

NIT No: AEML/ MDB/2019-20/39

Supply, Installation & Commissioning of SCADA & ADMS System at Adani Electricity, Mumbai Ltd

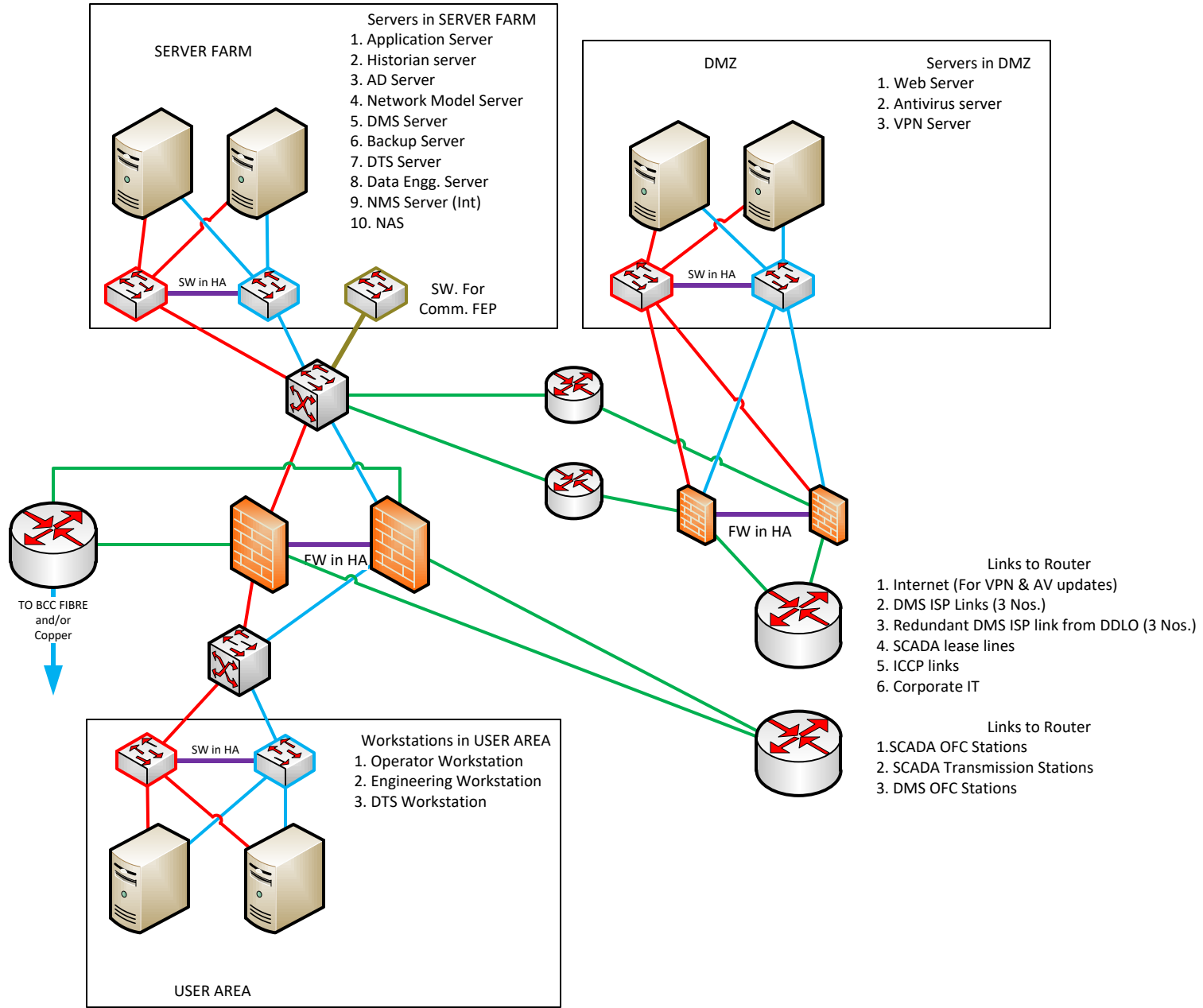
Sever Details and Minimum Hardware Requirements

Sr No	Sever Name	Make	Hardware	Quantity	
				MCC	BCC
1	AD Server (Authentication)	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NIC Cards (1Gbps) (1Gbps): 2	2	1
2	Application Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:10/CPU RAM:64 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	2	1
3	Historian Server (Historical data Archive)	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:10/CPU RAM:64 GB HARD DISK:2x600 GB (For OS) Storage for database shall be on NAS NIC Cards (1Gbps): 2	2	1
4	Data Engineering Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	1	1
5	Front End processor (Data acquisition from RTU /FRTU)	HP / DEL / IBM	PROCESSOR:SINGLE (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:600 GB NIC Cards (1Gbps): 5	7	7
6	DMS Sever & DTS Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:10/CPU RAM:64 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	3	1
7	Network Model Sever	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:10/CPU RAM:64 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	2	1
8	NMS Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NUMBER OF EXPANSION SLOTS:2 NIC Cards (1Gbps): 2	1	0
9	Web Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	1	1
10	ABT Server	HP / DEL / IBM	PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NIC Cards (1Gbps): 2	0	0
11	Engineering /DTS Work Station	HP / DEL / IBM	PROCESSOR:SINGLE (Min 2.0 Ghz) CORE:8/CPU RAM:8 GB HARD DISK:600 GB NIC Cards (1Gbps): 2 Audio: In-Built speaker to provide audible alarms to users. Audio volume of speakers shall be loud enough for hearing the alarm Graphics Card : RAM: 2048MB Support for 4 Nos. of Monitors Full HD resolution for each monitor Monitor: Monitor Stand: Free standing for SINGLE (Min 2.0 Ghz) Monitor Size: 22" LED backlit, Full HD, Anti Glare, Input Connectors : VGA, Display Port, HDMI Duty Cycle : Suitable for 365X24X7 operations. Display Accessories: Power Cable & Display Cables for all monitors compatible with graphics card display port.	7	2

12	Operator Work Station	HP/DELL/ IBM	<p>PROCESSOR:SINGLE (Min 2.0 Ghz) CORE:8/CPU RAM:8 GB HARD DISK:600 GB NIC Cards (1Gbps): 2 Audio: In-Built speaker to provide audible alarms to users. Audio volume of speakers shall be loud enough for hearing the alarm Graphics Card : RAM: 2048MB Support for 4 Nos. of Monitors Full HD resolution for each monitor Monitor: Monitor Stand: Free standing, 2x2 matrix arrangement Size: 22" LED backlit, Full HD, Anti Glare, Input Connectors : VGA, Display Port, HDMI Duty Cycle : Suitable for 365X24X7 operations. Display Accessories: Power Cable & Display Cables for all 4 monitors compatible with graphics card display port.</p>	8	0
13	Operator Work Station	HP/DELL/ IBM	<p>PROCESSOR:SINGLE (Min 2.0 Ghz) CORE:8/CPU RAM:8 GB HARD DISK:600 GB NIC Cards (1Gbps): 2 Audio: In-Built speaker to provide audible alarms to users. Audio volume of speakers shall be loud enough for hearing the alarm Graphics Card : RAM: 2048MB Support for 4 Nos. of Monitors Full HD resolution for each monitor Monitor: Monitor Stand: Free standing, 1x2 matrix arrangement Size: 22" LED backlit, Full HD, Anti Glare, Input Connectors : VGA, Display Port, HDMI Duty Cycle : Suitable for 365X24X7 operations. Display Accessories: Power Cable & Display Cables for all monitors compatible with graphics card display port.</p>	0	8
14	Switch L2 Manageable	HP / CISCO / DELL	48 Port (10/100/1000)	4	4
15	Switch L2 Manageable	HP / CISCO / DELL	24 Port (10/100/1000)	3	3
16	Switch L3 Manageable	HP / CISCO / DELL	24 Port (10/100/1000)	2	2
17	Router	HP / CISCO	16 Port (10/100/1000)	5	4
18	Firewall	CISCO / FORTIGATE	8 Port (10/100/1000)	4	2
19	Backup server	NA		0	0
20	Anti virus Server	HP / DEL / IBM	<p>PROCESSOR:DUAL (Min 2.0 Ghz) CORE:8/CPU RAM:16 GB HARD DISK:2x600 GB NUMBER OF EXPANSION SLOTS:2 NIC Cards (1Gbps): 2</p>	1	0
21	NAS device	HP / DEL / IBM	Minimum Storage Capacity - 8TB After RAID configuration	1	1

* Note : All servers shall have dual redundant power supply
All servers shall be configured with RAID1/RAID5

Setup At MCC



Setup At BCC

