building, First Floor, 19, 24th Main Road, 1st Phase, J P Nagar, Be	engaluru- 560078			
Dea	ar Sir,				
REF	: Your RFP No.: XX/20XX-XX dated XX-XX-2	0XX			
	, the manufacturers ofde servers, herby, agree that				
	We are providing, as part of this RFP, a 24/7 response in case of hardware failure during operations. Our response time will not be not more than 4 hours. We have provisioned and are quoting for appropriate warranty for meeting the requirements through our bidding partner.				
	We also ensure that all the hardware respective offices in Bangalore and Mumb	component spares are readily available from our pai.			
3.		te back lining arrangement with the bidder name such that the Service Level requirements of this RFP			
4.	(including management software upgrade release / announcement, we the OEM as / distributor / System Integrator to provibank and install the same at the Banks provided the same at the	n their obligations to provide the product upgrades es and new product feature releases) within 30 days of sume complete responsibility on behalf of the partner de the same to the bank at no additional cost to the emises.			
	·	bove is covered as			
	(Provide details of warranty program)				
Date	ed thisbyby	20			
Aut	horised Signatory				
	me: Contact Person, Phone No., Fax, E-ma is letter should be on the letterhead of the	il) Vendor duly signed by an authorized signatory)			

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