

Name of work: Renovation works(Civil , Electrical and services) of Room no.7, 8, 9 &10 in HINDLABS , RK Puram , New Delhi.					
Schedule of Quantities					
Item No.	Description	Unit	Quantity	Rate	Amount
				(In figure & words)*	Rs. Ps.
	PART-A - CIVIL WORKS				
A1	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead .	Sqm	16.00		
A2	Dismantling steel work in window frames, door frames and built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50metres lead.	Kg	75.00		
A3	Dismantling tile work in floors,walls and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles up to 40 mm.	Sqm	3.00		
A4	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	Sqm	5.00		
A5	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	Sqm	55.00		
A6	Cleaning of fixed tiles / granite/ marble by using stain remover / tile cleaner and clean water, using a rag or chamois-type mop rather than a sponge mop.And make the surface clean and shiny.	Sqm	235.00		
A7	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	4.25		
A8	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	Sqm	27.00		
A9	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	27.00		
A10	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm	100.00		

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A11	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete (Size and colour of Tile should be as which is fixed)	Sqm	15.00		
A12	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of	Sqm	72.00		
	the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.				
	12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.				

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A13	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. (Glazing and paneling to be paid for separately) :				
A13.1	For fixed portion: Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	75.00		
A13.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately): Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	85.00		
A14	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. With float glass panes of 5.50/6 mm thickness.	Sqm	6.50		
A15	Filling the gap in between aluminium frame & adjacent RCC/ Brick/ Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5 mm width	Metre	13.00		
A16	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete: 255 X 19 mm	Each	10		

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Item No.	Description	Unit	Quantity	Rate	Amount
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A17	Providing and fixing Zinc alloy (white powder coated) casement lock for windows	Each	10		
A18	Dismantling RCC and cutting of marble laid in cement mortar for placing laboratory sink including cutting of reinforcement stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	Sqm	1.00		
A19	Providing and fixing white vitreous china laboratory sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste and 40mm C.P. brass trap with necessary C.P. brass unions complete, including painting of fittings and brackets, cutting and making good the wall wherever required : Size 600x450x200 mm	Each	3		
A20	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.Flexible pipe 40 mm dia.	Each	3		
A21	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 and as per the direction of engineer in charge:15 mm nominal bore.	Each	3		
A22	Providing & fixing chrome plated brass battery based infrared sensor operated pillar cock, having foam flow technology and approved make as per the direction of engineer in charge. 15 mm nominal bore	Each	3		
A23	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :25 mm nominal bore	Each	1		
A24	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the wallsetc.20 mm nominal outer dia Pipes	Metre	10.00		

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Item No.	Description	Unit	Quantity	Rate	Amount
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A25	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate	Sqm	32.00		
	G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm .12.5 mm thick tapered edge gypsum moisture resistant board				
A26	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : Water thinnable cement primer	Sqm	27.00		
A27	Dismantling of laboratory sink including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	Each	3		
	PART-B- ELECTRICAL WORKS				
B1	Point wiring in PVC conduit, with Modular type switch: 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				
B1.1	Group C	Point	20		
B2	Power plug wiring in PVC conduit (2x4 sq mm) : Wiring for light/ power plug with 2x4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit along with 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required	m	150.00		

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Item No.	Description	Unit	Quantity	Rate	Amount
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B3	Circuit Sub main wiring in PVC Conduit : Wiring for circuit sub main wiring alongwith earthwire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
B3.1	2x1.5 sq mm +1x1.5 sq. mm earth wire	m	60.00		
B3.2	2x2.5 sq mm +1x 2.5 sq.mm earth wire	m	70.00		
B4	Telephone wiring in existing conduit : Supplying and drawing 2 pair 0.5 sq mm FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	m	160.00		
B5	S/F PVC conduit : Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
B5.1	20 mm	m	150.00		
B5.2	25 mm	m	120.00		
B6	S/F Metal boxes : Supplying and fixing metal box of sizes 200 mm x300 mm x 100 mm deep (Nominal size) on surface or recess with suitable size of phenolic laminated sheet cover in front including painting etc as required.	Each	2.00		
B7	S/F Modular type switch/ socket : Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc as required.				
	Telephone socket outlet	Each	5.00		
B8	S/F Modular type blanking plates : Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	30.00		
B9	S/F Modular boxes, base & cover plate : Supplying and fixing 1 or 2 module (75 mmx75 mm),GI box along with modular base, cover plate for modular switches in recess etc as required.	Each	18.00		
B10	S/F light plug point modular type accessories : 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 amps modular socket outlet and 5/6 amps modular switch, connection,painting etc as required,	Each	63.00		
B11	S/F Power plug point with modular type switch : 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 15/16& 5/6 amps modular socket outlet and 15/16 amps modular switch, connection,painting etc as required.	Each	32.00		

Schedule of Quantities					
Item No.	Description	Unit	Quantity	Rate	Amount
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B12	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent 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	6.00		
B13	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required.	m	350.00		
B14	Fixing of RJ 45 data outlet	Nos.	14.00		
B15	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
B15.1	2 + 12 way, Double door	Each	2		
B16	Supplying and fixing of following ways prewired surface/ recess mounting, vertical type, 415 volts, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 100 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's (but without MCB's and incomer) as required. Make : Legrand or equivalent				
B16.1	8 way (8 + 24)	Each	1.00		
B17	S/F 'C' series, MCB : Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
B17.1	Single pole	Each	28		
B17.2	Single pole and neutral	Each	2		
B17.3	Triple pole	Each	3		
B18	Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
B18.1	25amps	Each	2		
B19	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

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Item No.	Description	Unit	Quantity	Rate	Amount
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B19.1	63amps	Each	1		
B20	S/F SP MCB blanking plate : Supplying and fixing single pole blanking plate in the existing MCB DB complete etc as required.	Each	18.00		
B21	S/F FP MCB isolator : Supplying and fixing following rating, four pole,415 Volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
B21.1	63 amps	Each	1.00		
B22	Supplying and fixing TP sheet steel enclosure on surface/ recess along with 16/25/32amps 415 volts "C" curve TP MCB complete with connections, testing and commissioning etc. as required.	Each	2.00		
B23	S/F 20A SPN MCB industrial socket outlet : Supplying and fixing 20 amps, 240 Volts, SPN industril type, socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 amps 'C' series, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket outlet and complete with connections, testing and commissioning etc. as required.	Each	4.00		
B24	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
B24.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	30.00		
B25	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
B25.1	4 C x 16 sqmm	Each	2.00		
B25.2	4 C x 10 sqmm	Each	2.00		
B26	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium conductor power cable conforming to IS 7098 (Part 1) amended upto date.				
B26.1	4 C x 16 sqmm	m	90.00		
B26.2	4 C x 10 sqmm	m	80.00		
B27	Supply and Installation of 10 pair MDF box, back mount frame and original krone connectors with all accessories.	Each	2.00		

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B28	Supply conveyance, installation, testing and commissioning the following types of light fittings with all accessories on false ceiling, true ceiling or wall as directed and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required. All recessed type fixtures are to be supported independently with chains or GI wire anchored to the ceiling with anchoring bolt of necessary size. All loose wires above the false ceiling are to be neatly concealed by flexible conduits.				
B28.1	2 X 18W Surface mounting front opening clean room luminaire suitable for twin CFL ,powder coated CRCA sheet steel housing , prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (BAJAJ BPSF 218 C LHD or equivalent)	Nos.	3.00		
B28.2	Philips Slim type 28W T5 tube fitting	Nos.	5.00		
B28.3	2 X 36W Recess mounting front opening clean room luminaire suitable for twin CFL with SCREWLESS bottom frame,powder coated CRCA sheet steel housing , prewired complete with all necessary accessories suitable for operation on 230V, 50Hz AC supply as required (BAJAJ BPRF 236 C LHD TG SL or equivalent)	Nos.	10.00		
	DISMANTLING				
B29	Removing of existing wires/cables of size ranging from 3x1.5Sq.mm to 3x6Sq.mm including removing of conduits, saddles, all accessories and rolling and stacking in position as per the direction of engineer in charge	m	150.00		
B30	Removing the existing Ceiling fans 600mm sweep, dismantling and stacking in position as per the directions of engineer in charge.	Nos.	5.00		
B31	Removing the existing light fittings, dismantling and stacking in position as per the directions of engineer in charge.	Nos.	12.00		
B32	Removing the existing switchboxes of size ranging from 4 to 16 module including removing the switches, sockets, regulators, connections, etc and stacking in position as per the direction of engineer in charge.	Nos.	12.00		

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	PART-C - HVAC				
	AIR DISTRIBUTION				
C1	Supply, installation, testing and commissioning of factory fabricated rectangular Aluminum sheet metal ducting for Supply/return/fresh air duct/collar connecting to indoor unit as per ducting specifications and with suitable supports using MS angles, channels, rods, anchor bolts, etc to roof /truss as per IS 655 and as per specifications.				
C1.1	20 G	SQM	30		
C1.2	22 G	SQM	54		
C2	SITC of External thermal insulation on supply air ducts using min 13mm thick nitrile rubber class "O" closed cell type with antimicrobial protection as per specifications	SQM	40		
C3	Supply, installation, testing and commissioning of Acoustic duct lining using 10mm nitrile rubber insulation open cell type inside the ducts, antimicrobial protection at the outlets of all indoor units upto 4m distance from fan outlet as per spec provided.	SQM	10		
C4	Supply, installation and commissioning of underdeck insulation with 20 mm thick closed cell elastomeric Nitrile Rubber density of 40kg/m3 on ceiling with necessary adhesive, 600X600mm GI netting, fixtures, supports etc.	SQM	1		
C5	Supply, fabrication, installation, testing of flexible connections made out of fire resistant flexible double canvas sleeve.	Set	1		
C6	SITC of Fire Control Damper made of 16G GSS sheet blade and frame with 165mm casing, heavy duty interlocking blades and fully enclosed blade linkage mechanism, SS lateral seal blade seals, self lubricating sintered bronze bushes, fire rating as per UL555-1995 tested as per BS-476 part 20 with 18G extended sleeve 450mm and with fusible link, spring mechanism control panel temp sensor, smoke sensor, limit switch with lever for auto shut off in case of fire/smoke as per specifications.	SQM	1		
C7	SITC of multi blade type volume control dampers made of extruded aluminium for ducts/collars to be provided with suitable links, levers and quadrants for manual control of volume of air flow and for proper balancing of the air distributions system in main ducts, return ducts & other area as per specification.	SQM	1		
C8	SITC of Fresh air GI louvers of size 300x300 mm with wire mesh and birds screen for IDUs/AHUs as per specifications.	SQM	1		

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C9	Supply installation testing and balancing of continuous Perforated Stainless Steel Grilles for supply and return air grilles in accordance with the approved shop drawings sizes	SQM	6		
	Drain Piping				
C10	Supply and laying UPVC heavy class drain piping for IDUs for the following diameters of the pipes. The pipes shall be clamped or suspended from ceiling with proper slope and terminated at the nearest sump. The pipes shall be insulated with 6mm thick nitrile rubber and with all accessories complete.				
C10.1	25mm	m	5		
C11	Supply, Laying and Fixing of control cabling of suitable size required from the Indoor to outdoor units for all units as per specification.	m	120		
C12	DISMANTLING OF THE EXISTING UNITS				
C12.1	Dismantling and stacking in position the existing split air conditioning units (indoor and outdoor units) of rating 1TR to 23TR. Including dismantling of electrical connections, drain pipes and all associated fittings complete.	Set	5		
C12.2	Dismantling and stacking in position the existing window mounted air conditioning units of rating 1TR to 2TR. Including dismantling of electrical connections, drain pipes and all associated fittings complete.	Set	5		
	PART-D - FIRE DETECTION & ALARM SYSTEM				
D1	Supply and installation of Conventional 4 Zone Fire Alarm Panel , batteries etc. with 4 line auto dialer with recording message capacity . HONEYWELL/ RAVEL OR Equivalent - (Model - HRZ-4e/REF-RE-150-4 OR Equivalent)	Nos.	1		
D2	Supply and installation of Conventional photoelectric /Optical type smoke detectors with base. Make HONEYWELL /System Sensor OR Equivalent - (Model - 2351E OR equivalent)	Nos.	28		
D3	Supply and installation of Conventional analog Heat detectors with base. Make HONEYWELL /System Sensor OR Equivalent - (Model -4351E OR Equivalent)	Nos.	2		
D4	Supply and installation of Manual call Points with base. Make Agni/PCD OR Equivalent - (Model - AD101/MC-AB-G)	Nos.	3		

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D5	Supply and installation of Conventional Electronics Hooter cum Strobe Make HONEYWELL/System Sensor OR Equivalent - (Model - P2R OR Equivalent)	Nos.	2		
D6	Supply and installation of Response Indicator Make HONEYWELL/AGNI - (Model - AD301) or equivalent	Nos.	5		
D7	Supply and installation of 2 core 1.5Sq.mm Armoured FRLS cable including clamping the cables, providing cable terminations with cable glands, etc. complete. make Finolex, Technoflex or equivalent	m	350		
D8	TESTING & COMMISSIONING CHARGES	LS	1		
D9	Supply of CO2 type fire extinguisher of 4.5 kgs. Make SAFEX / MINIMAX / CEASEFIRE or equivalent	Nos.	3		
D10	Supply of ABC Type fire extinguisher of 5 Kgs Make SAFEX / MINIMAX / CEASEFIRE or equivalent	Nos.	2		
D11	Supply of ABC Type fire extinguisher of 2 Kgs. Make SAFEX / MINIMAX / CEASEFIRE or equivalent	Nos.	12		
D12	INSTALLATION CHARGES FOR THE ABOVE FIRE EXTINGUISHERS	Nos.	17		
	PART-E - CCTV SYSTEM				
	Supply ,Installation ,Testing & commissioning of the following items :				
E1	Indoor IR Dome camera with Verifocal lens: 1/3" CCD,530TVL, 1.0 lux,AWB / BLC / AGC , 2.8mm~10mm vari-focal lens, min 20m range, Built-in IR illumination, white color case, DC12V, PAL-CE/FCC approved., make Honeywell or equivalent	Nos.	9		
E2	Outdoor IR Bullet camera with Verifocal lens: 1/3" CCD,530TVL, 1.0 lux,AWB / BLC / AGC , 2.8mm~10mm vari-focal lens,min 20m range,Built-in IR illumination, white color case, DC12V, PAL-CE/FCC approved., make Honeywell or equivalent	Nos.	2		
E3	Power supply unit for above camera as specified by camera manufacturer -12VDC 2A	Nos.	11		
E4	Digital Video Recorder : 16-Channel Embedded HD DVR, 400fps, Real-time, with 4 TB HDD and English OSD, 230VAC, make Honeywell	Nos.	1		
E5	21" LED Color Monitors. make (LG/Samsung)		1.00		
	Cable				
E6	Supply and Laying of RG-6 Coaxial video cable with ISI marked PVC conduit including terminations with suitable BNC, etc complete. Make Technoflex/Neolex/Finolex	m	600.00		

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E7	Supply and Laying of 3-core, 1.5 sq. mm. Shielded cable in ISI marked PVC Conduit including terminations with suitable connectors, etc., complete. Make Technoflex/Neolex/Finolex	m	445.00		
E8	Whole system integration, testing & commissioning charges including demonstration & training.	LS	1.00		
	PART-F - PA SYSTEM				
	Supply ,Installation ,Testing & commissioning of the following items :				
F1	6 Watt ceiling Mount Speakers with inbuilt 100V Line matching Transformer,wide opening angle,optimized for music & speech applications make PHILIPS/Bosch/Audio track	Nos.	15		
F2	12W wall Mount Box Speakers with inbuilt 100V Line matching Transformer,wide opening angle,optimized for music & speech applications make PHILIPS/Bosch/Audio track	Nos.	2		
F3	Call Station for Announcement make PHILIPS/Bosch	No.	1		
F4	Mixer amplifier make PHILIPS/Bosch	Set	1		
F5	Supply and laying of core twin twisted 24/0.2 ATC multi strand, over all PVC sheathed speaker Armoured cable in suitable ISI PVC conduits	m	350		
F6	DVD player make PHILIPS	set	1.00		
F7	6U Wall Mountable powder coated Rack with 3x5A Power Manager, , 1 position fan, min 3 nos of shelf, Front Glass door with Lock & key	Set	1.00		
	Total amount				
* The rate / rates written in words will be taken as final.					