

TECHNICAL BID

Technical Compliance Form for the delivery, installation, commissioning & testing of SERVER & related equipment for ePIS Project at CRRH, Gelephu and ERRH, Mongar

Sl#	Item Description and minimum Specifications	Brand Name & Origin	Make & Model No.	Compiled/Not (Or Bidder's offered Specifications)	Remarks
Item No. 1 – SERVER (4 Nos.)					
	Parameters	Functionality			
	Server type	Performance 2U, 2-socket full-featured enterprise server, Purpose-built for growing scale-out solutions			
	Server CPU	2 x Intel Xeon Gold 6326 2.9G, 16C/32T, 11.2GT/s, 24M Cache, Turbo, HT (185W)			
	Server Memory	Include 4 x 32GB RDIMM, 3200MT/s, Dual Rank 16Gb BASE x8			
	Slots	Support up to 16 DDR4 DIMM slots, supports RDIMM 1 TB max, speeds up to 3200 MT/s			
	Raid Controller	Include an internal Hardware RAID controller with minimum of 8GB NV cache			
	Internal Storage	Include 6 x 960GB SSD vSAS Mixed Use 12Gbps 512e 2.5in Hot-Plug ,AG Drive SED, 3DWPDP, Up to 16 x 2.5-inch SAS/SATA (HDD/SSD) max 122.88 TB			
	Internal Boot Supported Drive	Boot Optimized Storage Subsystem (BOSS-S2), HW RAID 1 2 x M.2 SSDs 240 GB, Embedded NIC, Include 2 x 1 GbE LOM Embedded			
	Network Connectivity	Include 2 x 10GbE SFP+ Open Compute Project - OCP 3.0 (x8 PCIe lanes), Include 1 X 4 Port 1GbE BASE-T Adapter, PCIe Low Profile, Up to 6 x PCIe Gen4 slots (5 x16 and 1x4) with support for SNAP I/O modules			
	Transceiver	Include 2 x SFP+ SR Optic 10GbE 850nm			
	Cooling	Fresh Air cooling			

	Fans	Standard Fan x 5				
	PCIe	Up to 5 x PCIe Gen4 slots / 1 x PCIe Gen3 slots				
	Ports	1 x Remote Access Connection Direct (Micro-AB USB) port, 1 x USB 2.0, 1 x VGA"				
	Operating System Supports	Canonical Ubuntu Server LTS, Citrix Hypervisor, Microsoft Windows Server with Hyper-V, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, VMware ESXi"				
	Server Management and Platform Security	With dedicated Network Port to support the server infrastructure management included with below security and management features. , Support Agentless architecture, Support Ability to use for template / policy based bare-metal server deployment, Support for Operating system deployment, Support Automate backup of hardware settings and firmware image ,Support Server management module should have tight integration with VMware vCenter and Microsoft System Center, Support Alerts and notification for hardware issues and baseline configuration drifts, Support All events related to hardware and configurations should be logged and should be persistent, Support lockdown the system to prevent system configuration and firmware changes, Support BIOS recovery, Support BIOS and Chipset level security – Should include Silicon based hardware-root-of-trust for boot authentication, Support management/monitoring of the server such as wireless				
	Physical Security	Support lockable Metal front Bezel to provide physical security				
	Server Bezel	2U LCD Bezel with NFC capability that enabled communication between a mobile device and controller.				
	Power Supplies	Dual, Hot-plug, Redundant Power Supply (1+1) 1100W, Mixed Mode Titanium				

	Accessories	Include all required accessories for rack mounting and cabling management, cables etc.				
	Warranty and Maintenance	The Tender should provide 36 months Warranty for all equipment and software included in the proposed solution.				
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Item No. 2 – KWM (2 Nos.)						
	Parameters	Functionality				
	Product Description	Remote Console Switch (RCS) digital keyboard, video and mouse (KVM) over IP and serial console switches combine analog and digital technology to provide flexible, centralized control of data center servers, and to facilitate the operations, activation, and maintenance of remote branch offices where trained operators may be unavailable. The IP-based RCS gives you flexible target device management control and secure remote access from anywhere at any time through the RCS software or on-board web interface (OBWI).				
	Virtual Media	Virtual Media (VM) capabilities, configurable for analog (local) or digital (remote) connectivity				
	Common Access Card	Smart card/Common Access Card (CAC) capability				
	True Serial	True serial capability through Secure Shell (SSH) and Telnet				
	Display Resolution	Enhanced video resolution support, up to 1600 x 1200 or 1680 x 1050 (widescreen) native from target to remote				
	Power Supply	Optional dual power models for redundancy				
	Intelligent Power Device Management	Optional support for managing intelligent power devices				
	TCP/IP Support	Dual stack IPv4 (DHCP) and IPv6 (DHCPv6 and stateless auto configuration) for simultaneous access				

	Network Speed	Accessibility to target devices across 10/100/1000BaseT LAN ports.				
	Remote Network	a MODEM port that supports V.34, V.90 or V.92-compatible modems that may be used to access the switch when an Ethernet connection is not available				
	Server Interface POD	Reduce Wiring Clutter by combining Keyboard, Video and Mouse connection over a length of CAT-5/6 cable. Minimum eight (8) connections to Keyboard, Video and Mouse				
	Centralized Management	Include Rack Mounted Keyboard and 18.5" Display, 8-port analog, upgradeable to digital KVM switch with 1 local, user, 1 power supply				
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Item No. 3 – SERVER RACK (12 Nos.)						
	Parameter	Functionality				
	Product Description	36U Floor Standing Server Rack (650mmW x 1050mmD) CRCA Steel Frame with Aluminium Profiles & Side Panel-2 Nos with following items: a. Top cover with cable entry b. 1no. - Bottom cover with cable entry -1 no. c. 19" Mounting Angles – 2 pairs,				
	Finishing	Powder coated to 80 microns; Matted finished, black color, Front & Rear Perforated Door, Castor Wheel with Leveling Legs, 4 Fans 230VAC 90 CFM on top, 2 Nos. Horizontal Cable manager, 1U, 2 Nos. Vertical PDU with 21 Nos. of 10A/ C-13 Sockets.				
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Item No. 4 – UPS (3 Nos.)						
	Parameter	Functionality				
	UPS battery	12v-65ah, Battery should support 3 hours if there is				

		power breakdown				
	Nominal Voltage	12V				
	Type of Battery	EP 65-12				
	Rated Capacity at 20 hr	65V/Cell at 27 deg C				
	Rated Capacity at 10 hr	60V/Cell at 27 deg C				
	Overall Height	174mm(+/-2mm)				
	Height Up to Lid Top	174mm (+/-2mm)				
	Warranty	2 Years				
	Load Capacity	5000 VA				
Sl#	Item Description and minimum Specifications		Brand Name & Origin	Make & Model No.	Compiled/Not (Or Bidder's offered Specifications)	Remarks
Item No. 5 – Battery Bank- Min 3 Hours (1 No.)						
	Parameter	Functionality				
	UPS Battery	12v-65ah				
	Nominal Voltage	12V				
	Type of Battery	EP 65-12				
	Rated Capacity at 20 hr	65V/Cell at 27 deg C				
	Rated Capacity at 10 hr	60V/Cell at 27 deg C				
	Warranty	2 Years				
	Battery should support 3 hours if there is power breakdown					

Bidder's Signature with Seal/Stamp

Note: Delivery, installation, commissioning and testing should be done at CRRH, Gelephu and ERRH, Mongar within 45 days for the date of issuance confirmed work/supply order.