

<u>PROPOSED AMRIT PHARMACY AT AIIMS BHOPAL</u>		
<u>INTERIOR, ELECTRICAL & OTHER SERVICES WORKS</u>		
<u>ESTIMATED COST</u>		
SL.NO.	DESCRIPTION	AMOUNT (RS.)
INTERIOR WORKS		
1	FLOORING / CLADDING	
2	PARTITIONS & PANELLING	
3	DOORS & HARDWARES	
4	CEILING	
5	FIXED STORAGES	
6	PAINTING & FINISHING	
7	GRAPHICS & SIGNAGES	
8	MISCELLANEOUS	
SUB TOTAL		

SL.NO.	DESCRIPTION	AMOUNT (RS.)
ELECTRICAL & OTHER SERVICES WORKS		
1	INTERNAL WIRING	
2	FANS & LIGHT FIXTURES	
3	DISTRIBUTION BOARD & MCB	
4	L.T. CABLES	
5	EARTHING	
6	T.V.,TELEPHONE & LAN SYSTEM	
7	CCTV SYSTEM	
8	UPS SYSTEM	
9	AC UNITS	
10	MISCELLANEOUS ITEMS	
SUB TOTAL		
TOTAL		

PROPOSED AMRIT PHARMACY AT AIIMS BHOPAL

INTERIOR WORKS - BOQ

Sl.No.		Item	Unit	Qty	Rate	Amount
A		FLOORING / CLADDING				
1	NSR	<p>VINYL FLOORING-1: P/F of Vinyl Flooring of 2mm thick 100% recycled PVC flexible, homogeneous antistatic calendared compacted floor covering, minimum weight 3120 g/m2 in minimum sheet of size 2mtrs. x 20 mtrs. approved pattern & colour combination with PUR Protect or equivalent surface treatment having wear minimum resistance of $\leq 4.0\text{mm}^3$ as per EN 660.2 and wear group Group P as per EN-649 and should have a minimum residual indentation of $<0.03\text{mm}$ confirming to EN-433. The laid flooring should have non- directional design, colour dyed as a raw mixture to ensure even colour throughout the thickness and its surface should be densely compacted for improving wear and ease of maintenance with Anti-bacterial and Fungicidal properties. The laid flooring shall confirms the fire rating B1 class as per EN 13501-1. The floor finish should terminate at the room perimeter passing over a concealed cove former and continuing up the wall for 100mm. The joints in the flooring should be sealed by using a PVC welding bar of matching colour to be supplied by the manufacturer, using a hot air gun for fusion of welding bar with flooring. The subsurface undulations, if any to be filled using suitable materail approved by Engineer-in-Charge, prior to the laying of flooring sheet. Roll shall be installed with glue.</p> <p>Make:Polyflor,LGHausys/Equivalent as approved (Basic Rate-1600Rs/SqM)</p>	SqM	2.00		
2	NSR	<p>CARPET FLOORING:-P&F of modular carpet tile, made of 100% Polyamide (also called Nylon) yarn, manufactured in Europe (no Asian manufacturing acceptable), primary backing of 100% recycled material Col-back®, secondary backing of Back2Back: Modified bitumen enhanced with a thermoplastic elastomer, reinforced with a glass fibre fleece covered with 100% PES fleece, with 10% recycled content included. Design intent to be of Modulys range, as finalized by the consultants and the minimum pile weight of 540g/m^2 (16Oz/yd^2). It should have minimum total height of 6mm, minimum tuft density of Ca. $186.000/\text{m}^2$. The said carpet should be classified for continuous use under chair castors and achieve class: A as per EN985, it should be classified for use under heavy traffic usage and achieve class 33-LC1 as per EN1307, it should dimensionally stable to a max limit of 0.2% as per EN986, it should have fire resistance rating of Bfl-S1 as per EN 13501-1, it should achieve permanent anti-static reading of $\leq 2\text{kV}$ as per ISO 6356, it should achieve a reading of ≥ 7 for colour fastness to light as per ISO 105-B02, it should achieve a reading of ≥ 4 for rubbing fastness as per ISO 105-X12, it should achieve a reading of ≥ 4 for colour fastness to water as per ISO 105-E01. The said selected modular carpet tile manufacturer should be in a position to furnish valid CRI-IAQ-GLP, ISO9001 (quality), ISO14001 (environment), CRI IAQ GLP (indoor air quality), ISO26000 (CSR) certificates. The said modular tile should carry a warranty for 15 years. All this is to be installed on a smooth and dry sub floor, complete as per drawings and instructions of the consultants. Make:Shaw / Interface / CCIL / Miliken (Basic Rate-2100Rs/SqM)</p>	SqM	65.00		
3	11.41	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				
	11.41.2	Size of Tile 600x600 mm sqm	SqM	10.00		
		SUB TOTAL : FLOORING / CLADDING				
B		PARTITIONS & PANELLING				
1	NSR	<p>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.</p> <p>Make:India Gypsum/Lafarge/Equivalent</p>	SqM	2.00		
2	9.105	<p>GYPSUM BOARD PARTITIONS: Providing and fixing partition upto ceiling height consisting of G.I. frame and required board, including providing and fixing of frame work made of special section power pressed/ roll form G.I. sheet with zinc coating of 120 gms/sqm(both side inclusive), consisting of floor and ceiling channel 50mm wide having equal flanges of 32 mm and 0.50 mm thick, fixed to the floor and ceiling at the spacing of 610 mm centre to centre with dash fastener of 12.5 mm dia meter 50 mm length or suitable anchor fastener or metal screws with nylon plugs and the studs 48 mm wide having one flange of 34 mm and other flange 36 mm and 0.50 mm thick fixed vertically within flanges of floor and ceiling channel and placed at a spacing of 610 mm centre to centre by 6 mm dia bolts and nuts, including fixing of studs along both ends of partition fixed flush to wall with suitable anchor fastener or metal screws with nylon plugs at spacing of 450 mm centre to centre, and fixing of boards to both side of frame work by 25 mm long dry wall screws on studs, floor and ceiling channels at the spacing of 300 mm centre to centre.</p>				

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	9.105.1	The boards are to be fixed to the frame work with joints staggered to avoid through cracks, M.S. fixing channel of 99 mm width (0.9 mm thick having two flanges of 9.5 mm each) to be provided at the horizontal joints of two boards, fixed to the studs using metal to metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, angle beads at corners (25 mm x 25 mm x 0.5 mm), joint finisher and two coats of primer suitable for board as per manufacture's specification and direction of engineer in charge all complete. 75 mm overall thickness partition with 12.5 mm thick double skin fire rated board conforming to IS: 2095: part I	SqM	26.00		
3	NSR	PLYWOOD LAYER: P/F of 12mm thk BWP Ply fixed on relevant Frame Work (GI/Merandi Wood frame work). Make:Archidply,Green ply,Truwood	SqM	2.00		
4	NSR	PLYWOOD LAYER: P/F of 19mm thk commercial board fixed on relevant Frame Work (GI/Merandi Wood frame work). Make:Archidply,Green ply,Century	SqM	2.00		
5	NSR	MDF LAYER: P/F of 12 mm thk. MDF complete with grooves as per detail finished with grooves.in columns. Edges of MDF to be finished in the same finish match to main panel.	SqM	2.00		
6	NSR	LAMINATION: P/L 1mm thick lamination as per approved colour and texture on ply/board where ever necessary including glue and required hardware Make: Marino / Archid/ Greenlam/Equivalent	SqM	5.00		
		SUB TOTAL : PARTITIONS & PANELLING				
C		DOORS & HARDWARES				
1	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.				
	21.1.1.2	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	200.00		
2	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge				
	21.3.3	With float glass panes of 8 mm thickness	SqM	24.00		
3	NSR	GLASS DOOR: Providing and fixing 12 mm thick frameless toughened glass openable doors of any sizes, single leaf or double leaf and of approved brand and manufacturer, including providing and fixing top & bottom patch fitting, patch lock, heavy duty floor spring and S.S handle and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge & TS. Designer frosted film shall be provided as per drawing or direction of Engineer-in-charge. Make: Ozone/ Dorma	SqM	6.00		
4	10.6	ROLLING SHUTTER: Supplying and fixing rolling shutters of approved make, made of required size M.S. laths, interlocked together through their entire length and jointed together at the end by end locks, mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete, including the cost of providing and fixing necessary 27.5 cm long wire springs manufactured from high tensile steel wire of adequate strength conforming to IS: 4454 - part 1 and M.S. top cover of required thickness for rolling shutters. (Measurent shall be for opening area only)				
	10.6.1	80X1.20mm mm MS Laths with 1.20mm thick top cover	Sqm	20.00		
4.1	10.7	Providing and fixing ball bearing for rolling shutters	Each	4.00		
4.2	10.8	Extra for mechanical devices chain and cranked operation for operating rolling shutters: exceeding 10.00 sqm and up to 16.80 sqm area of door				
	10.8.1	Exceeding 10.00 sqm and upto 16.80 sqm in the area	Sqm	20.00		
		SUB TOTAL : DOORS & HARDWARES				

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INTERIOR WORKS - BOQ

Sl.No.		Item	Unit	Qty	Rate	Amount
D		CEILING				
1	NSR	<p>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.</p> <p>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.</p> <p>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)</p> <p>Make: Amf/Armstrong/Equivalent Tile: 600x600x20</p>	Sqm	80.00		
		SUB TOTAL CEILING:				
E		FIXED STORAGES				
1	NSR	<p>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. 300mm wide 10mm thk toughened glass shelves to be fixed with aluminium channel and adjustable holders till 2100mm. In built over head storage unit of 350mm depth 300mm height to be fixed above 2100mm height. Note: Storage unit to include: Shutters of 18mm thk prelimante,18mm thick, back ply, auto closing hinges, individual locks, 150mm lonk 10mm dia "H" handle, adjustable screws.adjustable levers.</p> <p>Make:Greenlam-283 Sky blue /Duro / Marino</p>	SqM	30.00		
2	NSR	<p>COUNTER:P/F of Double level Counter of 750mm depth and Counter top at 1050mm level 275 mm wide. 12mm thick Korean acrylic sheet to be used for counter top on 25mm thk commercial ply. 12mm thk "L" shaped laminated strip of 150x200 to be fixed with 12mm thk ply at 850mm. Display unit with 8mm thick toughened glass facia and 18mm thick prelaminated shelves to be inbuilt in counter with movable shutter. Under counter shorage unit to be fixed with indivual locks and handles as per app. 150mm high SS glossy skirting. 600mm wide laminated door and openable counter top to be part of the counter as per design. Provision to be made for fixing Cash Locker supplied by client.</p> <p>Make: Greenlam-173 Barbie Pink, 283 Sky Blue/LG Hausys-G019 Natural Quartzs/ Equivalent</p>	SqM	10.00		
3	NSR	<p>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</p> <p>Work station - 1200 (L)X600(D)X750(H) mm including 45mm thk back to back and 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.</p> <p>Approved Make: MDF Board: Action Tesa/ Asis/Greenlam or equivalent; Laminates: Action Tesa, Green lam, Marino/formica or equivalent; Hardware fitting: Hettich or equivalent</p>	Nos	2.00		
4	NSR	<p>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.</p> <p>Make: Multi Seats/ Geeken/ Featherlite</p>	Nos	6.00		
		SUB TOTAL : FIXED STORAGES				

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Sl.No.		Item	Unit	Qty	Rate	Amount
F		PAINTING & FINISHING				
1	NSR	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 Make:Berger / Nerolac / Asian	SqM	150.00		
2	NSR	DUCO PAINT: P/A Duco Lacquer finish including all subsurface preparation. Basic Rate including application: 650/SqM Make: ICI, Nerolac, Asian, Berger	SqM	5.00		
3	13.84	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.				
	13.84.2	Two coats	SqM	40.00		
3.1	13.85	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
3.2	13.85.2	With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	SqM	40.00		
		SUB TOTAL : PAINTING & FINISHING				
G		GRAPHICS & SIGNAGES				
1	NSR	FROSTED FILM : P/A of Anti glare - Dusted and frosted FILM to look like sandblasted or etched glass, Permanent, pressure-sensitive films to have transparent synthetic liner for easy cutting of logos or designs. Basic Rate-1240 Rs/SqM, Rates to include all delivery at site, installation & relevant taxes Make:3M™ Crystal™ Glass Finishes 7725SE-314 Dusted Crystal / Garvare/ Equivalent	SqM	6.00		
2	NSR	CORPORATE SIGNAGE : LED display board multicolor outdoor signage, LED-P-10 tile, size 5mm oval, box-MS power coated, power supply-220V-AC. Size:2400x450	Nos	1.00		
3	NSR	SIGNAGES: Photo luminiscent All signs can be provided on Acrylic, Rigid PVC with reflective Vinyl of different colours, Powder coated or Anodized, Aluminium sheets, Back-lit-vinyl-polycarbonate sheets and also on autoglo Photoluminescent sheets which glow-in-the-dark.size:150x300	Nos	1.00		
		SUB TOTAL : GRAPHICS & SIGNAGES				
F		MISCELLANEOUS				
1	6.4	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 :				
	6.4.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	8.00		
2	13.5	15 mm cement plaster on rough side of single or half brick wall of mix :				
	13.5.2	1:6 (1 cement: 6 fine sand)	SqM	65.00		
3	10.1	Structural steel work in single section, fixed with or without connecting plate, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	Kg	70.00		
		SUB TOTAL : MISCELLANEOUS				
		TOTAL				

PROPOSED AMRIT PHARMACY AT AIMS BHOPAL					
BILL OF QUANTITIES FOR SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS					
SL.NO	DESCRIPTION OF ITEM	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.				
	Group C	Point	16		
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	90		
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	35		
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	12		
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	8		
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 chamed metal cover for the socket outlet and complete with connection testing and	Each	4		
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	10		
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		
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 make of Cree/ Nichea(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 BGRSQL 3601 WH or GE Troffer or Vivo LED.	Each	12		
3	Supplying of 1200mm sweep ceiling fan 5-star rate 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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BILL OF QUANTITIES FOR SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS					
SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
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 and fixing following way,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)				
	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.				
	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.				
	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.				
	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.				
	40 Amps	Each	3		
	TOTAL RS.				
	SUB-HEAD -IV : L.T. CABLES				
1	Supply, laying and testing of under noted sizes of Aluminium conductor XLPE insulated PVC sheathed & sleeved armoured and overall PVC sleeved 1.1 KV grade power distribution cables conforming to relevant IS code and as per specification in ground (in existing trenches) through pipe or on wall / racks cable trays including dressing and clamping the cable with MS zinc passivated clamps etc. as required.				
i)	4 x 16 sq.mm	Metre	45		
2	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.				
i)	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	supplying, laying testing commissioning of 1x4 sq.mm. CU flexible cable for earthing on surface or in recess in existing conduit complete 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:				
a)	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		
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		

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SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
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	6		
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	120		
7	Supply, installation, testing and commissioning of cat-6 patch cord 3 metre complete as per specifications as required.	Nos.	12		
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 SC-SC patch cord complete as per specifications as required.	Nos.	6		
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 -VII : 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 -VIII : 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 -IX : AC UNITS -Hi Wall Split Unit					
1	Supplying & installation, commissioning and testing 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 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. Make: Voltas, Bluestar, Daikin				
1.1	2 Tr capacity	Set	4		

PROPOSED AMRIT PHARMACY AT AIMS BHOPAL					
BILL OF QUANTITIES FOR SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS					
SL.NO	DESCRIPTION OF ITEM	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	80		
3	Supply, installation, testing & commissioning PVC drain piping with fittings, &duly insulated with 6 mm thick Nitrile insulation.				
	25 mm dia.	RMT	60		
	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		
2	Supplying and fixing 3 phase energy meter upto 5 KW load with cubical meter board complete as required. (Make - Jaipur / Bentex)	No.	1		
3	Supply and fixing of changeover switch front operated, sheet steel enclosure 63 Amp. four pole, 415 V, 50 Hz including connection etc. complete as required.	No.	1		
TOTAL RS.					
GRAND TOTAL RS.					