

SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS FOR PROPOSED AMRIT PHARMACY AT AIIMS PATNA.								
BILL OF QUANTITIES								
SL.NO	DSR No.	DESCRIPTION OF ITEM	UNIT	QTY.	AS PER DSR - 2014		AS PER MARKET RATE	
					RATE (RS.)	AMOUNT (RS.)	RATE (RS.)	AMOUNT (RS.)
<b>SUB-HEAD - I : INTERNAL WIRING</b>								
1	1.14	Wiring for circuit/ submain wiring alongwith earth wire with the following size of FRLS PVC Insulated copper conductor, single core cable in surface/ recess medium class PVC conduit as required.						
i)	1.14.2	2x 2.5 sqmm+ 1x 2.5 sqmm earth wire	Meter	50	131	6550		
ii)	1.14.4	2x 6 sqmm+ 1x 6 sqmm earth wire	Meter	80	221	17680		
iii)	1.14.9	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Meter	20	389	7780		
2	1.12	Wiring for light/power plug points with 2 x 4 sq.mm. FRLS PVC insulated, Cu. Conductor, single core cable in surface/ recessed medium class PVC conduit along with 1 No. 4 sq.mm. FRLS PVC insulated copper conductor single core cable for loop earthing as required.	Metre	60	162.00	9720		
3	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5	23.00	115		
4	1.31	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 Amp modular socket outlet and 5/6 A modular type switch, connections painting etc. as reqd, for Light plug point.	Each	12	303.00	3636		
5	1.32	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess including providing and fixing 6 pin 5/6 & 15/16 Amp modular socket outlet and 15/16 A modular type switch, connections painting etc. as required.	Each	8	395.00	3160		
6	2.18	Supplying and fixing 20A 240Volts SPN industrial type socket outlet with 2 pole and earthed in metal enclosed plug top along with 20A C curve SP, MCB, in sheet steel enclosure on surface or in recessed with chanded metal cover for the socket outlet and complete with connection testing and commissioning as required.	Each	2	954	1908		
7	1.21	Supplying and fixing of following sizes of PVC conduit along with the accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required as per specification.						
i)		20mm dia PVC conduit	Metre	25	53.00	1325		
ii)		25mm dia PVC conduit	Metre	70	65.00	4550		
iii)		32mm dia PVC conduit	Metre	10	85.00	850		
8	NSR	Supplying and fixing of carbon dioxide fire extinguisher type 4 kgs. Capacity of approved make with wall mounting bracket as required conforming to IS: 2878/1976 (Push type).	Each	2			4500	9000
<b>TOTAL RS.</b>						<b>57274.00</b>		<b>9000.00</b>
<b>SUBHEAD- II: DISTRIBUTION BOARD &amp; MCB</b>								
1	2.7	Supplying and fixing following way,prewired SP&N,MCB distribution board of sheet steel 240 volts on on surface/ recess, complete with loose wire box ,terminal connectors for all incoming and outgoing circuits ,duly prewired with suitable size FRLS PVC insulated copper conductor up to terminal blocks, tinned copper busbars, neutral link, earth bar, dinbar, detachable gland plate , interconnections powder painted including p earthing etc. as required.(But without MCB/RCCB/Isolator)						
	2.7.4	2 + 4 way/6 way, double door	Each	1	2508	2508		
2	2.10	Supplying & fixing 5 amps to 32 amps rating 240/415 volts C curve Miniature Circuit Breaker suitable for inductive loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
	2.10.1	Single Pole	Each	4	169	676		
3	2.12	Supplying and Fixing of following rating double pole 240 Volts isolator in the existing MCB DB complete with connections ,testing and commissioning etc as required.						
	2.12.1	40 amps	Each	1	218	218		
<b>TOTAL RS.</b>						<b>3402.00</b>		
<b>SUB HEAD-III : T.V. , TELEPHONE SYSTEM &amp; LAN SYSTEM</b>								
1		Supplying, drawing, connecting and testing of 0.5 mm dia annealed copper conductor PVC insulated PVC sheathed telephone wire in existing conduit/wire way duct etc. as required of following sizes:						
1.1	1.18.2	2 Pair	Metre	100	18.00	1800		
2		Providing, laying, connecting and testing of multi-core telephone armoured cable of conductor size 0.63mm dia annealed copper conductor PVC insulated PVC sheathed jelly filled (as per DOT specification) cable along wall or ceiling or through existing pipe.						
2.1		5 Pair telephone cable	Metre	65			97.00	6305.00
3		Providing, fixing connecting and testing of under noted size of solderless telephone tag block Krone make in surface/recess in wall required size of M.S. box with hinged lockable cover duly stove enamel painted.						
3.1		5 pair tag block	Each	1			1279.00	1279.00
4	1.24.6	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required. Make: Panduit, Systimax, Belden	Each	5	95.00	475		
5		Supplying and fixing M.S. box with modular type data/ computer (RJ-45) outlet complete as required. Make: Panduit, Systimax, Belden	Each	5			355.00	1775.00
6		Providing, laying, connecting and testing of data/ computer Cat-6 cable along wall or ceiling or through existing pipe, including penta scanning documentation etc as required. Make: Panduit, Systimax, Belden	Metre	100			50.79	5079.00
7		Supply, installation, testing and commissioning of cat-6 patch cord 3 metre complete as per specifications as required.	Nos.	10			444	4440.00
8		Supply, installation, testing and commissioning of cat-6 patch cord 1 metre complete as per specifications as required.	Nos.	5			357	1785.00

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9		Supply, installation, testing and commissioning of SC-SC patch cord complete as per specifications as required.	Nos.	5			581	2905.00
10		Supply installation testing and commissioning of 24-port managed layered 2 switch with SFP uplink as per specifications complete as required.	Nos.	1			15000	15000.00
11		Supply installation testing and commissioning of fully closed 6U rack cabinet with dual source power supply, all accessories as per specifications complete as required.	Nos.	1			8500	8500.00
<b>TOTAL RS.</b>							<b>2275.00</b>	<b>47068.00</b>
<b>SUB-HEAD -IV : CCTV SYSTEM</b>								
1		Supply, installation, testing and commissioning of CCD coloured cameras, 1/3 inch 480 lines, HIGH RESOLUTION, 0.5 lux with 3/4 mm fixed lens with IR Leds for Day and night vision or equivalent complete as required in mini dome shape fixed type, including all wiring from the control module in existing PVC conduits complete as required. Make: honeywell, bosch, samsung	Set	4			9407.00	37628.00
2		Supply, installation, testing and commissioning of 8 – channel colour Digital Video Mgmt system with 8 cameras inputs Built in multiplexer, Digital Video recorder, Video motion Detection system, along with 15" monitor, with external alarm inputs & outputs TCP/IP network feature for remote monitoring & 500GB HDD Make: honeywell, bosch, samsung	Each	1			32377.00	32377.00
3		Supply, installation, testing and commissioning of power supply unit with SMF batteries complete as required. (One no. for set of 5 cameras).	Each	1			4356.00	4356.00
<b>TOTAL RS.</b>							<b>0</b>	<b>74361.00</b>
<b>SUB-HEAD -V : UPS SYSTEM</b>								
1		Supply, Installation, testing & commissioning of 1x 3 KVA UPS system configuration with 1Phase Input and 1 Phase Output True On Line Double Conversion UPS including Battery Circuit Breaker for Each Module CRCA housing with all required fixing accessories and hardware, Inbuilt Static switch bypass and inverter in each UPS module, In-Built Manual Maintenance by-pass, Sealed Maintenance free batteries for 2 hour back up, Battery Racks MS Powder Coated etc complete as required. Make: Eaton, APC, Emerson	Set	1			92755.00	92755.00
<b>TOTAL RS.</b>							<b>0.00</b>	<b>92755.00</b>
<b>SUB-HEAD -VI : AC UNITS -Hi Wall Split Unit</b>								
1		Supplying, installation, testing and commissioning of 4 star rated Air Cooled Split type Wall Mounted Air-conditioners with evaporating unit comprising of cooling coil, blower and motor and condensing unit comprising of hermetically sealed rotary compressor, Condenser coil, propeller fan. Unit shall be complete with controls, interconnecting copper refrigerant piping with insulation, electrical cabling, earthing etc. between evaporative and condensing unit complete with refrigerant gas and oil and MS Stand duly painted for outdoor units. The units shall be suitable for operating on 220 + 6% volt 1 phase 50 cycle AC Supply. The units shall be suitable for cordless remote operation. The refrigerant used shall be ozone friendly HFC. It should also have stabilizer unit of sufficient capacity. It should be complete as per technical specifications & as per directions of Engineer -in-charge. <b>Make: Voltas, Bluestar, Daikin</b>						
1.1		1.5 Tr capacity	Set	2			48209	96418
2		Supply, installation, testing and commissioning of copper refrigerant piping duly insulated( Two Length included ) with Nitrile between the above indoor & outdoor units. with necessary supports etc. It should be completed as per specifications & directions of engineer in charge.	RMT	40			700	28000
3		Supply, installation, testing & commissioning PVC drain piping with fittings, & duly insulated with 6 mm thick Nitrile insulation. 25 mm dia.	RMT	30			170	5100
<b>TOTAL RS.</b>							<b>0.00</b>	<b>129518</b>
<b>SUB-HEAD -VII : MISCELLANEOUS ITEMS</b>								
1		Supply, installation, testing & commissioning of water dispenser, suitable for 20 litre water cans, with 5 litre storage capacity with outlets for normal, cold and hot water, single door, with separate compartment for refrigerator zone along with voltage stabilizer complete as required Make: Voltas, Usha, Haier	Set	1			18500.00	18500.00
2		Supply Installation, Testing & Commissioning of Intel i7 4th Generation processor 3Ghz, 4GB RAM with 2TB hard disk, DVD-RW/keyboard/optical mouse/LAN card/19" LED monitor. Minimum 6 USB ports. With pre-loaded licensed Windows 7 Professional software as per specifications., Make: Dell/HP	Set	2			65000.00	130000.00
<b>TOTAL RS.</b>							<b>0.00</b>	<b>148500.00</b>