

PROPOSED AMRIT PHARMACY AT LADY HARDINGE MEDICAL COLLEGE, NEW DELHI		
SUMMARY OF COST - INTERIOR, ELECTRICAL AND OTHER SERVICES WORKS		
S.NO.	DESCRIPTION	AMOUNT (RS.)
	INTERIOR WORKS	
1	FLOORING & CLADDING	
2	PARTION AND PANNELLING	
3	DOOR	
4	CEILING	
5	FIXED STORAGE	
6	PAINTING AND FINISHING	
7	MISCELLANEOUS	
8	STEEL WORKS	
	ELECTRICAL & OTHER SERVICES	
9	INTERNAL WIRING	
10	FANS & LIGHT FIXTURES	
11	M.V. PANELS/ DISTRIBUTION BOARD	
12	L.T. CABLES	
13	EARTHING	
14	T.V. , TELEPHONE SYSTEM & LAN SYSTEM	
15	CCTV SYSTEM	
16	UPS SYSTEM	
17	AC UNITS	
18	MISCELLANEOUS ITEMS	
	TOTAL	

AMRIT PHARMACY AT LADY HARDRINGE MEDICAL COLLEGE, NEW DELHI - INTERIOR WORKS

BILL OF QUANTITIES

Sl.No.	Item	Unit	Qty	Rate	Amount
A	FLOORING / CLADDING				
1	VINYL FLOORING-1: P/F of 100% vinyl floor cover over reinforced fibreglass mat with PVC foam.Hetrogeneous sheet shall be sanitized(anti bacterial) protected with TopcleanXP (dirt resistant treatment for ease of maintenance) formaldehyde free. Roll shall be installed with glue. Texture-Sorrent, Dimension/Length-2M,Thickness not less than3.45mm Make:Polyflor,LGHausys/Equivalent (Basic Rate-1600Rs/SqM)	SqM	5.00		-
2	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 Modulyss range, as finalized by the consultants and the minimum pile weight of 540g/m² (16Oz/yd²). It should have minimum total height of 6mm, minimum tuft density of Ca. 186.000 /m². 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 ≤2kV 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)	SqM	30.00		-
	TOTAL: FLOORING / CLADDING				-
B	DRY WORKS				
B1	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	5.00		-
	ADDITIONAL LAYERS ON FRAME/WALL				
2	GYPSUM BOARD PARTITION: Providing and fixing of 75mm Thk Gypsum Board Partition comprising of 12.5mm thick Gypboard (conforming to IS: 2095 - 1982 and 2542 - 1981) screw fixed with 25 mm drywall screw at 300 mm centres to GI Frame Work with square and tapered edges of the boards jointed and finished so as to have a flush look, which includes filling and finishing with jointing compound, joint paper tape and two coats of Drywall Top Coat suitable for Gypboard. Single panel of Gypsum to be taken till bottom of slab. (Rate of frame work to be included Rate will be for single layer gypsum board).	SqM	10.00		-

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	GI FRAME WORK: P/F G.I Frame from floor till bottom of slab for Drywall construction with 48mm studs(0.55 mm thick, having one flange of 34 mm and another flange of 36 mm, made of GI steel) placed at 610 mm center to center or as/groove pattern whichever is less in 50 mm floor and ceiling channel (0.55 mm thick having equal flanges of 32 mm made of I steel) .Hardwood to be used at every skirting level.Hardwood support for Electrical Switch boxes,Ac Grill,or any other accessories,(All wooden frame work to be treated for anti termite and painted with fire retardant.). Make:India Gypsum/Lafarge/Equivalent				
3	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	22.00		-
4	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 finshed in the same finish match to main panel.	SqM	14.00		-
5	LAMINATED SKIRTING: P/F of 100mm x 12mm High Laminated skirting of approved colour/shade/design on 12mm thk comm.Ply with ABS edge band. The band to be fixed to surface with dry wall srews . Make:Greenlam-701Rising beech/Merino/Century	Rm	25.00		-
	Total-Partition & Panelling				-
B2	DOORS & HARDWARES				
	Note:Unless specified the door frame rates not be included. Rates to include door shutter, Hardwares, and fitting charges. Frame Work: Alloy / Jeb / Infra Hardware: Ozone/ Kitch / Equivalent Shutter: GreenPly / Archidply / Truwood				
1	DOOR: P/F of Single leaf Flush door shutter fixed on beech wood frame. Frame 50 x 75 mm section (seasoned ,anti termite proof,treated with fire retardant,duco painted as/app). Door Shutter- 38 mm thick solid core Block board (Knot free wooden member,aniti termite proof,teated with fire retardant) with approved laminated all both sides .Edges finished with wooden lipping match to laminate. Size:750x2100mm Make:Greenlam-701Rising beech / Merino/Century	No	1.00		-
	Total-Door				-
B3	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.				

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	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: Amf/Armstrong/Equivalent				
a	Tile: 1200x600x19	SqM	35.00		-
b	Tile: 600x600x19	SqM	-		-
	TOTAL:CEILING				-
C	FIXED STORAGES				
1	MEDICINE STORAGE: 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 prelaminate,18mm thick, back ply, auto closing hinges, individual locks, 150mm lonk 10mm dia 'H' handle, adjustable screws.adjustable levers. Make:Greenlam - 283 Sky blue / Merino / Century	SqM	24.00		-
2	MEDIUM STORAGE: P/F of prelaminate storage unit of 25mm thk prelam board top with ABS edge banding as sides of the storage as/dsgn.18mm thick prelam board hinged shutter 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. Size:1200x1800x600. Storage unit to fit in refrigerator and water dispenser Make:Unicos/Ebco,Greenlam-701 Rising beech / Merino / Century	SqM	3.00		-
3	COUNTER: P/P of Double level Counter of 750mm depth and Counter top at 1050mm 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 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.. Make: Greenlam-173 Barbie Pink, 283 Sky Blue / Merino / Century, LG Hausys-G019 Natuaraal Quartzs/ Equivalent	SqM	5.00		-
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. Make: Multi Seats/ Geeken/ Featherlite	Nos	5.00		-
5	SLOTTED ANGLE RACK:- Fabricating, supplying and placing slotted angle rack of size 900wx2400hx600deep made as per manufacturers specification.	SqM	3.00		-
	TOTAL- FIXED STORAGE				-
D	PAINTING & FINISHING				
1	ACRYLIC EMULSION PAINT - Apply 3 coats in roller mode-paint wiioth 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	76.00		-

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Sl.No.	Item	Unit	Qty	Rate	Amount
2	DUCO PAINT: P/A Duco Lacquer finish including all subsurface preparation. Basic Rate including application: Basic Rate:650/SqM	SqM	5.00		-
	Make: ICI, Nerolac, Asian, Berger				
	TOTAL-PAINTING & FINISHING				-
E	MISCELLANEOUS				
1	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	4.00		-
2	WALL GRAPHICS : 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	14.00		-
	TOTAL-MISCELLANEOUS				-
F	STEEL WORKS				
1	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		-
2	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		-
	TOTAL-STEEL WORKS				-
	TOTAL				

SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS FOR PROPOSED AMRIT PHARMACY AT LADY HARDINGE HOSPITAL, NEW DELHI					
BILL OF QUANTITIES					
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	10		
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.				
i)	2x 2.5 sqmm+ 1x 2.5 sqmm earth wire	Meter	168		
ii)	2x 6 sqmm+ 1x 6 sqmm earth wire	Meter	50		
iii)	4 x 6 sq.mm + 2 x 6 sq.mm. earth wire	Meter	20		
3	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		
4	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	2		
5	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	5		
6	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	20		
7	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	4		
8	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	8		
9	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	2		
10	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	Each	2		
11	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	50		
ii)	25mm dia PVC conduit	Metre	100		
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.					
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	0		
2	Supplying of minimum 36 watt LED recessed type (150 mm X 1200 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	8		
3	Supplying of 1200mm sweep ceiling fan 5-star rate as per BEE complete with blades, down rod, shackle insulator, canopy etc.	Each	2		
TOTAL RS.					

SUPPLY, ERECTION, TESTING AND COMMISSIONING OF ELECTRICAL & OTHER SERVICES WORKS FOR PROPOSED AMRIT PHARMACY AT LADY HARDINGE HOSPITAL, NEW DELHI					
BILL OF QUANTITIES					
SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
SUBHEAD- III: M.V. PANELS/ 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 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	30		
2	Supply and laying of under noted sizes of hume pipe NP-2 grade under the road including 1:3:6 cement concrete bed at 750-1200 depth cutting and making good the same as required as per technical specifications.				
i)	100mm dia	Metre	20		
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.				
i)	4 x 16 sq.mm	Set	2		
4	Supply and fixing of steel work in position including clamps, frame work of flats, angle iron, channel with fabrication work for providing frame for the panels etc including cutting, bending, welding, drilling bolting etc. as per design as required. One coat of primer and 2 coats of enamel paint of approved shade shall be provided.	Kg.	50		
5	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
i)	150mm wide 50mm depth 1.6 mm thickness	Metre	5		
	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	20		
	TOTAL RS.				

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SL.NO	DESCRIPTION OF ITEM	UNIT	QTY.	RATE (RS.)	AMOUNT (RS.)
SUB HEAD-VI : 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 (4 core)	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	30		
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	Providing and laying of 80mm dia medium class GI pipe including all fixing accessories concealed or surface as required.	Metre	10		
5	Supplying and fixing M.S. box with modular type telephone (RJ-11) outlet complete as required. Make: Panduit, Systimax, Belden	Each	2		
6	Supplying and fixing M.S. box with modular type data/ computer (RJ-45) outlet complete as required. Make: Panduit, Systimax, Belden	Each	5		
7	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		
8	Supply, installation, testing and commissioning of cat-6 patch cord 3 metre complete as per specifications as required.	Nos.	10		
9	Supply, installation, testing and commissioning of cat-6 patch cord 1 metre complete as per specifications as required.	Nos.	5		
10	Supply, installation, testing and commissioning of SC-SC patch cord complete as per specifications as required.	Nos.	5		
11	Supply installation testing and commissioning of 24-port managed layered 2 switch with SFP uplink as per specifications complete as required.	Nos.	1		
12	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	4		
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 TCP/IP 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					
1	Supply, installation , testing & commissioning of 2TR wall mounted split conditioning units, BEE 4 star rating including indoor and outdoor units , copper piping, drain piping, insulation, control and power cables between outdoor and indoor units, complete as required by Engineer-in Charge. Make: Voltas, Bluestar, Daikin	Set	2		
TOTAL RS.					

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	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 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	4		
	TOTAL RS.				