## MINISTRY OF HEALTH & FAMILY WELFARE, GOVERNMENT OF INDIA

## **Tender**

## For

Establishment of Local Area Network (LAN) and Queue/Token Management System for Temporary OPD at AIIMS, Raibareli (UP)

## Volume-IV Bill of Quantities

February 2014



HSCC (INDIA) LTD (CONSULTANTS & ENGINEERS FOR MEGA HOSPITALS & LABORATORIES) E-6(A), sector-1, NOIDA(U.P) 201301 (India)

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Tender No. HSCC/IT/Temp-OPD/Raibareli/2014

Bill of Quantity (BOQ) for establishment of Local Area Network (LAN) and Queue/Token Management System (QMS) for temporary OPD at AIIMS, Raebareli

Work to be executed as per Scope of work, Technical Specification, tender's terms and conditions etc. for establishment of LAN and QMS

			Total			
Sr. no.	Item Description	Unit	Quantity	Rate in Rs. in figure	Rate in Rs. in words	Amount in Rs.
1	2	3	4	5	6	7
Active	Devices					
1.0	Access Switch (Make - HP/Cisco/Juniper/Brocade)					
	Supply, installation, testing and commissioning of <b>48 Port Access Switch with 2 Slots</b> as per the technical specification mentioned as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No	1			
	Supply, installation, testing and commissioning of <b>24 Port Access Switch with 2 Slots</b> as per the technical specification mentioned as per the requirement & complete in all respect and as directed to the satisfaction of engineer.	No	1			
	Wireless Solution (HP/Cisco/Juniper/Brocade/Ruckus)					
	Supply, installation, testing and commissioning of Wireless Access Point with Power over Ethernet Adapter (10/100/1000 Mbps), Wall mounting device, Universal horizontal ceiling etc. and one years subscription as per the technical specification and as per requirement & complete in all respect and as directed to the satisfaction of engineer	No	2			
Passive	Devices					
3.0	UTP Components (Make - Molex/Systimax/R&M/AN	IP/Pandu	it)			
	Supply, laying, testing and commissioning of Cat 6A, PowerCat Plus, UTP Cable, 4 pair, 500 mtrs, Blue (23 AWG, Reel in a Box packing) as per the requirement and as directed to the satisfaction of engineer	No	8			

	Supply, installation, testing and commissioning of Cat 6A				
	Patch cords -4 feet as per the requirement and as				
3.2	directed to the satisfaction of engineer	No	50		
	Supply, installation, testing and commissioning of Cat 6A				
	Patch cords -7 feet as per the requirement and as				
3.3	directed to the satisfaction of engineer	No	50		
		-			
	Supply, installation, testing and commissioning of Cat 6A				
	UTP I/O with strain relief and Bend limiting Boot as per				
	the requirement and as directed to the satisfaction of		400		
3.4	engineer	No	100		
	Supply, installation, testing and commissioning of <b>2- port</b>				
	shuttered Face plate with surface mount Box as per the				
	requirement and as directed to the satisfaction of				
3.5	engineer	No	50		
4.0	Equipment Racks and other accessories				
	Supply, installation, testing and Commissioning of <b>Wall</b>				
	Mounting Rack (Size 12U) with Front Glass Door with				
	Lock Rack Accessories: Fans, 19" Stationary Shelf (1				
	No.), 5 Point AC Distribution Box 5/15 Amps(1 Nos.),				
	Mounting Hardware - Pack of 10(2 nos.) etc. as per the				
	requirement and as directed to the satisfaction of				
4.1	engineer	No	2		
	Supply, installation, testing and Commissioning of <b>24</b>				
	Ports unloaded Patch Panel with all standard				
	accessories that include Cable Manager, Power Bar with				
	sockets etc. as per the requirement and as directed to				
4.2	the satisfaction of engineer	No	3		
	Supply, laying, testing and commissioning of PVC				
	Batten/Pipes as per actual 1" as per the requirment and				
4.3	as directed to the satisfaction of engineer	Meter	1500		
	Supply, installation, testing and commissioning of latest				
	Server Hardware as per the technical specification				
	mentioned (Make - HP/Dell/IBM) as per the requirement				
1	& complete in all respect and as directed to the satisfaction of engineer		1		
4.4	satisfaction of engineer	No	1		

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4.5	Supply, installation, testing and commissioning of latest Server Operating System - Microsoft Windows 2012 Server or higher with media etc. as standard for the above Server as per the requirement & complete in all respect and as directed to the satisfaction of engineer  UPS SYSTEM (make-APC/Emerson/Merlinzerin/Eaton Powerware)	No	1			
	UPS of 20 KVA					
•	Supply of 20 KVA True Online double conversion and fully Microprocessor Controlled UPS system with IGBT based Rectifier with input pf 0.98 and minimum 95 % overall efficiency and THDI less than 5% on non linear loads including accessories and suitable Power Management software in UPS including IGBT/PWM technology based inverter, automatic bi - directional static switch, manual bypass switch, galvanic isolation transformer with UPS by pass has to be terminated before the isolation transformer in the UPS out-put path, input phase reversal protection, provsion for separate input for rectifier and for bypass. UPS should be with three phase input & three phase out put complete as required.					
ii	Rack mounted external battery bank of 12 volt SMF batteries for a total of 30 mins backup for ups on full resistive load.					
	Installation & commisioning of above mentioned UPS with battery and accessories.					
	Supply, installation, testing and commissioning of 20 KVA UPS as mentioned above.					
<b> </b>	UPS Panel					

	Supply, installation, testing and commissioning of following M.V. cubicle type totally enclosed, wall mounted type, powder coated, dust, damp and vermin proof, indoor type Distribution Board/Panel complete with busbars, M.V. danger notice plate, interconnections with suitable capacity aluminium leads/solid aluminium strips/rods, connection of incoming and outgoing cables with thimbles, and having following incoming and outgoing switchgears complete as per techinical specification and as required.
a)	INCOMER:
	100 Amps,415 volts, FP 35 KA Moulded Case Circuit Breaker with thermal magnetic release having variable current settings .
	R,Y&B phase indicating lamp (LED type) with 6A control SP MCB.
	ON,OFF TRIP indication for MCCB with 6A control SP MCB.
	1 No. 0 to 500 V Digital voltmeter with selector switch.
	Digital ammeter with selector switch with one set ofsuitable C.Ts.
b)	BUSBARS:
	100 Amp TPN Aluminium busbars
c)	OUTGOING:
i)	2 no.63 Amps , 415 volts, 9 KA ,Four Pole, Miniature Circuit Breaker, with ON/ OFF indication.
ii)	4 no. 32 Amps , 240 volts, 9 KA ,Double Pole, Miniature Circuit Breaker, with ON/ OFF indication.
iii)	4 no. 40 Amps , 240 volts, 9 KA ,Double Pole, Miniature Circuit Breaker, with ON/ OFF indication.
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	Agency also to be made all the nessesary				
	arrangements(Cabling and other assosories) forthe				
	following:				
	(a) Providing UPS supply to all the computers,				
	printers, network switches, servers and other IT				
	equipments etc. & complete in all respect.				
	(b) Nessesary arrangement for proper earthing of				
	UPS.				
	UPS with Panel as mentioned above				
		Set	1		
		Set	l	+	
6.0	Queue Management System (QMS)				
	Completion testing and considering a				
	Supply, installation, testing and commissioning of <b>Queue</b>				
	Management System Kiosk - Wall Mount/Table Mount				
	with Touch Screen as per the technical specification				
	with all necessary accessories etc., complete in all				
	respect and as per the requirement and as directed to				
6.1	the satisfaction of the engineer	No	2		
	Supply, installation, hanging, testing and commissioning				
	of Counter Display With Hannging with all the				
	accessories etc., as per the technical specification,				
	complete in all respect and as per the requirement and				
6.2	as directed to the satisfaction of the engineer	No	6		
	-				
	Supply installation banging testing and commissioning				
	Supply, installation, hanging, testing and commissioning				
	of <b>40" LCD TV</b> for display (Make -				
	Sony/Samsung/Panasonic/Toshiba) for OPD with all the				
	accessories etc., complete in all respect and as per the				
	requirement and as directed to the satisfaction of the				
6.3	engineer	No	4		
		<u>-</u>			
	Supply, installation, testing and commissioning of				
	Counter Opreator Software with all the accessories etc.,				
	complete in all respect and as per the requirement and				
6.4	as directed to the satisfaction of the engineer	No	6		
5.7		.10			
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	Supply, installation, testing and commissioning of set of				
I	equipment (VGA Adopter, Distributor One Input+2				
	Output) for connectivity between LCD/LED TV, QMS				
	Kiosk and Display Unit etc. complete in all respect and as				
	per the requirement and satisfaction of the engineer	6-4			
6.5	per the requirement and satisfaction of the engineer	Set	1		

6.6	Supply, laying, testing and commissioning of <b>VGA Cable</b> (standard make) and other cable with all accessories etc. complete in all respect and as per the requirement and satisfaction of the engineer	Meter	200		
0.0	Substaction of the engineer	Merei	200		
6.7	Supply, laying, testing and commissioning of PVC Conduit/Batten (standard make) as per the requirement and complete in all respect and as per the requirement and satisfaction of the engineer	Meter	300		
6.8	Supply, installation, testing and commissioning of Token Announcement system with Amplifier, speakers(minimum 4 speakers or more) (standard make) & all the accessories etc. complete in all respect as per the requirement and satisfaction of the engineer	Set	1		
6.9	Supply, installation of <b>Paper Roll</b> (Stationary) for Token Dispenser Unit in Roll for initial use (3-4 months) as per requirement and as directed to the satisfaction of the engineer	No	500		
	Queue Mangement System for Consultant's Room				
6.10	Supply, installation, hanging, testing and commissioning of <b>Display Unit</b> for outside Consultant's room with all the accessories, cabling etc., as per the technical specification, complete in all respect and as per the requirement and as directed to the satisfaction of the engineer	No	15		
6.44	Supply, installation, testing and commissioning of <b>Calling Pad /Device Unit</b> for individual <b>Consultant's room</b> with all the accessories, cabling etc., as per the technical specification, complete in all respect and as per the requirement and as directed to the satisfaction of the engineer	M-	45		
0.17	Cirginica i	No	15		
	Application Software for Patient Registration				

7.0	Supply, Customization, Installation, Testing, Training and Maintenance of Application Software for Patient Registration including all the associated software and Database licenses etc. for the completeness of the system and as per the technical requirement and as per the requirement of the OPD & complete in all respect and as directed to the satisfaction of engineer	No	Lumpsum		
	Total Amount				