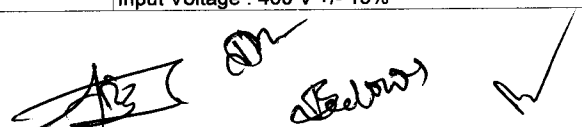


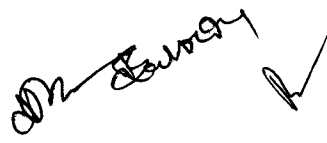

Amend of bidding documents Group - 1 : Data Center Physical Infrastructure

S/L	Annexure / Page No	Item /Section	Existing info	Amended Info
1	General Section page : 2&3	Tender Opening Date	2:00 p.m , 16th June 2016	2:00 p.m , 20th June 2016
2	General Section page : 11	Financial format	Total Cost = (5+6)	Total Cost =((3*4) + 5 + 6)
	Annexure			
3	1.01 (Civil Works	Brick Works	Brick Works Specification	Brick Works will be replace by Dry Wall : Panel Work: Providing and fixing partition Frame work of 50mm x 25mm x 1.2mm thick extruded aluminium box section framework at spacing not exceeding 600mm both ways as per details. Aluminum box sections to be secured to each other with 50mm x 50mm x 1.2mm thick aluminum cleats with sheet metal screws. Framework to be secured to wall surface/column surface closely structural support using farring channel & screw with PVC rawel plug as per details. Horizontal frame members at floor level, skirting level and lintel/false ceiling level to be formed of 50mm x 50mm x 1.2mm thick extruded aluminium box section as per details. Wall Work: Fire rated gypsum board thickness not less than 12mm. This board must be covered full height wall. Also fixed ceiling or column also covered by fire rated gypsum board . Paint Work: Also provide fire retardant paints as spacer at the true ceiling level and sub frames for doors and glazed openings while fixing the frame work as per details. As required as per design
4	1.02 (Raised floor)	Raised Floor	Country of Origin & Manufactory : USA / EU Others Feature : FS Panels combine and advanced steel panel design consisting of uniformly drawn cups with a newly formulated cementations core	Country of Origin : US/EU & Manufactory : Mention by Bidder PR Panels will be made up of inert material Calcium sulphate. The bottom of the panel shall be of 0.05 mm Aluminum foil to create a fire and humidity barrier and this should provide floor's electrical continuity. Panels will remain flat through and stable unaffected by humidity or fluctuation in temperature throughout its normal working life. The Panels will be UL listed/ FM/DM approved.
			Floor Height : Minimum 300 mm - 450 mm	Floor Height : Minimum 450 mm - 600 mm (Same Change will applicable in all required field in RFP)
5	1.03 (Electrical Work)	Scope of Work :	1. Bidder shall Design a Electrical Layout for SJIBL Data Center as per Tier -3 (EPI / UPTIME) compatible 2. As per Design Bidder shall implement the Electrical work at Sjibl Data Center.	1. Bidder shall Design an Electrical Layout for SJIBL Data Center as per Tier -3 (EPI / UPTIME) compatible 2. As per Design Bidder shall implement the Electrical work at Sjibl Data Center. 3. All the electrical pannel should be OEM type Tested .
		Industrial/Commando Socket.	Brand: ABB/Legrand	Brand: ABB/Legrand / Schneider/Siemens/PCE
6	1.04 (COOLING SYSTEM)	Country of Manufacture	To be mentioned by the bidder	Country of Manufacture : Mentioned by bidder (Preferred USA/EU)
7	1.05 (ONLINE UPS SYSTEM)	Country of Origin & Manufacture	USA/EU	Country of Origin : USA/EU & Manufacture : mention by bidder
		Battery Type	Sealed Maintenance Free	Battery Type : Sealed Maintenance Free Same OEM approved battery .
		Battery Charecteristics	Battery with at least 5 years lifetime	Battery with at least 10 years lifetime
8	1.06 (AVR & TVSS)		Input Voltage : 400 V +/- 20%	Input Voltage : 400 V +/- 15%



S/L	Annexure / Page No	Item /Section	Existing info	Amended Info
9	1.07 (Cold Aisle Containment)	Network Rack Assembly	4 Fan	4 fan not required.
		Server Rack Assembly	4 Fan	4 fan not required.
		Sliding Door	<ul style="list-style-type: none"> 47.2"(1200mm)W x 86.6"(2200mm)H Dual sliding doors 8MM Toughened/tempered glass, with TCP/IP Locking system. Remote control to open/Close the door. 	<ul style="list-style-type: none"> 47.2"(1200mm)W x 86.6"(2200mm)H Dual sliding doors 8MM Toughened/tempered/lexan plexi glass . TCP/IP Locking system not required Remote control is not required
		Mechanical Door		Not required
		Door Access and Control		Not required
		Fire Alarm System		Not required
		Central Management & Monitoring		Not required
10	1.08 (FIRE DETECTION AND SUPPRESSION SYSTEM)	Item	Suppression Agent (GAS) NAF S125	Suppression Agent (GAS) NAF S125 or any tier-3 compliance
		Installation	Installation, Detection Testing, Commissioning	Installation, Detection , Testing, Commissioning and submit Hydraulic calculation report .
11	1.09(ACCESS CONTROL SYSTEM)	TECHNICAL SPECIFICATIONS FOR ACCESS CONTROL SYSTEM (DC , POWER & NOC)	TECHNICAL SPECIFICATIONS FOR ACCESS CONTROL SYSTEM (DC , POWER & NOC)	TECHNICAL SPECIFICATIONS FOR ACCESS CONTROL SYSTEM (DC , POWER , Communication Room & NOC)
12	1.11 (EMS)	Environmental Monitoring System	Technical specification for EMS	EMS (Environmental Monitoring System) will be replaced by DCIM (Data Center Infrastructure Management) (RFP Attached) .
13	1.14(IPDU)	Country of Origin & Manufacture	USA/EU	Country of Origin : USA / EU & Manufacture : Mention by Bidder
		IPDU Output Connections IPDU Cable	16 way combine with Minimum (12) C13 ,(2) C19 3 M Power Cord with 32 A Industrial Plug. 16 P Power Cables (C13 , C19) per IPDU to connect the Device & to connect industrial socket (32 A) should be provided	Minimum 20 way combine with Minimum (16) C13 ,(4) C19 1.8 M Power Cord with 32 A Industrial Plug. Minimum 20 Power Cables (C13 , C19) per IPDU of same OEM with locking to connect the Device .
14	1.14 (PDU)	Country of Origin & Manufacture	USA/EU	Country of Origin : USA / EU & Manufacture : Mention by Bidder
		IPDU Cable	3 M Power Cord with 32 A Industrial Plug. 20 P Power Cables (C13 , C19) per PDU to connect the Device & to connect industrial socket (32 A) should be provided ;	1.8 M Power Cord with 32 A Industrial Plug. 20 Power Cables (C13 , C19) per PDU of same OEM with locking to connect the Device
		Protection	Surge Protector , Circuit Breaker ,Digital Amp & Volt Meter	Basic PDU
15	1.15 (STS)	Country of Origin & Manufacture	USA/EU	Country of Origin : USA / EU & Manufacture : Mention by Bidder
		Load Capacity	1 min 200%, 30 min 125 %	Not required .
16	1.16(Networking)	Scope of Work :	<ol style="list-style-type: none"> Structured cabling Inside 20 Rack Data Center. Structured cabling NOC Room. Structured cabling from DC to Communication Room. 	<ol style="list-style-type: none"> Structured cabling Inside 20 Rack Data Center. Structured cabling from DC to Communication Room. NOC Room is not required.
		1. UTP CAT6A Cable	Foil : PET tape , Screen : AL/PET tape	Foil : PET tape

S/L	Annexure / Page No	Item /Section	Existing info	Amended Info
		2. UTP CAT6A Patch Panel, 24 Port, with Modules	CAT.6A Patch Panel Frame for both Unshielded and shielded cable system.	CAT.6A Patch Panel Frame for Unshielded cable system. (Same Change will applicable in all required field in RFP)
		12. Fiber Cable Inside Data Center	6/12 core multimode mode fiber optic Cable Type: Stranded loose tube Jacket Color: Black Total Fiber Count: 6 nos.	12 core multimode mode fiber optic (Same Change will applicable in all required field in RFP) Cable Type: Tight buffered (Same Change will applicable in all required field in RFP) Jacket Color: Mention by bidder (Same Change will applicable in all required field in RFP) Total Fiber Count: As per requirement
		13.Fiber Cable from Communication room to Core network rack at DC	6/12 core multimode mode fiber optic cable from distribution room to Network Rack Total Fiber Count: 6 nos.	12 core Single & multimode mode fiber optic cable from distribution room to Network Rack. Total Fiber Count: 8 nos. (Single Mode : 4 & multimode : 4)
		13.Fiber Cable from Communication room to Core network rack at DC	Fiber patch panel : As per requirement	24 port Fiber patch panel : 12 (8 Multimode & 4 Single Mode) with fully loaded adapter.
		15. 5 meter Fiber patch cord	5 meter Fiber patch cord : 100 Pieces	5 meter multimode Fiber(SC-LC) patch cord : 90 Pieces & 10 Pieces 5 meter single mode Fiber(SC-SC) patch . Country of Origin & Manufacture : Mention by Bidder .
17	1.18 (Phase correction device)	Country of Origin & Manufacture	USA/EU/JAPAN	
18	1.19 (Monitoring PC & Display)	Display	24" Full HD (HP/Dell/ Equivalent)	56" Full HD (HP/Dell/ Equivalent)
19	1.20 (VESDA)	Country of Origin & Manufacture	USA/EU	USA/EU/AUS
20	Air Grommet	Not mention in RFP	Not mention in RFP	Brand: To be stated by the bidder. Model: To be stated by the bidder. Country of Origin: USA/EU Country of Manufacturer: Description: <input type="checkbox"/> Divided section. <input type="checkbox"/> Overlapping Brushes with double layer facilities. <input type="checkbox"/> Latch removable brush section. <input type="checkbox"/> Installation facilities at the panel edge or within the panel. <input type="checkbox"/> High Strength Flame Retardant ABS and quality Nylon 6 brush. <input type="checkbox"/> Shape: round or rectangle. RoHS compliance: Material is RoHS compliant per European. Directive 2002/95/EC on the Restriction of Hazardous Substances (RoHS). UL Listed . As per requirement .



Data Center Infrastructure Management (DCIM)

Descriptions	Required Specification	UoM	Qty
Brand name:	Mention by Bidder	Lot	1
Country of origin	USA/EU		
Country of Manufacture	Please Specify		
No of device support	At-least 100 node license to be Required		
	If the proposed system is an appliance based, the appliance should be provided.		
Integration	All devices in this category should be integrated with the proposed DCIM system.		
	It should also integrate with the UPS system, AVR ,PAC, iPDU, Temperature & Humidity Sensor , Water Leak Detection System , Vibration Sensor , Smoke & Heat Sensor etc		
Sensor			
Spot Fluid Sensor	Universal Sensor that provides early detection of fluid in your Data Center or Network Closet in a specified location.-25FT	Pcs	4
Temperature & Humidity Sensor	Universal sensor that monitors temperature and humidity in your Data Center or Network Closet.	Pcs	12
Vibration Sensor	Universal Sensor that detects vibration in racks that may indicate movement of IT assets.-12Feet	Pcs	6
Smoke Sensor & Heat Sensor	Universal sensor that monitors temperature and humidity in your Data Center or Network Closet.	Pcs	12
Door Switch Sensor for Rack	Enables a NetBotz appliance to detect the act of opening a door, which triggers surveillance recording.	Pcs	20
Room Sensor	Universal Sensor that monitors access to a room.	As required	
Other Senor	Please Specify.	As required	
Manageability Features			

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Data Center Infrastructure Management (DCIM)

Centralized management	Simplify management of the physical infrastructure using a centralized repository accessible from anywhere on the network through a powerful and easy-to-use console application.		
Real-time monitoring	Immediate visibility to entire physical infrastructure through centralized, real-time device monitoring and notification enabling quick assessment of events as they occur.		
Fault notification	Real-time event notification minimizes response times to critical physical infrastructure situations. Enables IT Administrators to reduce mean time to repair, improve efficiency, and maximize uptime.		
Multi-vendor device support	Extensive multi-vendor support for monitoring networked SNMP devices. Enable visibility of existing SNMP devices through threshold alert notifications, data trending and reporting.		
Unified console	Customizable Windows and Linux client application enables instant access to the Central application from anywhere on the network.		
NMS Integration	Integrate SNMP traps into an Enterprise Management System, allowing users to view alerts generated by devices managed by the proposed Central system.		
Free text search	Quickly locate devices and alerts through the free search field.		
Alarm filters	Customize the user interface to display devices in critical, warning or normal device statuses.		
Agility			
Auto-discovery	Reduces the time needed to install and deploy physical infrastructure devices by automatically detecting manageable devices on the network.		
Mass Configuration	Provides a comprehensive mass configuration capability, allowing users to create, save, and push configurations or specific device settings to all supported devices with a Network Management Card.		
Mass firmware update	Decrease set-up time and complexity of managed devices by simultaneously upgrading firmware for multiple supported devices.		



Data Center Infrastructure Management (DCIM)

Custom mapping	Custom backgrounds, unique user-assignable icons, and drag-and-drop device placement make it easy to identify problem devices at a glance, minimizing downtime, errors, and cost.		
Private networking	Reduce IP addresses needed on the public network to manage devices, by placing them on an isolated secure network.		
Advanced device grouping	Define user access and viewing capabilities to individual groups. Control access to devices by administrator-defined user accounts. Additional user access can be managed by using the built-in LDAP and Active Directory Support.		
Protection			
Customizable user access	Define user access and viewing capabilities to individual groups. Control access to devices by administrator-defined user accounts. Additional user access can be managed by using the built-in LDAP and Active Directory Support.		
Encrypted communications	128 Bit, SSL encrypted communications between client and server, as well as encrypted user IDs and passwords stored on the server to help protect your resources		
Remote monitoring support	Web-based service that serves as a second set of eyes into the health of a company's physical infrastructure. Experienced professionals work non-stop to provide 24-hour monitoring and to help diagnose problems before they become critical.		
Availability			
Graphical trending analysis	Access current and historic data for any device or group of devices. Plot and graph multiple data points in a logical correlation to visualize potential hazardous trends.		
Custom reporting	Create, save and schedule user-defined reports for ease of data collection, distribution and analysis.		
Centralized Alert Repository	Access historical alerts from several appliances through one central database. Sort alerts by type, date, appliance, and/or device group.		

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Data Center Infrastructure Management (DCIM)

Integrated data storage	The system should ships with internal storage for data and video collection. The capacity for the storage should be 1 TB usable. Additional storage should easily be made available using the built-in Network Attached Storage server support for long-term storage and archiving.		
Adaptability			
Extendable architecture	The proposed system should be capable to meet the changing business needs.		
Change Manager add-on application	Easily track and execute moves, adds and changes of equipment in the data center via the shared data center model.		
Capacity Manager add-on application	Planning and optimizing actual power, cooling and rack capacities via shared data center model, enabling efficient equipment provisioning and right-sizing of your data center.		
Surveillance add-on application	Enhance visibility of your critical assets with physical threat management to monitor and record all activity in secured areas. A centralized repository allows the user to review, search and tag surveillance events for future needs.		
Add-on module TCP output module	Integrates data and select events from devices managed by the system into an existing Building Management Systems through Ethernet transmission		
Hardware	Vendor will provide Server and OS for installing your provided software. For proper functioning the system if any other equipment required (switch, power module etc.) mentioned here and quote the quantity.		
Warranty	Three (03) years full warranty		
BOM	BOM to be attached with technical compliance of each item		