

SETTING UP OF AMRIT PHARMACY - AIIMS RISHIKESH		
INTERIOR, ELECTRICAL AND OTHER SERVICES WORKS		
<u>BILL OF QUANTITIES</u>		
SL.NO.	DESCRIPTION	AMOUNT (RS.)
	<b>INTERIOR WORKS</b>	
1	FLOORING / CLADDING	
2	PARTITIONS & PANELLING	
3	CEILING	
4	FIXED STORAGES	
5	PAINTING & FINISHING	
6	MISCELLANEOUS	
7	STEEL WORKS	
8	SANITARY WORKS	
	<b>ELECTRICAL &amp; OTHER SERVICES</b>	
9	INTERNAL WIRING	
10	DISTRIBUTION BOARD & MCB	
11	T.V. , TELEPHONE SYSTEM & LAN SYSTEM	
12	CCTV SYSTEM	
13	UPS SYSTEM	
14	AC UNITS	
15	MISCELLANEOUS ITEMS	
	<b>TOTAL</b>	

**SETTING OF PROPOSED AMRIT PHARMACY AT AIIMS RISHIKESH- INTERIOR WORKS**

**BILL OF QUANTITIES**

Sl.No.	Item	Unit	Qty	Rate	Amount
<b>A</b>	<b>FLOORING / CLADDING</b>				
1	<p><b>VINYL FLOORING-1:</b> 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 &amp; colour combination with PUR Protect or equivalent surface treatment having wear minimum resistance of <math>\leq 4.0\text{mm}^3</math> as per EN 660.2 and wear group Group P as per EN-649 and should have a minimum residual indentation of <math>&lt;0.03\text{mm}</math> 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	10.00		-
2	<p><b>CARPET FLOORING:-</b>Supply and Installation of carpets tiles as per following specifications sheet. The quoted rate include stain less steel end terminators and polythene protection cover, vacuuming and shampooing of the carpet before handing over inspection.</p> <p>Construction: Textured Loop Pattern ,Dye Method:50% PA6 Solution Dyed +50% PA6 Solution Dyed Space,Yarn/Fabric: 100% PA (Polyamide, which is also called NYLON),Backing : Primary-100% recycled "Col-Back" non woven, Tile Thickness :2.8mm, Tile Size: 50cm x 50cm, Warrenty: 15 year warranty. Make:Shaw / Interface / CCIL / Miliken (Basic Rate-2100Rs/SqM)</p>	SqM	10.00		-
	<b>Total: Flooring / Cladding</b>				
<b>B</b>	<b>PARTITIONS &amp; PANELLING</b>				
1	<b>WOODEN FRAME WORK:</b> P/F 50mmx50mm <b>Kail wood frame</b> (Seasoned, anti termite proofed) wood frame for paneling / partition in reception and other areas as per detailed drawing.	SqM	2.00		-
2	<p><b>PLYWOOD LAYER:</b> P/F of 12mm thk BWP Ply fixed on relevant Frame Work (GI/Merandi Wood frame work).</p> <p>Make:Archidply,Green ply,Truwood</p>	SqM	2.00		-
3	<b>MDF LAYER:</b> 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		-
4	<b>PLYWOOD LAYER:</b> P/F of 19mm thk commercial board fixed on relevant Frame Work (GI/Merandi Wood frame work).	SqM	2.00		-
5	<p><b>LAMINATION:</b> P/L 1mm thick lamination as per approved colour and texture on ply/board where ever necessary including glue and required hardware</p> <p>Make: Marino / Archid/ Greenlam/Equivalent</p>	SqM	2.00		-
	<b>Total: Partitions &amp; Panelling</b>				

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<b>C</b>	<b>CEILING</b>				
1	<p><b>GRID CEILING</b> :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 &gt;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><b>INSTALLATION:</b> To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using same make suspension system at 1200mm maximum centre &amp; 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><b>SUSPENSION SYSTEM</b> 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</p> <p>Tile: 600x600x19</p>	SqM	10.00		-
	<b>Total : Ceiling</b>				
<b>D</b>	<b>FIXED STORAGES</b>				
1	<p><b>MEDICINE STORAGE:</b>P/F of 2400mm high storage unit.600mm deep prelaminate storage unit with 18mm thk prelaminate 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 unite 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 with ABS edge banding. (Item B)</p> <p>Make:Greenlam-283 Sky blue / Duro/ Marino</p>	SqM	15.00		-
2	<p><b>MEDIUM STORAGE:</b> P/F of prelaminate storage unit of 18mm thk prelam board top with ABS edge banding as sides of the storage as/dsgn.18mm thick prelam board hinged Shutter and Shelf with laminate and handle with individual locks. 6mm thk laminated ply as backing of the unit along with 18mm thk prelam board as adjustable shelves.</p> <p>Size:800x400x900(Item C)</p> <p>Size:800x400x2400(Item D)</p> <p>Make:Archidply,Green ply,Century</p>	SqM	15.50		-
3	<p><b>COUNTER:</b> To provide Counter of 550mm depth and Counter top at 850mm level. 12mm thk 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 prelaminate shelves to be inbuilt in counter. UPS and inverter shutters to be fixed with aluminium louvers as per dwg. Under counter storage unit to be fixed with individual locks and handles as app. 150mm high SS glossy skirting. 600mm wide laminated door and openable counter top to be part of the counter as per design. Shop drawing will be provided by the contractor</p> <p>Make: Greenlam-173 Barbie Pink, 283 Sky Blue, LG Hausys-G019 Natuaral Quartzs/ Equivalent</p>	SqM	3.50		-

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4	<b>HIGH STOOLS</b> : To provide 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. Make: Multi Seats/ Geeken/ Featherlite	Nos	3.00		-
	<b>Total: Fixed Storages</b>				
<b>E</b>	<b>PAINTING &amp; FINISHING</b>				
1	<b>ACRYLIC EMULSION PAINT</b> - Apply 3 coats in roller mode-paint wioth 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	60.00		-
2	<b>DUCO PAINT:</b> P/A Duco Lacquer finish including all subsurface preparation. Basic Rate including application: 650/SqM Make: ICI, Nerolac, Asian, Berger	SqM	60.00		-
	<b>Total : Painting&amp; Finishing</b>				
<b>F</b>	<b>MISCELLANEOUS</b>				
1	<b>FROSTED FILM</b> : 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	2.00		-
2	<b>WALL GRAPHICS:</b> Providing and fixing 3M controltech 180-C comply with 3M Code 1220 over Laminate digitally printed with 5 yrs MCS warranty. Rates to include all delivery at site,installation. Basic Rate Rs.3230/SqM. Make:3M / Garvare/ Equivalent	SqM	2.00		-
<b>G</b>	<b>STEEL WORKS</b>				
1	<b>CORPORATE SIGNAGE</b> : LED display board multicolor outdoor signage, LED-P-10 tile, size 5mm oval, box-MS power coated, power suply-220V-AC. Size:2400x450	Nos	1.00		-
2	<b>SIGNAGES:</b> 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		-
	<b>Total: Miscellaneous</b>				
<b>H</b>	<b>SANITARY WORKS</b>				
1	Providing and fixing Pedestal Wash basin Make: Somany/Jaguar/Equivalent	Nos	1.00		-
2	Providing and fixing C.P. brass angle valve for Wash basin mixer of approved quality conforming to IS:8931 a) 15 mm nominal bore	Nos	2.00		-
3	Providing & fixing chrome plated brass pillar cock including connection pipe complete in all respects, having foam flow technology. Make: Somani 210901, Jaquar/Equivalent 15 mm nominal bore	Nos	1.00		-
	<b>Total : Sanitary Works</b>				
	<b>TOTAL</b>				-

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.)
<b>SUB-HEAD - I : INTERNAL WIRING</b>					
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		
<b>TOTAL RS.</b>					
<b>SUBHEAD- II : DISTRIBUTION BOARD</b>					
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		
<b>TOTAL RS.</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:				
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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SL.NO	DESCRIPTION OF ITEM	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.				
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		
	<b>TOTAL RS.</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	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		
	<b>TOTAL RS.</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		
	<b>TOTAL RS.</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-				
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		
	<b>TOTAL RS.</b>				

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SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
<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 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		
<b>TOTAL RS.</b>					