

PRECISION COOLING CRV-4 UNIT

SR. #	DESCRIPTION OF ITEMS	BRAND	QTY	UNIT
1	Vertiv CRAC Solution			
	Liebert® CRV Inrow precision cooling system 25kW Cooling with Reheat & Humidifier Air Cooled Condenser Unit for CRV, vertical Installation, 220V/1 PH/50 Hz (Outdoor Unit)	Vertiv	1	Nos
2	Electrical works			
	Replacing of existing MCB for CRAC	SCHENIDER/EQUI	1	No.
	Supply of 4Core CU/PVC/PVC cable from Existing Main DB to New CRAC	FAST CABLE	60	Mtr
	Supply of 1Core CU/PVC/PVC cable from Existing Main DB to New CRAC		60	Mtr
	Miscellaneous & Wiring Accessories : Items including all accessories required for completion of work. All conduits will be PVC pipe including all accessories like bends, sockets, junction boxes, tee, support etc. of same specification material. Including Lugs, boots, Connectors, Cable Tie, PVC tape etc.		1	Supply
3	Mechanical Works			
	Supply, laying and fitting of copper piping of appropriate size for connectivity of Two Precision Cooling indoor and outdoor Units with insulation where necessary, complete in all aspect.	Muller-USA	90	Supply
	Supply, laying and fitting of UPVC Pipe for Fresh Water and Drain Line			
	Flashing, Pressure testing, vacuum of refrigerant circuits and supply/ charging of refrigerant R410A.	PERFORMED BY		
	Supply, fabrication and installation of metallic base for Outer placement complete in all aspect.	PROFESSIONAL		
	Loading, unloading, uplifting and installation of indoor/outdoor units at designated place.	ENGINEERS		
	MS Powder Coated perforated cable tray (300 x 100) including bends, Tee, cross, joints etc. for Cooling (40 Rft otherwise APA)		40	rft

4	SERVICES, INSTALLATION & COMMISSIONING			
	Services, Installation, Commissioning of CRAC		1	JOB
	Transportation / Logistic of CRAC		1	JOB

PRECISION COOLING DME-12 UNIT

SR. #	DESCRIPTION OF ITEMS	BRAND	QTY	UNIT
1	Vertiv CRAC Solution			
	Liebert® DME Front flow precision cooling system 12kW Cooling with Reheat & Humidifier Air Cooled Condenser Unit for DME 12, vertical Installtion, 220V/1 PH/50 Hz (Outdoor Unit)	Vertiv	2	Nos
2	Electrical works			
	Replacing of existing MCB for CRAC	SCHENIDER/EQUI	1	No.
	Supply of 4Core CU/PVC/PVC cable from Existing Main DB to New CRAC	FAST CABLE	80	Mtr
	Supply of 1Core CU/PVC/PVC cable from Existing Main DB to New CRAC		80	Mtr
	Miscellaneous & Wiring Accessories : Items including all accessories required for completion of work. All conduits will be PVC pipe including all accessories like bends, sockets, junction boxes, tee, support etc. of same specification material. Including Lugs, boots, Connectors, Cable Tie, PVC tape etc.		1	Supply
3	Mechanical Works			
	Supply, laying and fitting of copper piping of appropriate size for connectivity of Two Precision Cooling indoor and outdoor Units with insulation where necessary, complete in all aspect.	Muller-USA	120	Supply
	Supply, laying and fitting of UPVC Pipe for Fresh Water and Drain Line			
	Flashing, Pressure testing, vacuum of refrigerant circuits and supply/ charging of refrigerant R410A.	PERFORMED BY PROFESSIONAL ENGINEERS		
	Supply, fabrication and installation of metallic base for Outer placement complete in all aspect.			
	Loading, unloading, uplifting and installation of indoor/outdoor units at designated place.			
	MS Powder Coated perforated cable tray (300 x 100) including bends, Tee, cross, joints etc. for Cooling (40 Rft otherwise APA)		60	rft
4	SERVICES, INSTALLATION & COMMISSIONING			
	Services, Installation, Commissioning of CRAC		1	JOB
	Transportation / Logistic of CRAC		1	JOB

UNINTERRUPTED POWER SUPPLY

SR. #	DESCRIPTION OF ITEMS	BRAND	QTY	UNIT
1	UPS 40KVA			
A	Easy UPS 3S 40 kVA 400V 3:3 UPS, 2 internal 7Ah modular battery strings	Schneider Electric Part No: E3SUPS40KHB2	1	Nos
2	Installation Material for UPS			
A	Breakers for UPS 63AMP with DB	Schneider Electric	2	Nos
B	Cable for UPS 35MM with lugs, duct etc * Cable will be charge as per actual	Fast cable	20	MTR

COMPUTING EQUIPMENT

PRODUCT NO.	DESCRIPTION OF ITEMS	QTY	SERVERS QUANTITY
DL380 Gen11 Server (2 x H100 GPU)			
P52534-B21	HPE ProLiant DL380 Gen11 8SFF NC Configure-to-order Server	1	
P52534-B21 UUF	HPE DL380 Gen11 8SFF NC CTO Svr	1	
P49603-B21	Intel Xeon-Platinum 8462Y+ 2.8GHz 32-core 300W Processor for HPE	2	
P49603-B21 OD1	Factory Integrated	2	
P43331-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	16	
P43331-B21 OD1	Factory Integrated	16	
P48810-B21	HPE DL380 G11 2SFF U.3 Prim/Sec Cage Kit	1	
P48810-B21 OD1	Factory Integrated	1	
P28352-B21	HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	8	
P28352-B21 OD1	Factory Integrated	8	
P48813-B21	HPE DL380 Gen11 2U 8SFF x1 TM Kit	1	
P48813-B21 OD1	Factory Integrated	1	
P49053-B21	HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	2	
P49053-B21 OD1	Factory Integrated	2	
P48802-B21	HPE DL380 G11 2U x8/x16/x8 Sec Riser Kit	1	
P48802-B21 OD1	Factory Integrated	1	
P48804-B21	HPE DL380 Gen11 2U 2x16 Tert Riser Kit	1	
P48804-B21 OD1	Factory Integrated	1	
P47777-B21	HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	1	
P47777-B21 OD1	Factory Integrated	1	
R9S41C	NVIDIA H100 80GB PCIe Accelerator	2	
R9S41C OD1	Factory Integrated	2	
	HPE IB FDR EN 40GB 2P 544 + QSFP Adpater	1	
P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1	
P01366-B21 OD1	Factory Integrated	1	
P48918-B21	HPE ProLiant DL360 Gen11 Storage Controller Enablement Cable Kit	1	
P48918-B21 OD1	Factory Integrated	1	
P51181-B21	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	1	

P51181-B21 OD1	Factory Integrated	1	
P38997-B21	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2	
P38997-B21 OD1	Factory Integrated	2	
BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1	
BD505A OD1	Factory Integrated	1	
P56072-B21	HPE DL380/DL560 Gen11 2U GPU Pwr Cbl Kit	1	
P56072-B21 OD1	Factory Integrated	1	
P48820-B21	HPE DL380/DL560 G11 2U High Perf Fan Kit	1	
P48820-B21 OD1	Factory Integrated	1	
P50400-B21	HPE Gen11 2U Bezel Kit	1	
P50400-B21 OD1	Factory Integrated	1	
P22020-B21	HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit	1	
P22020-B21 OD1	Factory Integrated	1	
P48183-B21	HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	1	
P48183-B21 OD1	Factory Integrated	1	
P48818-B21	HPE DL380/DL560 G11 High Perf 2U HS Kit	2	
P48818-B21 OD1	Factory Integrated	2	
P52152-B21	HPE ProLiant DL380 Gen11 NS204i-u Internal Cable Kit	1	
P52152-B21 OD1	Factory Integrated	1	
P52341-B21	HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit	1	
P52341-B21 OD1	Factory Integrated	1	
HU4B2A3	HPE 3Y Tech Care Basic Service	1	
HU4B2A300D K	HPE DL380 Gen11 Support	1	
PRODUCT NO.	DESCRIPTION OF ITEMS	QTY	SERVERS QUANTITY
DL380 Gen11 Server (2 x A100 GPU)			
P52534-B21	HPE ProLiant DL380 Gen11 8SFF NC Configure-to-order Server	1	
P52534-B21 UUF	HPE DL380 Gen11 8SFF NC CTO Svr	1	
P49603-B21	Intel Xeon-Platinum 8462Y+ 2.8GHz 32-core 300W Processor for HPE	2	
P49603-B21 OD1	Factory Integrated	2	

P43331-B21	HPE 64GB (1x64GB) Dual Rank x4 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit	16
P43331-B21 OD1	Factory Integrated	16
P48813-B21	HPE DL380 Gen11 2U 8SFF x1 TM Kit	2
P48813-B21 OD1	Factory Integrated	2
P28352-B21	HPE 2.4TB SAS 12G Mission Critical 10K SFF BC 3-year Warranty 512e Multi Vendor HDD	8
P28352-B21 OD1	Factory Integrated	8
P49053-B21	HPE 3.2TB SAS 24G Mixed Use SFF BC Multi Vendor SSD	2
P49053-B21 OD1	Factory Integrated	2
P48802-B21	HPE DL380 G11 2U x8/x16/x8 Sec Riser Kit	1
P48802-B21 OD1	Factory Integrated	1
P47777-B21	HPE MR416i-p Gen11 x16 Lanes 8GB Cache PCI SPDM Plug-in Storage Controller	1
P47777-B21 OD1	Factory Integrated	1
R9P49C	NVIDIA A100 80GB PCIe Non-CEC Accelerator for HPE	2
R9P49C OD1	Factory Integrated	2
	HPE IB FDR EN 40GB 2P 544 + QSFP Adpater	1
P48804-B21	HPE DL380 Gen11 2U 2x16 Tert Riser Kit	1
P48804-B21 OD1	Factory Integrated	1
P01366-B21	HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	1
P01366-B21 OD1	Factory Integrated	1
P48918-B21	HPE ProLiant DL360 Gen11 Storage Controller Enablement Cable Kit	1
P48918-B21 OD1	Factory Integrated	1
P51181-B21	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	1
P51181-B21 OD1	Factory Integrated	1
P38997-B21	HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	2
P38997-B21 OD1	Factory Integrated	2
BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	1
BD505A OD1	Factory Integrated	1
P39102-B21	HPE ProLiant DL300 Gen10 Plus GPU 8-pin Keyed Cable Kit	1
P39102-B21 OD1	Factory Integrated	1
P48820-B21	HPE DL380/DL560 G11 2U High Perf Fan Kit	1

P48820-B21 OD1	Factory Integrated	1
P50400-B21	HPE Gen11 2U Bezel Kit	1
P50400-B21 OD1	Factory Integrated	1
P22020-B21	HPE DL38X Gen10 Plus 2U Cable Management Arm for Rail Kit	1
P22020-B21 OD1	Factory Integrated	1
P48183-B21	HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	1
P48183-B21 OD1	Factory Integrated	1
P48818-B21	HPE DL380/DL560 G11 High Perf 2U HS Kit	2
P48818-B21 OD1	Factory Integrated	2
P52152-B21	HPE ProLiant DL380 Gen11 NS204i-u Internal Cable Kit	1
P52152-B21 OD1	Factory Integrated	1
P52341-B21	HPE ProLiant DL3XX Gen11 Easy Install Rail 3 Kit	1
P52341-B21 OD1	Factory Integrated	1
HU4B2A3	HPE 3Y Tech Care Basic Service	1
HU4B2A300D K	HPE DL380 Gen11 Support	1

COMPUTING EQUIPMENT

S. No	DESCRIPTION OF ITEMS	QUANTITY
HP Z8 G4 Workstation		
1	Intel® Xeon® Gold 6248R Processor (3.0 GHz, up to 4 GHz w/Boost, 35.75 MB cache, 2933 MHz, 24 core, 205W)	8
	Intel® Xeon® Gold 6248R 2nd Processor (3.0 GHz, up to 4 GHz w/Boost, 35.75 MB cache, 2933 MHz, 24 core, 205W)	
	256 GB (4x64 GB) DDR4-2933 ECC Registered Memory (2 processors)	
	HP Z8 G4 90 1125W Chassis 100V/15A	
	Operating System Load to M.2	
	512 GB M.2 SSD (3rd Party)	
	4 TB 7200 RPM SATA 3.5" HDD	
	NVIDIA® RTX™ A6000 (48 GB ECC GDDR6; 4 x DisplayPort 1.4, PCIe x16) Graphics with Blower Fan	
	HP i350-T2 PCIe Dual Port Gigabit NIC	
	Base - 4 x USB 3.0 Type A	
	9.5mm DVD-Writer 1st Optical Disc Drive	
USB Business Slim Wired Keyboard		

	HP Wired Optical USB Mouse	
	1 Year Warranty	
2	HP Z Display 24"	8