

PROPOSED AMRIT PHARMACY AT AIIMS BHUBANESWAR		
SUMMARY - INTERIOR, ELECTRICAL AND OTHER SERVICES WORKS		
SL. NO.	DESCRIPTION	AMOUNT (RS.)
1	Interior Works	
2	Electrical and Other Services Works	
	TOTAL	

PROPOSED AMRIT PHARMACY AT AIIMS BHUBANESWAR
BILL OF QUANTITIES - INTERIOR WORKS

Sl.No.	Description	Unit	Qty	Rate	Amount
A	FLOORING				
1	VITRIFIED TILES: Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), including grouting the joints with white cement and matching pigments etc., complete				
	Size of Tile 600x600 mm	SqM	93.00		
	Make:Kajaria /Somany/ Equivalent				
B	PARTITIONS & PANELLING				
1	WOODEN FRAME WORK: P/F 50mmx50mm Kail wood frame (Seasoned, anti termite proofed) wood frame for paneling / partition in reception and other areas as per detailed drawing.	SqM	4.00		
2	PLYWOOD LAYER: P/F of 12mm thk commercial Ply fixed on relevant Frame Work	SqM	4.00		
	Make:Archidply/CenturyGreen ply/Truwood				
3	PLYWOOD LAYER: P/F of 18 mm thk commercial ply fixed on relevant Frame Work	SqM	4.00		
	Make:Archidply/CenturyGreen ply/Truwood				
4	LAMINATION: P/L 1mm thick lamination as per approved colour and texture on ply/board where ever necessary including glue and required hardware.	SqM	16.00		
	Make: Marino / Archid/ Greenlam/Equivalent				
C	CEILING				
1	GRID CEILING : P/F of Mineral Fibre Acoustical Suspended Ceiling System with (MICRO LOOK) EDGE TILES :The tiles-Humidity Resistance (RH) of 99%, NRC 0.7, Light Reflectance >88%, Thermal Conductivity k = 0.052- 0.057 w/m K, Colour White, Fire Performance A2-s1.d0 in module size as/dsgn /19 mm thk with Bio Block coating on the face of the tile, suitable for Green Building application, with Recycled content of 81-84%. The tile shall be laid on 15mm tegular profile grid system as/manufactures standards.				
	INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using same make suspension system at 1200mm maximum centre & not more than 150mm from spliced joints. The First/Last suspension system at the end of each main runner should not be greater than 600mm from the adjacent wall. 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. All Perimeter trim to be of wall angles, secured to walls at 450 mm maximum centres.				
	SUSPENSION SYSTEM accessories consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26 x 25 x 1.2mm .Straightened Hanger wire of dia – 2.68 mm of 1.83 m length., thickness with Adjustable hook clips of 0.8mm thick.The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner.(Service Areas)				
	Make: Armstrong/Equivalent				
	Tile: 600x600x12	Sqm	93.00		

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Sl.No.	Description	Unit	Qty	Rate	Amount
D	FIXED STORAGES				
1	MEDICINE STORAGE: P/F of 2400mm high storage unit. 600mm deep laminated storage unit with 18mm thk laminated shelves and shutters fixed with auto hinges to be provided.The height of 600mm deep storage shall be 750mm. 350mm deep storage unit to be fixed between two 150mm wide laminated facia. 325mm wide 8mm thk toughened glass shelves to be fixed with adjustable holders till 2100mm. In built over head storage unit of 350mm depth 300mm height, with shutters to be fixed above 2100mm height. Note: Storage unit to include: Shutters of 18mm thk laminated ply ,12mm thick back and 18mm thick side ply, auto closing hinges, individual locks, 150mm long 8mm dia C” handle, adjustable screws.adjustable levers.	SqM	73.00		
	Make:Laminates: Greenlam-283 Sky blue				
	Ply board:Birla gold/Duro / Marino/Century/Equivalent				
	Fittings: Ozone / Dorma/Equivalent				
2	COUNTER: P/F of Double level Counter of 750mm depth and Counter top at 1050mm level 275 mm wide. 12mm thick Korean white acrylic sheet to be used for counter top on 25mm thk commercial ply. 1mm thk “L” shaped laminate strip of 150x200 to be fixed on 18mm thk ply at 850mm lvl. Display unit with 8mm thick toughened glass facia and 18mm thick laminated shelves to be inbuilt in counter. Under counter shorage unit to be fixed with indivual locks and handles as per drawing. 150mm high SS glossy skirting, 600mm wide laminated door and movable counter as per design. Provision to be made to place the Cash Locker of standard size, supplied by client.	SqM	10.00		
	Make: Greenlam-173 Barbie Pink, 283 Sky Blue/LG Hausys				
	Ply board:Birla gold/Duro / Marino/Century/Equivalent				
3	Providing and fixing work stations made out of post formed top in 25mm thick pre laminated MDF board with 2mm thick PVC edge binding of matching shade where ever is required, making 1 nos. of cable manager 50mm dia holes with PVC caps as required. Partitions: 1200mm high, 45 mm thick with CRCA/Aluminium Power coated frames or equivalent to approved make, a combination of laminated (under table worktop.) particle board with fabric with soft padding pin board (above worktop) and the end caps (horizontal and vertical) metal powder coated coping edges, trims etc. with 2 raceways for wire management complete as required and directed.(Panel composition same for both inside and outside) Including12 mm thick toughened glass at work top in between workstations and 25 mm thick laminated board under work top (gable end) to rest each work stations matching in shade with existing furniture as required and directed				
	Work station - 1200 (L)X600(D)X750(H) mm including 45mm thk ,1200mm high partition with end side partitions with Pinup boards fabric and white board panels and keyboard rack, side unit - 450(L)X450(D)XX700(H) having 2 drawer & one file rack including all hardware fittings such three-way locks and SS handles as approved.	Nos	2.00		
	Approved Make: MDF Board: Action Tesa/ Asis/Greenlam or equivelent;				
	Laminates: Action Tesa, Green lam, Marino/formica or equivelent;				
	Hardware fitting: Hettich or equivelent				
4	HIGH STOOLS : P/P fabric seat /back , 5 pronged chrome plated finish base on twin wheel casters with 3600 Swivel gas lift height adjustment, Color of upholstery as per app.	Nos	7.00		
	Make: Multi Seats/ Geeken/ Featherlite				

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Sl.No.	Description	Unit	Qty	Rate	Amount
E	PAINTING & FINISHING				
1	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade :				
	New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm	SqM	117.00		
	Make: ICI/Nerolac/ Asian/ Berger				
2	ACRYLIC EMULSION PAINT - Apply 3 coats in roller mode-paint with oxy rich 100% acrylic water base coating. Paint shall emit 90% less VOC, Soft sheen, High Scrub resistant, free from lead, Mercury, Chromium. Rate include base preparation as per site conditions.paint, Colour : Blue	SqM	98.00		
	Make: ICI, Nerolac, Asian, Berger				
3	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
	Two coats	SqM	42.00		
4	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	SqM	42.00		
F	SIGNAGES				
1	P/F signages on acrylic backlit panel of size 450X2400mm of approved design with proper lighting and powersupply arrangement	No	1.00		
G	MISCELLANEOUS WORKS				
1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	2.00		
2	15 mm cement plaster on rough side of single or half brick wall of mix :				
	1:6 (1 cement: 6 fine sand)	SqM	4.00		
TOTAL					

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BILL OF QUANTITIES - ELECTRICAL AND OTHER SERVICES WORKS					
SL.NO	DESCRIPTION	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
SUB-HEAD - I : INTERNAL WIRING					
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit with modular switch modular plate suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc.as required.				
1.1	Group C	Point	18		
2	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.				
2.1	2x 2.5 sqmm+ 1x 2.5 sqmm earth wire	Meter	80		
2.2	2x 4.0 sqmm+ 1x 4.0 sqmm earth wire	Meter	100		
2.3	2x 6 sqmm+ 1x 6 sqmm earth wire	Meter	80		
2.4	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Meter	25		
3	Supplying and fixing of Stepped type electronic fan regulator on the existing modular plate & switch box including connections but excluding modular plate etc. as required.	Each	6		
4	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	10		
5	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	14		
6	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	10		
7	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent /LED fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	12		
8	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq.mm FRLS PVC insulated, copper conductor, single core cable,including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	6		
9	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	3		
10	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.				
10.1	25mm dia PVC conduit	Metre	100		
10.2	32mm dia PVC conduit	Metre	30		
11	Supplying and fixing of carbon dioxide fire extinguisher type 4.5 kgs. Capacity of approved make with wall mounting bracket as required conforming to IS: 2878/1976 (Push type).	Each	2		
12	Supplying and fixing 3 phase energy meter upto 5 KW load with cubical meter board complete as required. (Make - Jaipur / Bentex)	Each	1		
TOTAL RS.					
SUB-HEAD II - FANS & LIGHT FIXTURES:					
1	Supplying of minimum 36 watt LED recessed type (600 mm X 600 mm) extruded aluminium luminaire with heat sink installed back side, high quality diffuser fix in front frame max depth of 10mm total system wattage less than 45W with LED (36X1W LED) operating at 350 mA. lamp color 4000k, complete with electronic driver, CRI 80, lamp life 50,000 hrs, warranty 5 years , lockable holders and including connection etc. as required ,similar to Bajaj make BZRSQ 3601 WH.	Each	12		
2	Supplying of 1200 mm sweep ceiling fan, White Colour, 5-Star rated as per BEE complete with blades, down rod, shackle insulator, canopy etc.	Each	6		
TOTAL RS.					
SUBHEAD- III: DISTRIBUTION BOARD & MCB					

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SL.NO	DESCRIPTION	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
1	Supplying and fixing 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 earthing etc. as required.(But without MCB/RCCB/Isolator)				
1.1	2 + 4 way/6 way, double door	Each	1		
2	Supplying and fixing prewired TP&N,MCB distribution board of sheet steel 415 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 earthing etc. as required.(But without MCB/RCCB/Isolator)				
2.1	8 way (4+24),Double door	Each	1		
3	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.				
3.1	Single Pole	Each	22		
4	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.				
4.1	40 amps	Each	1		
5	Supplying and Fixing of following rating four pole 415 Volts isolator in the existing MCB DB complete with connections ,testing and commissioning etc as required.				
5.1	40 amps	Each	1		
6	Supplying & Fixing of following rating double pole (single phase and neutral) 240 volts, Residual Current Circuit Breaker (RCCB), having a sensitivity current upto 300 milli-amperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
6.1	40 Amps	Each	3		
	TOTAL RS.				
	SUB-HEAD -IV : L.T. CABLES				
1	Supply of following sizes of XLPE Aluminum conductor Armoured cable, overall PVC sheathed 1.1 KV grade cables conforming to relevant IS code IS : 1554 and technical specifications.				
1.1	4 x 16 sq.mm	Metre	45		
2	Laying and fixing of one no PVC insulated and PVC sheathed /XLPE power cable of 1.1 kV grade of following size on Cable tray as required.				
2.1	Up to 35 sqmm	Metre	45		
3	Supplying & making of end terminations with brass compression gland and Al. lugs for following sizes of PVC insulated and PVC sheathed/ XLPE Al. conductor cable of 1.1 KV grade as required.				
3.1	4 x 16 sq.mm	Set	2		
	TOTAL RS.				
	SUB-HEAD -V : EARTHING				
1	Earthing with GI earth plate 600 x 600 x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement with watering pipe complete with coke and salt etc. as required.	Each	2		
2	Providing and fixing 4 mm dia copper wire on surface or in recessed for loop earthing along with existing surface/recessed conduit/submain wiring/cable as required.	Metre	45		
	TOTAL RS.				
	SUB HEAD-VI : 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:				
1.1	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.				
2.1	5 Pair telephone cable	Metre	45		

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SL.NO	DESCRIPTION	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
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		
4	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required. Make: Systimax, Belden, MK, Legrand, Simone	Each	2		
5	Supplying and fixing M.S. box with modular type data/ computer (RJ-45) outlet complete as required. Make: Systimax, Belden, MK, Legrand, Simone	Each	6		
6	Supply and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface / recessed PVC/steel conduit as required. Make: Delton, Finolex, Polycab, Bonton	Metre	120		
7	Supply, installation, testing and commissioning of Cat-6 patch cord 3 metre complete as per specifications as required.	Nos.	6		
8	Supply, installation, testing and commissioning of cat-6 patch cord 1 metre complete as per specifications as required.	Nos.	6		
9	Supply installation testing and commissioning of 8-port managed layered 2 switch with SFP uplink as per specifications complete as required.	Nos.	1		
10	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 -VII : CCTV SYSTEM					
1	Supply, installation, testing & commissioning of Vandal resistant IK 10 mini Dome camera Full HD 2.14 mega pixel high sensitivity with CMOS sensor or better , H.264 1920x1080 @ 30 fps with 16:9 aspect ratio, WDR 90db or better ,colour 0.18 lux @30 IRE or better , Lens size 2.8 mm or better, Triple Streaming, Horizontal View 113 degree or better, Bit rate Compression Mode CBR/VBR (Selectable option in camera) POE, Analytics like Line crossing ,Idle Object ,Face Detection etc, SD card slot , operating temp: -10 deg +50deg C. 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 (The contractor may select the next higher version/model if it is not readily available, without any extra cost) Make: Honeywell, Bosch, Samsung	Each	1		
3	Supply, installation, testing and commissioning of power supply unit with sealed maintenance free batteries upto 24V - 120AH complete as required.	Each	1		
TOTAL RS.					
SUB-HEAD -VIII : UPS SYSTEM					
1	Supply, Installation, testing & commissioning of 1x 2 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 30 minutes back up, Battery Racks MS Powder Coated etc complete as required. Make: Eaton, A.P.C, Emerson, GE, Mitsubishi	Set	1		
TOTAL RS.					
SUB-HEAD -IX : AC UNITS -Hi Wall Split Unit					
1	Supplying & installation, commissioning and testing of 5-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 comply 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 remort 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 diretions of Engineer -in-charge. (The contractor may select the next higher version/model if it is not readily available, without any extra cost) Make: Voltas, Bluestar, Daikin, Hitachi, Carrier				
1.1	2 TR capacity	Set	4		

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SL.NO	DESCRIPTION	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
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	56		
3	Supply, installation, testing & commissioning PVC drain piping with fittings, &duly insulated with 6 mm thick Nitrile insulation.				
3.1	25 mm dia.	RMT	40		
TOTAL RS.					
SUB-HEAD -X : MISCELLANEOUS ITEMS					
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		
TOTAL RS.					
GRAND TOTAL					