

GP Parsik Bank amendment

Amendment published post Pre-Bid meeting at bank HO dated 18-Feb-2017.

A. Schedule Changes

Last Date and Time for submission of tender response	2 nd March 2017 Till 1:00 PM
Date and Time of opening of technical and commercial tender	2 nd March at 4.00 pm

B. Compliance sheet

Compliance sheet should be included in the technical bid envelop.

C. Material Delivery for DC and DR

Material for DC should be delivered to DC Mumbai location and Material for DR should be delivered at DR site pune location only.

D. Revised BOM

All amendments/changes in BOM are marked in RED color.

- All Microsoft Windows OS licenses should be paper license not OEM.

[A] HARDWARE-Primary Site		
Sr.no	Description	Quantity
1	<p>Database Server (Production) - Active/Passive - Rack/Blade Mountable</p> <ul style="list-style-type: none"> • Dual processor box <ul style="list-style-type: none"> ○ IBM ○ Processor: IBM Power8 S822 ○ Processor Quantity: 2 ○ Cores per socket: 10 ○ Clock Speed: 3.42 GHz ○ AIX latest version with Active/Passive clustering ○ Two Active Passive Clusters with LPAR ○ Cores to be licensed per server per socket: 6 OR ○ HP ○ Processor: HP Itanium 9560 ○ Processor Quantity: 2 ○ Cores per socket: 8 ○ Clock Speed: 2.53 GHz ○ HPUX latest version with Active/Passive clustering ○ Two Active Passive Clusters with VPAR ○ Cores to be licensed per server per socket: 8 OR ○ Oracle-Sun ○ Processor: SPARK S7-2 ○ Processor Quantity: 2 ○ Cores per socket: 8 ○ Clock Speed: 4.27 GHz ○ Solaris latest version with Active/Passive clustering ○ Two Active Passive Clusters with LDOM ○ Cores to be licensed per server per socket: 8 <ul style="list-style-type: none"> • 512GB PHYSICAL RAM • Four 900GB+ SAS 10K rpm HDD configured with raid 1+0 • Redundant Power Supply • DVD R/W - In case of external one with each server. • Two 16GB HBA cards corresponding to the storage box (Total Four Port) • Two 10/20 Gigabit dual port Ethernet Cards (Total 4 ports) • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation • In case vendor is proposing UNIX servers in blade form factor it should be in separate chassis. 	2
2	Storage Box - Production	

	<ul style="list-style-type: none"> • Fibre Storage having 2 controllers with 32GB cache per controllers expandable to 64 GB (64GB total control cache expandable to 128GB) • Controllers shall be true active-active • 400GB/480GB MLC SSD disks with RAID 1+0 and hot spare • (Total disks 21)-Prod Data • 1.2TB SAS 10K rpm disks with RAID 5 and hot spare • (Total disks 13)- Backup/Archive • Dual power supply • With Five year warranty and 6 Hour CTR (Call To Resolution) • Reference Models : HP 8400, IBM V7000, EMC Unity 400 • Vendor should quote as per specification reference models are considered as reference only. • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
3	Storage Box - MIS	
	<ul style="list-style-type: none"> • Fibre Storage having 2 controllers with 32GB cache per controllers • (Total cache with all controller is 64GB) • Controllers shall be true active-active • 400GB/480GB MLC SSD disks with RAID 5 and hot spare • (Total disks 11)- MIS Data • 1.2TB SAS 10K rpm disks with RAID 5 and hot spare • (Total disks 25)- App/History/CTS/dumps • Dual power supply • With Five year warranty and 6 Hour CTR (Call To Resolution) • Reference Models : HP 8200, IBM V7000, EMC Unity 400 • Vendor should quote as per specification reference models are considered as reference only. • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
4	SAN Switch	
	<ul style="list-style-type: none"> • Two 16Gbps SAN Switch with all 24 ports populated 	2
5	Backup Tape Library (Production)	
	<ul style="list-style-type: none"> • Should support online RDBMS LAN FREE backup • Drive: LTO 7 • Number of drives: Single – One host backup once • Number of cartridges: 24 Data and 1 cleaning • Data Transfer Rate: More than 250 MBps native • SAN Switch Connectivity • With Five year warranty and 6 Hour CTR (Call To Resolution) • Software required to manage online RDBMS LAN Free backup and restore for Prod-Active, Prod-Passive, MIS-Active, MIS-Passive and DR DB server. • Backup software capable of taking online RDBMS backup, application file backup and individual VM as well as host application server backup. • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Two years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors 	1

and all required materials and installation

6	<ul style="list-style-type: none"> • Blade Center with Blades 	
Blade Center	<ul style="list-style-type: none"> • Single blade chassis should accommodate at least 8 Blades servers • Should accommodate Intel Processor based Blades • Should have the capability for installing industry standard flavours of Windows, Linux Operating Environments • Hot Swap / External DVD ROM should be provided in the Chassis. • The enclosure should support FC SAN switches with at least 8/16 Gb FC uplinks and downlinks to all server bays • Min. USB Ports in the rear and 2 ports on the front of the chassis • Min. 2 hot-plugs, redundant 10/20 Gbps downlinks and Uplinks per switch. • The Blade server should support 10/20GBPS N/W Adapter • Should support simultaneous housing of FCoE, Ethernet, FC, SAS offering Hot Pluggable & Redundancy as a feature • Chassis should have an integrated tool that can provide a view of the actual power used and can effectively allocate, match and cap power and thermal limits in the data centre at the system, chassis or rack level. • Should support Hot Pluggable & Redundant Management Modules with on-board KVM functionality • System Management software should have Remote management features with License included for the warranty period. • N+N redundant power supply • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
Type A Servers	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2698V4 (20 Core) * 2 (Two Proc) • RAM: 256GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Data Centre Edition 64 bit • VMware vSphere Standard Processor License • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation along with VMWare HA 	4

VMWare Manage	VMWare Management: VMware Vcenter standard Management lic-1	1
Type B Servers	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2698V4 (20 Core) * 2 (Two Proc) • RAM: 160GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Data Centre Edition 64 bit • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
Type C Servers	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2698V4 (20 Core) * 2 (Two Proc) • RAM: 64GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Standard Edition 64 bit • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	6
8	Rack Application Servers	
	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2680V4 (14 Core) * 2 (Two Proc) • RAM: 64GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Standard Edition 64 bit with standalone • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation • Creating PDC and BDC at DC/DR • Full Active Directory Migration from existing setup to new setup. 	4
9	KVM Switch (Production)	
	<ul style="list-style-type: none"> • Analog KVM Switch - 24 ports - view all ports in single dashboard. • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
10	Rack (Production)	

	<ul style="list-style-type: none"> • 42 U Full rack • 800 mm x 1000 mm with 4 castors • MCB, Earthling kit • A/C power panel with min four 5/15 Amp sockets • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	3
11	LCD (Production)	
	<ul style="list-style-type: none"> • Master view LCD control with keyboard and mouse • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
12	Anti-Virus Solution	
	<ul style="list-style-type: none"> • McAfee Centrally managed Antivirus enterprise solution for servers and desktops using lowest resources like CPU, MEM and network • Supporting most flavors of Windows platform which may include features like: <ol style="list-style-type: none"> 1. Antispam 2. Detection of malware such as viruses, worms, Trojans, spyware, adware, bots, zero-day threats and rootkits. 3. Proactive Threat scanning 4. Must provide for single software updates, single policy updates. 5. Must provide for central reporting 6. Must provide for unified licensing and maintenance 7. Device control (optional) 8. Application control (optional) • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	100
13	Windows CAL	
	<ul style="list-style-type: none"> • Windows Device CALs 	850

***** the quantities mentioned are only indicative and Bank may change or increase the number of servers and other items**

[B] HARDWARE-DR Site		
Sr.no	Description	Quantity
1	Database Server (DR) Rack Mountable	
	<ul style="list-style-type: none"> • Dual processor box <ul style="list-style-type: none"> ○ IBM ○ Processor: IBM Power8 S822 ○ Processor Quantity: 1 ○ Cores per socket: 10 ○ Clock Speed: 3.42 GHz ○ AIX latest version with LPAR ○ Cores to be licensed per server per socket: 4 <p>OR</p>	1

	<ul style="list-style-type: none"> ○ HP ○ Processor: HP Itanium 9560 ○ Processor Quantity: 1 ○ Cores per socket: 8 ○ Clock Speed: 2.53 GHz ○ HPUX latest version with VPAR ○ Cores to be licensed per server per socket: 8 OR ○ Oracle-Sun ○ Processor: SPARK S7-2 ○ Processor Quantity: 1 ○ Cores per socket: 8 ○ Clock Speed: 4.27 GHz ○ Solaris latest version with LDOM ○ Cores to be licensed per server per socket: 8 • 256GB PHYSICAL RAM • Four 900GB+ SAS 10K rpm HDD configured with raid 1+0 • Redundant Power Supply • DVD R/W • Two 16GB HBA cards corresponding to the storage box (Four port) • Two 10/20 Gigabit dual port Ethernet Cards (Total 4 ports) • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	
2	Storage Box (DR)	
	<ul style="list-style-type: none"> • Fibre Storage having 2 controllers with 32GB cache per controllers expandable to 64 GB (Total cache 64GB expandable to 128GB) • Controllers shall be true active-active • 400GB/480GB MLC SSD disks with RAID 1+0 and hot spare (Total disks 21)-Prod data • 1.2TB SAS 10K rpm disks with RAID 5 and hot spare (Total disks 15)- Backup/Archive • Dual power supply • One 16Gbps SAN Switch with all 24 ports populated • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation • Reference Models : HP 8400, IBM V7000, EMC Unity 400 	1
3	Backup Tape Device (DR)	

	<ul style="list-style-type: none"> • Should support online RDBMS LAN FREE backup • Drive: LTO 7 (Compatible to DC) • Number of drives: Single – One host backup once • Data Transfer Rate: More than 250 MBps native • SAN Switch Connectivity • Software required to manage online RDBMS LAN Free backup and restore for DR DB server. • Backup software capable of taking online RDBMS backup, application file backup and individual VM as well as host application server backup. • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
4	DR Blade Center With Blade Servers	
	<ul style="list-style-type: none"> • Single blade chassis should accommodate at least 8 Blades servers • Should accommodate Intel Processor based Blades • Should have the capability for installing industry standard flavors of Windows, Linux Operating Environments • Hot Swap DVD ROM should be provided in the Chassis. • The enclosure should support FC SAN switches with at least 8/16 Gb FC uplinks and downlinks to all server bays • Min. USB Ports in the rear and 2 ports on the front of the chassis • Min. 2 hot-plugs, redundant 10/20 Gbps downlinks and Uplinks per switch. • The Blade server should support 20GBPS N/W Adapter • Should support simultaneous housing of FCoE, Ethernet, FC, SAS offering Hot Pluggable & Redundancy as a feature • Chassis should have an integrated tool that can provide a view of the actual power used and can effectively allocate, match and cap power and thermal limits in the data centre at the system, chassis or rack level. • Should support Hot Pluggable & Redundant Management Modules with on-board KVM functionality • System Management software should have Remote management features with License included for the warranty period. • N+N redundant power supply • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
Blade Servers Type-A	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2698V4 (20 Core) * 2 (Two Proc) RAM: 256GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Data Centre Edition 64 bit • VMware vSphere Standard Processor License • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation along with VMWare HA 	3
	VMWare Management: VMware Vcenter standard Management lic-1	1

5	Rack Application Servers	
	<ul style="list-style-type: none"> • Processor : Intel Xeon E5-2680V4 (14 Core) * 2 (Two Proc) • RAM: 32GB • Two 900GB 10k rpm SAS RAID 1 • One 16GB HBA Two Port card corresponding to the SAN box • One 10/20 Gigabit Two port Ethernet Card (Preferable 20gbps) • Windows Standard Edition 64 bit with standalone • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	2
5	KVM Switch (DR)	
	<ul style="list-style-type: none"> • Analog KVM Switch - 12 port s should have functionality to view all ports in single dashboard. • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
6	Rack (DR)	
	<ul style="list-style-type: none"> • 42 U Full rack • 800 mm x 1000 mm with 4 castors • MCB, Earthling kit • A/C power panel with min four 5/15 Amp sockets • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
7	LCD Monitor (DR)	
	<ul style="list-style-type: none"> • Master view LCD control with keyboard and mouse • Five years warranty • Five years 24 x 7 support • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1

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[C] NETWORKING-Primary Site		
Sr.no	Description	Quantity
1	Router (Production)	
	<ul style="list-style-type: none"> • CISCO 4451 • Fast Ethernet WAN port (1gbps): Minimum 8 • Smart Serial Interface port (V35): Minimum 6 • DRAM: Min. 4GB • Flash RAM: Min. 8GB • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution 	2

	<ul style="list-style-type: none"> • Three years extended AMC • With all standard accessories and cluster installation 	
2	L2 Switch (Production)	
	<ul style="list-style-type: none"> • CISCO 2960X • 48 10/100/1000Mbps PORTS • 10gbps uplink port • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories and failover cluster installation 	4

*** the quantities mentioned are only indicative and Bank may change or increase the number of items

[D] NETWORKING-DR Site		
Sr. No.	Description	Quantity
1	Router (DR)	
	<ul style="list-style-type: none"> • CISCO 4451 • Fast Ethernet WAN port (1gbps): Minimum 8 • Smart Serial Interface port (V35): Minimum 6 • DRAM: Min. 4GB • Flash RAM: Min. 8GB • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1
2	L2 Switch (DR)	
	<ul style="list-style-type: none"> • CISCO 2960X • 48 10/100/1000Mbps PORTS • 10gbps uplink port • Five years warranty • Five years 24 x 7 support with 6 hours call to resolution • Three years extended AMC • With all accessories/LED indicator Patch cord/power cables/connectors and all required materials and installation 	1

[F] FMS-Services		
1	FMS Services for 5 years till end of warranty	

	<ul style="list-style-type: none"> • L1/L2 level system engineers in two shifts. • Must have hands on experience of this kind of setup. • Should be able to co-ordinate with OEM for all alerts in DC/DR. • Desktop management remotely from DC. • Install O/S, patches, updates & service packs • Database Backup, restore • Server monitoring, updates & service packs • Active directory management and policy implementation • Performance monitoring (Hardware/OS/DB) • User management • Hardware management • Antivirus Management- including definition updates to servers and monitoring branches • Monitoring DR site remotely with all above and visiting on demand basis • Located @DC from day begin to backup operation in two shifts • Implementing network policies with firewall rules • FMS would start @ first day • Engineers shifts would be adjusted as per banks requirement • Engineers should submit the report on task as per banks requirement. • Engineers would be only technical and selected as per the certification and qualification by interview. • Bank will assign the work to team • Hardware/Networking items may include other desktops and servers procured by bank other than this tender. 	Two Engineers, 7 days week, 8AM-8PM
2	Training	
	1 Week training including Hands on to bank IT team with respect to setup including UNIX CLI.	