

SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS FOR PROPOSED AMRIT PHARMACY AT AIIMS RISHIKESH.					
BILL OF QUANTITIES					
SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
SUB-HEAD - I : INTERNAL WIRING					
1	Wiring for circuit/ submain wiring alongwith earth wire with the follwing size of FRLS PVC Insulated copper conductor, single core cable in surface/ recess medium class PVC conduit as required.				
i)	2x 2.5 sqmm+ 1x 2.5 sqmm earth wire	Meter	0		
ii)	2x 6 sqmm+ 1x 6 sqmm earth wire	Meter	80		
iii)	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Meter	20		
2	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	40		
3	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5		
4	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	6		
5	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	5		
6	Suppling 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 commisioning as required.	Each	2		
7	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		
ii)	25mm dia PVC conduit	Metre	70		
iii)	32mm dia PVC conduit	Metre	10		
8	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		
TOTAL RS.					
SUBHEAD- II : DISTRIBUTION BOARD					
1	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 + 4 way/6 way, double door	Each	1		
2	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.				
	Single Pole	Each	4		
3	Supplying and Fixing of following rating double pole 240 Volts isolator in the existing MCB DB complete				
	40 amps	Each	1		
TOTAL RS.					
SUB HEAD- III : T.V. , TELEPHONE SYSTEM & LAN SYSTEM					
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:				
b)	2 Pair	Metre	40		
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.				
a)	5 Pair telephone cable	Metre	45		

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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.				
a)	5 pair tag block	Each	1		
4	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required. Make: Panduit, Systimax, Belden	Each	2		
5	Supplying and fixing M.S. box with modular type data/ computer (RJ-45) outlet complete as required. Make: Panduit, Systimax, Belden	Each	2		
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	40		
7	Supply, installation, testing and commissioning of cat-6 patch cord 3 metre complete as per specifications as required.	Nos.	4		
8	Supply, installation, testing and commissioning of cat-6 patch cord 1 metre complete as per specifications as required.	Nos.	2		
9	Supply, installation, testing and commissioning of SC-SC patch cord complete as per specifications as required.	Nos.	2		
10	Supply installation testing and commissioning of 24-port managed layered 2 switch with SFP uplink as per specifications complete as required.	Nos.	1		
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		
	TOTAL RS.				
	SUB-HEAD - IV : CCTV SYSTEM				
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	2		
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, aalong with 15" monitor, with external alarm inputs & outputs TCPIP network feature for remote monitoring & 500GB HDD Make: honeywell, bosch, samsung	Each	1		
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		
	TOTAL RS.				
	SUB-HEAD - V : UPS SYSTEM				
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		
	TOTAL RS.				
	SUB-HEAD -VI : AC UNITS -Hi Wall Split Unit				
1	Supplying, installation, testing and commissioning of 4 star rated Air Cooled Split type Wall Mounted Air-				
1.1	1.5 Tr capacity	Set	2		
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		
3	Supply, installation, testing & commissioning PVC drain piping with fittings, &duly insulated with 6 mm thick Nitrile insulation.				
	25 mm dia.	RMT	30		
	TOTAL RS.				

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SUB-HEAD -VII : MISCELLANEOUS ITEMS					
1	Supply, installation , testing & commissioning of water dispenser, suitable for 20 litre water cans, with 5 litre storage capacity with outlets for normall, 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		
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		
TOTAL RS.					