

A-MAIN CONTROL CENTER HARDWARE FOR SCADA/DMS/OMS - GURGAON						
A1	Server/Workstation Hardware	Unit	Qty	Unit Price	Total Price	Backup Control Center
1.00	SCADA,ADMS,OMS,EMS Server	Nos.	2.00	1,050,000	2,100,000.00	2,100,000.00
2.00	DMS Simulation Server	Nos.	1.00	500,000	500,000.00	500,000.00
3.00	DMS Realtime Historian Server	Nos.	2.00	500,000	1,000,000.00	1,000,000.00
4.00	FEP,Communication,ICCP Integration Server	Nos.	2.00	750,000	1,500,000.00	1,500,000.00
5.00	ISR Server {Data Server}	Nos.	2.00	500,000	1,000,000.00	1,000,000.00
6.00	NMS Server	Nos.	2.00	500,000	1,000,000.00	1,000,000.00
7.00	Developmental Server	Nos.	3.00	500,000	1,500,000.00	1,500,000.00
8.00	Web/Directory Server	Nos.	2.00	500,000	1,000,000.00	1,000,000.00
9.00	Asset Management Server	Nos.	2.00	500,000	1,000,000.00	1,000,000.00
10.00	Visual Monitoring Server	Nos.	4.00	500,000	2,000,000.00	2,000,000.00
11.00	Weather Forecast System	Nos.	1.00	500,000	500,000.00	500,000.00
12.00	LV Automation.Monitoring (Non Technical Losses) Server	Nos.	4.00	500,000	2,000,000.00	2,000,000.00
13.00	Workstation with dual TFT Monitors	Nos.	4.00	500,000	2,000,000.00	2,000,000.00
14.00	Remote VDUs with one TFT Monitor	Nos.	8.00	100,000	800,000.00	800,000.00
15.00	Developmental console with one TFT (Engg. Stations)	Nos.	2.00	100,000	200,000.00	200,000.00
16.00	DTS/Workstation Console with dual TFTs	No.	2.00	100,000	200,000.00	200,000.00
17.00	LED based Video Projection system with 2X3 Module configuration with each module at least 67" diagonal with common projector	Set	1.00	5,500,000	5,500,000.00	5,500,000.00
Total					23,800,000.00	23,800,000.00
A2	Storage & Backup Devices	Unit	Qty	Unit Price	Total Price	
25.00	STORAGE ACCESS NETWORK-5TB	Nos.	6.00	1,200,000	7,200,000.00	7,200,000.00
Total					7,200,000.00	7,200,000.00
A3	Switches	Unit	Qty	Unit Price	Total Price	
26.00	Layer II Switch (SCADA/DMS LAN) (48 Ports)	Nos.	2.00	100,000	200,000.00	200,000.00
27.00	Layer Switch (Planning & Development system LAN) (24 Ports)	Nos.	4.00	65,000	260,000.00	260,000.00
28.00	Router (1+1) (2 Nos.) - DMZ	Nos.	2.00	175,000	350,000.00	350,000.00
29.00	Firewall & Network IDS/IPS in pair (2 Nos.)	Nos.	2.00	350,000	600,000.00	600,000.00
Total					1,410,000.00	1,410,000.00
A4	Other Active Devices	Unit	Qty	Unit Price	Total Price	
30.00	GPS Time synchronization system	Set	2.00	350,000	700,000.00	700,000.00
31.00	Time, day & date digital displays	Set	1.00	50,000	50,000.00	50,000.00
Total					750,000.00	750,000.00
A5	Printers	Unit	Qty	Unit Price	Total Price	

32.00	A3 Color Inkjet Printer	Set	1.00	60,000	60,000.00	60,000.00
33.00	B/W Laser printer	Set	1.00	25,000.00	25,000.00	25,000.00
34.00	Color Laser printer A4	Set	1.00	50,000.00	50,000.00	50,000.00
Total					135,000.00	135,000.00
A6	Routers	Unit	Qty	Unit Price	Total Price	
35.00	(1+1) Routers (2 Nos.) One set each for interfacing SCADA/DR, IT system, IT DR System and CCS	Nos.	2.00	150,000	300,000.00	300,000.00
Total					300,000.00	300,000.00
A7	Cabling System	Unit	Qty	Unit Price	Total Price	
36.00	Cable, Jacks, Hubs, etc.	Lot	1.00	450,000.00	450,000.00	450,000.00
37.00	KVM Switch	Nos.	6.00	250,000	1,500,000.00	1,500,000.00
38.00	Server/Networking Racks	Nos.	6.00	150,000	900,000.00	900,000.00
Total					2,850,000.00	2,850,000.00
A8	Others	Unit	Qty	Unit Price	Total Price	
39.00	Hardware for BMS	Lot	1.00	2,000,000	2,000,000.00	2,000,000.00
40.00	Sensors	Nos.	1000.00	30,000	30,000,000.00	
41.00	Cameras for VMS	Lot	50.00	150,000	7,500,000.00	
Total					39,500,000	2,000,000.00
Sub- Total (Hardware) A1-A8					83,145,000	45,645,000.00
B-MAIN CONTROL CENTER SOFTWARE FOR SCADA/DMS/OMS - GURGAON						
B1	Software for Control Centre	Unit	Qty	Unit Price	Total Price	
42.00	SCADA software	Lot	1.00			
43.00	ISR Software	Lot	1.00			
44.00	DMS software	Lot	1.00			
45.00	OMS Software (HV, MV & LV System)	Lot	1.00			
46.00	DTS software	Lot	1.00			
47.00	Developmental software	Lot	1.00			
48.00	Network Management Software	Lot	1.00			
49.00	WEB/Network security software (Included in IT Package)	Lot	1.00			
50.00	RDBMS package (Included in ISR)	Lot	0.00			
51.00	GIS Adaptor/Engine for importing data from GIS system under IT system	Lot	1.00			
52.00	Field Client / Web Client Licences for ADMS System	Lot	15.00			
53.00	Inbuilt Web Call Centre for Vip Consumers (Upto 1 Lakh)	Lot	1.00			
3.00	Sub-Total (SW) -B1				308,000,000.00	184,800,000

B1	Software for Sub Systems in Control Centre	Unit	Qty	Unit Price	Total Price	
54.00	Asset Management	Lot	1.00		80,000,000	48,000,000
55.00	AVTL (Automatic Vehicle Tracking System)	Lot	1.00		7,500,000	4,500,000
56.00	Renewable Integration & Weather Forecasting	Lot	1.00		30,000,000	18,000,000
57.00	Building Management system + Access Control + Fire Management System	Lot	1.00		7,000,000	7,000,000
58.00	UPS of Control Centre (20 kVA Redundant UPS)	Lot	1.00		5,000,000	3,000,000
59.00	Visual Monitoring Software	Lot	1.00		10,000,000	6,000,000
	Sub-Total				139,500,000.00	86,500,000
Integration Cost						
B3	Integration Cost	Unit	Qty	Unit Price	Total Price	
60.00	Integration with SLDC Panipat (ICCP Integration)	Lot	1.00	12,500,000	12,500,000	-
61.00	Integration with DMS Faridabad (ICCP Integration)	Lot	1.00	12,500,000	12,500,000	0
62.00	Integration with Other IT Systems on Enterprise Bus (Metering, Billing, Collection)	Lot	1.00	30,000,000	30,000,000	0
	Sub-Total				55,000,000	-
63.00	Civil Work of Control Centre	Lot	2.00	50,000,000	50,000,000	45,000,000
64.00	ADSS Cable between Substations and Control Centers including associated jointed kits, hardware fittings and accessories	KM	30.00	65,000	1,950,000	
65.00	SDH Equipment and associated hardware	Lot			2,000,000	
66.00	FODB (fiber splicing), Indoor type, rack/wall mounted including pigtails, associated patch cords	Nos.			1,000,000	
67.00	RTUs and associated equipment at each Substation	Nos.	10.00	300,000	3,000,000	
					7,950,000	
					643,595,000.00	361,945,000.00
Total CCC Cost (Including Main & Backup)					1,005,540,000.00	

Note:

- 1 Prices are excluding Taxes & Duties