

**RENOVATION & MODIFICATION OF INSURANCE  
OFFICE, MS OFFICE AREA INCLUDING SUPPLYING &  
FIXING OF OFFICE FURNITURE, ELECTRICAL WORKS  
AND AIR CONDITIONING WORKS AT JIPMER,  
PUDUCHERRY**

**Volume- IV  
BILL OF QUANTITIES**

**Tender No: HLL/IDD/CHN/20-21/056  
Dated: 27<sup>th</sup> Feb 2021**



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**TENDER NO: HLL/IDD/CHN/20-21/056 DATED 27.02.2021**

**NAME OF WORK: RENOVATION & MODIFICATION OF INSURANCE OFFICE, MS OFFICE AREA INCLUDING SUPPLYING & FIXING OF OFFICE FURNITURE, ELECTRICAL WORKS AND AIR CONDITIONING WORKS AT JIPMER, PUDUCHERRY.**

S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.					
	For thickness of tiles 10 mm to 25 mm	Sqm	29.40			
2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	Cum	0.93			
3	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Cum	5.34			
4	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in					
	Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	1.96			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
5	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in super structure above plinth level up to floor V level.					
	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	45.00			
6	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	45.00			
7	15 mm cement plaster:					
	1:4 (1 cement : 4 fine sand)	Sqm	61.56			
8	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	61.56			
9	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content.					

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	61.56			
10	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour.					
	Two coats	Sqm	675.92			
11	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.					
	Granite of any colour and shade					
	Area of slab over 0.50 sqm	Sqm	34.13			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
12	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.					
	Granite work	Rmt.	56.88			
13	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).					
	Size of Tile 600x600 mm	Sqm	37.93			
14	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.					

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	All kinds of soil	Cum	0.82			
15	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level.					
	1:2:4 (1 cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 20 mm nominal size)	Cum	0.82			
16	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	Kgs	1922.16			
17	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade.					

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
18	Two or more coats on new work.	Sqm.	54.58			
19	Providing and fixing fire resistant door frame of section 50 x 60 mm on horizontal side & 35 x 60 mm on vertical sides having built in rebate made out of 1.6 mm thick GI sheet ( Zinc coating not less than 120gm/m <sup>2</sup> ) suitable for mounting 120 min Fire Rated Glazed Door Shutters. The frame shall be filled with Mineral wool Insulation having density min 96Kg/m <sup>3</sup> . The frame will have a provision of G.I. Anchor fasteners 14 nos ( 5 each on vertical style & 4 on horizontal style of size M10 x 80 ) suitable for fixing in the opening along with Factory made Template for SS Ball Bearing Hinges of Size 100x89x3mm for fixing of fire rated glazed shutter . The frame shall be finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per the directions of Engineer - in- charge . (Cost of SS ball bearing hinges is excluded).	Rmt.	13.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
20	Providing and fixing 60 mm thick glazed fire resistant door shutters of 120 min Fire Rating confirming to IS:3614 (Part II) or EN1634-1:1999, tested and certified as per laboratory approved by Engineer-in-charge, with suitable mounting on door frame, consisting of vertical styles, top rail & side rail 60 mm x 60 mm wide and bottom rail of 110 mm x 60 mm made out of 1.6mm thick G.I. sheet (zinc coating not less than 120gm/m <sup>2</sup> ) duly filled mineral wool insulation having density min 96 kg/ m <sup>3</sup> and fixing with necessary stainless steel ball bearing hinges of size 100x89x3mm of approved make, including applying a coat of approved fire resistant primer or powder coating not less than 30 micron etc all complete as per direction of Engineer-in-charge (panelling to be paid for separately).	Sqm	5.00			



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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
21	Providing and fixing non load bearing fixed frame for fire resistant glazed Partition for 120 minutes Fire Rating, made out to a profile of dimension 60mm x 70 mm of 1.6 mm thick galvanised steel sheet as per test evidence suitable for fixing fire rated glass for 120 minutes of both integrity & radiation control (EW120) & minimum 20 minutes of insulation (EI20). The profile has to be fixed to the supporting construction by means of anchor fasteners of size M10 x 80, every 150 mm from the edges and every 500 mm (approx) c/c. Linear measurement of frame shall be measured for payment. The frame shall be filled with mineral wool insulation of density min 96kg/ m <sup>3</sup> and finished with a approved fire resistant primer or Powder coating of not less than 30 micron in desired shade as per NBC 2016, IS 16231 (Part 3):2016 and directions of Engineer - in- charge.	Rmt.	2.40			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
22	Providing and fixing glazing in fire resistant door shutters, fixed panels & partitions etc., with G.I. beading made out of 1.6 mm thick G.I. sheet (zinc coating not less than 120 gm/m <sup>2</sup> ) of size 20 x 33 mm screwed with M4 x 38 mm SS screws at distance 75 mm from the edges and 150 mm c/c , including applying a coat of approved fire resistant primer/ powder coating of not less than 30 micron on G.I. beading, & special ceramic tape of 5 x 20 mm size etc complete in all respect as per NBC 2016, IS 16231 (Part 3):2016 and as per direction of Engineer-incharge with glass of required thickness having 120 minutes of fire resistance both integrity & radiation control (EW120) and minimum 20 minutes of insulation (EI20). The manufacturer have to give test report/certification of fire glass and the glass should have the stamp showing the value of E, EW & EI. The glass shall be tested in approved NABL accredited lab or by any other accreditation body which operates in accordance with ISO/IEC 17011 and accredits labs as per ISO/IEC 17025 for testing and calibration scopes shall be eligible. The maximum glazing size shall not be more than 1100x2200 mm (w x h) or 2.42 sqm.	Sqm	0.25			
23	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding andbolted with special shaped washers etc. complete.					

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	Hot finished seamless type tubes	Kg	1385.00			
24	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.					
	1.00 mm thick with zinc coating not less than 275 gm/m <sup>2</sup>	Sqm.	77.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
25	Designing, fabricating, testing, installing and fixing in position Curtain Wall with Aluminium Composite Panel Cladding, with open grooves for linear as well as curvilinear portions of the building, for all heights and all levels etc. including: (a) Structural analysis & design and preparation of shop drawings for pressure equalisation or rain screen principle as required, proper drainage of water to make it watertight including checking of all the structural and functional design. (b) Providing, fabricating and supplying and fixing panels of aluminium composite panel cladding in pan shape in metallic colour of approved shades made out of 4mm thick aluminium composite panel material consisting of 3mm thick FR grade mineral core sandwiched between two Aluminium sheets (each 0.5mm thick). The aluminium composite panel cladding sheet shall be coil coated, with Kynar 500 based PVDF / Lumiflon based fluoropolymer resin coating of approved colour and shade on face # 1 and polymer (Service) coating on face # 2 as specified using stainless steel screws, nuts, bolts, washers, cleats, weather silicone sealant, backer rods etc. (c) The fastening brackets of Aluminium alloy 6005 T5 / MS with Hot Dip Galvanised with serrations and serrated washers to arrest the wind load movement, fasteners, SS 316 Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all	Sqm.	31.80			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	complete required to perform as per pecification and drawing The item includes cost of all material & labour component, the cost of all mock ups at site, cost of all samples of the individual components for testing in an approved laboratory, field tests on the assembled working curtain wall with aluminium composite panel cladding, cleaning and protection of the curtain wall with aluminium composite panel cladding till the handing over of the building for occupation. Base frame work for ACP cladding is payable under the relevant aluminium item.s The Contractor shall provide curtain wall with aluminium composite panel cladding, having all the performance characteristics all complete , as per the Architectural drawings, as per item description, as specified, as per the approved shop drawings and as directed by the Engineer-in-Charge. However, for the purpose of payment, only the actual area on the external face of the curtain wall with Aluminum Composite Panel Cladding (including width of groove) shall be measured in sqm. up to two decimal places.					
26	Providing and fixing panic bar / latch (Double point) fitted with a single body, Trim Latch & Lock on back side of the Panic Latch of reputed brand and manufacture to be approved by the Engineer- in- charge, allcomplete.	Each	2.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
27	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 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 centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with					

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with					
	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) : 2011 (Board with BIS certification marks)	Sqm	25.00			
28	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to	Sqm	74.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mmthick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/ opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection > 85%, non- combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/ mK.					



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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
29	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 Type PVC conduit with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sqmm, FRLS PVC insulated copper conductor single core cable etc. as required.					
	Group C	Point	4.00			
30	Wiring for circuit/submain wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed medium class PVC conduit as required.					
30.1	2 x 2.5 sq.mm + 1x 2.5 sq.mm earth wire	Metre	120.00			
30.2	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Metre	120.00			
31	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.					
31.1	5/6 A switch	Each	40.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
31.2	15/16 A switch	Each	25.00			
31.3	3 pin 5/6 A socket outlet	Each	40.00			
31.4	6 pin 15/16 A socket outlet	Each	25.00			
31.5	Telephone socket outlet	Each	20.00			
32	Supplying and drawing 2 pair, 0.5 sq mm FRLS PVC insulated copper conductor, un armoured telephone cable in the existing surface/recessed steel/ PVC conduit as required.					
	2 Pair	Metre	60.00			
33	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.					
	1 run of cable	Metre	100.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
34	Supplying and fixing 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.					
	25 mm	Metre	100.00			
35	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	4.00			
36	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	10.00			
37	Providing and foxing of Main door in second class teak with door frames, shutters, grills works fitted with plain glass including the cost of brass hinges, brass tower bolts, brass handles, main door locks and finishing the entire work with french polish and melamine coating etc.as per the direction of Engineer in charge.	Job	2.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
38	Rectification and reworks to the existing door by removing the accessories, repair to the damaged portions removal of existing paint to the door frames, shutters, fixing of new grills works fitted with plain glass including the cost of brass hinges, brass tower bolts, brass handles, main door locks and finishing the entire work with french polish and melamine coating etc.as per the direction of Engineer in charge.	each	1			
39	Supplying, fabrication at site and installation of office executive table of size 1500 mm x 600 mm x 750 mm with side runners of size 900 mm x 400 mm x 750 mm with necessary drawers and accessories made of 18mm thick prelaminated decorative on both sides exterior grade 1 MDF board confirming to IS:14587 materials to be fabricated at site as per the requirement of The Client, JIPMER and maximum utilising the available space allowing free working space and movement. The rate shall include fabrication drawing, materials and fabrication of table, provision of electrical arrangements in the table by cutting the wall and floor tiles, etc., all as per the direction of Engineer in charge, but excluding the cost of electrical items.	each	2.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
40	Supplying, fabrication at site and installation of single work station of size 1200 mm x 600 mm x 750 mm with necessary drawers and accessories made of 18mm thick prelaminated decorative on both sides exterior grade 1 MDF board confirming to IS:14587 materials to be fabricated at site as per the requirement of The Client, JIPMER and maximum utilising the available space allowing free working space and movement. The rate shall include fabrication drawing, materials and fabrication of table, provision of electrical arrangements in the table by cutting the wall and floor tiles, etc., all as per the direction of Engineer in charge, but excluding the cost of electrical items.	each	16.00			

## BILL OF QUANTITIES

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
41	Supplying, fabrication at site and installation of combined four work station of size 1200 mm x 600 mm x 750 mm each with necessary drawers and accessories made of made of 18mm thick prelaminated decorative on both sides exterior grade 1 MDF board confirming to IS:14587 materils to be fabricated at site as per the requirement of The Client, JIPMER and maximam utilising the available space allowing free working space and movement. The rate shall include fabrication drawing, materials and fabrication of table, provosion of electrical arrangements in the table by cutting the wall and floor tiles, etc,. all as per the direction of Engineer in charge, but excluding the cost of electrical items.	each	2.00			
42	Supplying and installation of combined six work station of size 1200 mm x 600 mm x 750 mm each with necessary drawers and accessories made of made of 18mm thick prelaminated decorative on both sides exterior grade 1 MDF board confirming to IS:14587 materils including the cost of table, provosion of electrical arrangements by cutting the wall and floor tiles for the table as per the direction of Engineer in charge, but excluding the cost of electrical items.	Each	1.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
43	Providing and fixing vertical blinds 100mm Regular quality of MAC or equivalent make made from 100% polyester yarn coated with fade resistant polymer to ensure complete opaquity with zero light transmittance having suitable coating on exterior, including all fixtures and fittings complete in all respect as per design and instructions of the engineer-incharge	Sqm.	47.78			
44	Supply, fabrication at site & Fixing of wall mounted wardrobe of size 0.90x0.60x0.45 made of 18mm thick prelaminated decorative on both sides exterior grade 1 MDF board confirming to IS:14587 with three partitions horizontally with necessary locking arrangements & fixing in wall, etc all complete. as per the site condtion and instruction of Engineer incharge, etc,. all complete.	Each	40.00			
45	Providing and fixing of doors for all wall mount cupboards with proper hinges, locking arrangements and handles. The boards should be of made of 18mm water proof ply wood with both sides finished with sun mica sheets to desire shade and colour with proper adhesives etc. as per the instructions of the Engineer in charge.	Sqm.	66.56			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
46	Removal of existing ACC sheet structure including the cost of removal of the ACC sheets, purlin and support pipes with dismantling of the legs in civil structure and disposal of unwanted materials , stackking of the usable materials as per the directions of the Engineer in charge.	Sqm.	63.25			
47	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. Data socket (RJ-45)	Each	20.00			
48	Supply of 3W deep spot LED light including all required accessories complete. (Havells LHEEBCPFUN1W003 or equivalent)	Nos	8.00			
49	Supply, Installation, Testing, Commissioning of low noise 400mm sweep cabin fan, include (360) gyroscopic movement or adjustable wind direction, grill for protection, 3 speed control by regulator, fixing and supporting from real ceiling with GI long thread rods to required length & dia and screws/fichers and complete. (Havells swing gyro or equivalent)	Nos	10.00			



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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
50	Supply, Installation, Testing, Commissioning of 400mm sweep wall fan with Aerodynamically designed & balanced blades, High speed motor, Thermal overload protector, etc., all complete. ( Havells swing 400 or equivalent)	Nos	10.00			
51	Supplying and fixing following size/ modules, PVC box alongwith modular base & cover plate for modular switches in recess etc. as required.					
51.1	1 or 2 Module	Nos	30.00			
51.2	3 Module	Nos	40.00			
51.3	6 Module	Nos	15.00			
52	Supply, Installation, Testing, Commissioning of LED strip 22W along with drivers and all accessories, etc all complete (Havells FLEXION LED STRIP 22 W or equivalent)	Metre	30.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
53	Supply, installation, testing and commissioning of 4-way flow Chilled water Cassette Type Indoor ceiling mounted unit (on existing chiller connection) equipped with synthetic washable media pre-filter ,fan section with low noise fan /dynamically balanced blower, multi speed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cordless remote control etc., suitable for operation on single phase 230V±10%, 50Hz AC supply, complete, as required. The unit shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. The unit must include supply, installatrion, testing and commissioning including of suitable nominal sizes of hard drawn copper refrigerant piping for chiller cassette system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of suitable thickness for Suction and Liquid lines, all accessories as per specifications etc. as required (max 5 mtrs length) along with suitable valve and accessories. Along with this the system should includes suitable	Job	2.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	type drain pipe upto floor level insulated with suitable size XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of suitable thickness etc all complete. 2TR capacity					
54	Supply, installation, testing and commissioning of 2TR capacity Hi wall Chilled water Indoor unit equipped with washable filter ,fan section with low noise fan /dynamically balanced blower, multi speed motor, coil section with DX Copper coil, electronic expansion valve, outer cabinet, drain pump, grill, necessary supports, vibration isolation, cordless remote control etc., suitable for operation on single phase 230V±10%, 50Hz AC supply,	Job	1.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
	complete, as required. The unit shall have automatic force shutdown provision in case of fire on receiving signal from BMS System. The cooling capacity of indoor unit will be at air inlet conditions of 27 Degree C DB and 19 Degree C WB temperature. The unit must include supply, installtrion, testing and commissioning of suitable nominal sizes of hard drawn copper refrigerant piping for chiller hi-wall system, complete with fittings, with suitable adjustable ring type hanger supports, jointing/brazing including accessories, insulated with XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of suitable thickness for Suction and Liquid lines, all accessories as per specifications etc. as required (max 5 mtrs length) along with suitable valve and accessories. Along with this the system should include supply, installtrion, testing and commissioning of suitable type drain pipe upto floor level insulated with suitable size XPLE Class-O tubular insulation/with Class-O closed cell elastometric nitrile rubber tubular sleeves sections of suitable thickness etc all complete.					
55	Supply Installation of 3m HDMI Cable	Each	1.00			
56	SITC of motorized projector screen 8feetx6feet (84 inch) with all necessary accessories	Each	1.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
57	SITC of XGA 3 LCD projector with 4000lumens, including all accessories complete	Each	1.00			
58	Supply, Installation of AV face plate with HDMI & VGA provision	Nos	1.00			
59	Supply, Installation of casing capping with necessary supports, etc all complete	Metre	150.00			
60	Supplying and installation of audio presentation and composing equipment Portable PA system make AHUJA WP 220.	Nos	2.00			

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S. No	Description of work	Unit	Qty	Rate in figs in Rs.	Rate in words In Rupees	Amount in figs In Rs.
Total Amount						
Add GST 12%						
Total Amount incl. of GST in Figures						
Total amount in words : Rupees						

**END OF VOLUME - IV**