

**RENOVATION AND MODIFICATION OF
NIGHTINGALE THEATER AND REDDY THEATER
AT OLD OPD BLOCK, JIPMER, PUDUCHERRY**

**Volume- IV
BILL OF QUANTITIES**

**Tender No: HLL/IDD/CHN/20-21/047
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BILL OF QUANTITIES**TENDER NO: HLL/IDD/CHN/20-21/047 DATED 09.06.2020****PART – A****RENOVATION AND MODIFICATION OF NIGHTINGALE THEATER AT OLD OPD BLOCK, JIPMER, PUDUCHERRY**

S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
Civil works							
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 Metres lead.	Sqm	91.50				
1.1	For thickness of tiles 10 mm to 25 mm						
2	Cutting holes up to 30x30 cm in walls including making good the same:	Each	6.00				
2.1	With common burnt clay F.P.S. (non modular) bricks						
3	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	16.1				
4	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	Cum	32.43				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	initial lead, for all leads including all lifts involved.						
5	Half brick masonry 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.	Sqm	16.48				
5.1	Cement mortar 1:3 (1 cement :3 coarse sand)						
6	Extra for providing and placing in position 2 Each 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	16.48				
7	15 mm cement plaster:	Sqm	67.00				
7.1	1:4 (1 cement : 4 fine sand)						
8	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.	Sqm	115.04				

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8.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre						
9	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.	Sqm	115.04				
9.1	Two coats						
10	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement	Sqm	203.33				

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	or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of Eaching of steps etc. complete.						
11	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	94				
12	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).	Sqm	50.40				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
12.1	Size of Tile 600x600 mm						
13	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.	Sqm	17.38				
13.1	8.2.2 Granite of any colour and shade						
	Area of slab over 0.50 Sqm						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
14	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick	Sqm	3.88				
14.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type						
15	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.	Metre	99.00				
15.1	Upto 5mm depth and 5 mm width						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
16	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.	Each	2.00				
16.1	65 mm						
17	Providing and fixing bright finished brass handles with screws etc. complete	Each	4.00				
17.1	100 mm						
18	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete	Each	10.00				
18.1	100x85x5.5 mm (heavy type)						
19	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete	Each	4.00				
19.1	100 x 10 mm						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
20	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).	Cum	0.21				
20.1	Second class teak wood						
21	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of	Sqm	286.85				

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	work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in-charge. The elevational area of the scaffolding shall be measured for payment purpose. The payment will be made once irrespective of duration of scaffolding.						
22	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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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 25mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	edges of the board with recommended jointing compound , jointing tapes , finishing with 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 :						
22.1	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	42.80				
23	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 inter locking						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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 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 mm thick densified edges						

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	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.						
23.1	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	Sqm	41.50				

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	(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.						
24	Designing, fabricating, testing, installing and fixing in position CurtainWall 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	Sqm	17.85				

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	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 complete required to perform as per specification 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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	<p>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.</p>						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
29	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 walls etc	Metre	38.00				
29.1	20 mm nominal bore						
30	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)	Each	1.00				
30.1	20 mm nominal bore						
31	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931	Each	1.00				
31.1	15mm nominal bore						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
32	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod	Metre	8.40				
33	Providing and fixing of approved make uPVC floor trap size of 100x75mm, including necessary 1:2:4 PCC packing allround the floor drop, making and grouting the joints and necessary testing, all complete as per specifications and as directed by the Engineer.	Each	1.00				
34	Providing and fixing of uPVC 6 kg/cm ² pipes embedded in floors/walls conforming to IS 4985 : 2000 of approved make including necessary solvent weldable fittings of approved make including trenching, cutting and making good masonry walls and floors wherever necessary required, testing, all complete as per specifications and as directed by the Engineer.						
34.1	75 mm diameter	Metre	25.00				

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34.2	110 mm diameter	Metre	46.00				
35	Providing and Fixing Acoustical wall panel of approved make wall laminated panelling - slat system finished floor level to till equired height/false ceiling system to be as per approved sample. Core variants - Pine wood EI fibreboard, Fire - Class 1&P,Acousticts -NRC unto 0.75,Climate - (OCR RH-5, 70, light reflectance-75% (bEach haya), Green (RC% - 25,Hygiene (VoC, Clean room) - Low, class1,Strength, Load capacity (kg)ball impact.	Sqm	35.94				
36	Providing and Fixing Acoustical wall panel of approved make stretch NRC wall fabric system by using FR grade fabric size1200mm width, rigid vinyl stretch traks half wrap / full wrap 15mm (FSIS) strand board , synth PF infll with requisite accessories and tools.to be as per approved sample. Core - Pine wood fibre & polyfibre,Fire - Class	Sqm	48.30				

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	1,Acoustictics -NRC upto 0.90,light reflectance - colour dependent, Green (RC% - 25,Hygiene (VoC, Clean room) - Low, class1.						
37	Providing and fixing of approved color and quality window curtains with suitable aluminum pc rail/pipe, sliding rings,supporting rods, hang rods/clamps with fastners, required folding, and complete.	Sqm	21.84				
38	Providing and laying of water proof colour coolant tiles in roofs & balconies with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).	Sqm	149.38				
Electrical works							
1	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 Sqmm FRLS PVC insulated copper conductor single core cable in surface/recessed medium Type PVC conduit with modular switch, modular	Point	36.00				

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	plate, suitable GI box and earthing the point with 1.5 Sqmm, FRLS PVC insulated copper conductor single core cable etc. as required.						
1.1	Group C						
2	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 PVC conduit as required.						
2.1	2 x 2.5 Sqmm + 1x 2.5 Sqmm earth wire	Rmt	200.00				
2.2	2 x 4 Sqmm +1x 4 Sqmm earth wire	Rmt	130.00				
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
3.1	5/6 A switch	Each	20.00				

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3.2	15/16 A switch	Each	8.00				
3.3	3 pin 5/6 A socket outlet	Each	20.00				
3.4	6 pin 15/16 A socket outlet	Each	8.00				
3.5	Telephone socket outlet	Each	1.00				
4	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						
4.1	2 Pair	Metre	150.00				
5	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.						
5.1	25 mm	Metre	150.00				
5.2	32 mm	Metre	100.00				

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6	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	15.00				
7	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required						
7.1	1 or 2 Module (75 mmX75 mm)	Each	3.00				
7.2	3 Module (100 mmX75 mm)	Each	10.00				
7.3	6 Module (200 mmX75 mm)	Each	10.00				
8	Supplying and installing following size of perforated painted with powder coating 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.						
8.1	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	30.00				

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9	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.	Each	4.00				
10	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	4.00				
11	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.						
11.1	1 run of cable	Metre	150.00				
12	Installation, testing and commissioning of pre-wired, fluorescent fitting I compact fluorescent fitting of all types,	Each	14.00				

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	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.						
13	Supplying, laying, fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' applied by suitable adhesive, as per specifications and as required complete in all respect.						
13.1	19 mm	Sqm	60.00				
14	Providing of 3 Core unarmoured flexible cable connecting from AC to Metal clad socket exceeding more than 0.5 Metre	Metre	10.00				
15	Supply of 600 X 600 mm recess mounted Square LED 36 W down light in die-cast aluminium housing including high efficiency diffuser provides soft glare free light, driver etc including all required mounting accessories complete. (Crompton Model No : LCPL-36-CDL (2x2) or	Each	10.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	equivalent as per approved make)						
16	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
16.1	Data socket (RJ-45)	Each	2.00				
17	Supply, installing, testing & commissioning of approved make EPSON (EB-535W) WXGA (3400 lm), RGB liquid crystal shutter projection system (3LCD), HDMI, VGA Video In, LAN , Monitor Out, USB Viewer, USB Display, Wireless Ready all complete with mounting accessories or equivalent with same specification as per approved make	Each	1.00				
18	Supply, Installation, Testing & Commissioning of Sennheiser make(XSW2835) wireless hand micro phone	Each	2.00				
19	Supply, Installation, Testing & Commissioning of Sennheiser	Each	2.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	make(XSW2NE2) wireless collar micro phone						
20	Supply, Installation, Testing & Commissioning of JBL make (LIBRA) 250 W 6 Channel Amplifier with inbuilt-mixer	Each	1.00				
21	Supply of 12w round ceiling mount LED light	Each	4.00				
22	Supply, Installation, Testing & Commissioning of 65 inch SONY 4kLED TV(KD-65X7500F) or equivalent	Each	1.00				
23	Supply, Installation, Testing & Commissioning of GLOBUS – GEL203 Digital Podium Fully equipped	Each	1.00				
24	Supply and Laying of 15 Core VGA Cable 15 Meters	Each	2.00				
25	Supply and Laying of 15 Core VGA Cable 20 Meters	Each	1.00				
26	Supply and Laying of HDMI Cable 15 Meters	Each	2.00				
27	Supply and Laying of HDMI Cable 20 Meters	Each	1.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
28	8' X 6' Sync Motor Screen with remote	Each	1.00				
29	Supply, installing, testing & commissioning of 6 watts ceiling mounted type speakers including necessary ceiling support system, connectors & installation hardwares.	Each	15.00				
30	Supply, installation, testing & commissioning of MP3 player with facility of playing back ground music from compact disc & USB device.	Each	1.00				
31	Supply, installation, testing & commissioning of floor mounted 17U rack including cable manager, power supply units, cooling fan, etc.	Each	1.00				
32	Supply laying and termination of 2 Core x 1.5 Sqmm cable, Un armoured FRLS Twin Twisted PVC Insulated copper cable along with all accessories. Cable shall be terminated in devices and control panel by using properly sized cable gland & locknut. Cable shall be installed on wall/slab by using GI saddles at regular interval as per the specifications.	Metre	200.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
33	Supply and fixing of ISI marked (IS:15683) Fire Extinguisher, Carbon-di-oxide type capacity 4.5 Kg. Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 filled to a filling rate of not more than 0.667 and wall suspension bracket and complete along with signage	Each	1.00				
34	Supply and fixing of ABC (Powder Type) Fire Extinguisher. In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged with ABC powder (Mono Ammonium Phosphate) pressured by Nitrogen complete in all respects including wall suspension bracket and conforming to IS:15683 4 Kg with pressure gauge squeeze grip type along with signage	Each	1.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
35	Supply, Installation, Testing, Commissioning of 4 way cassette type (non inverter model) with cordless remote control with inbuilt drain pump, along with suitable outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, upto 4 m distance refrigerant copper piping with 13mm nitrile rubber insulation, comprising of 1" dia drain PVC pipe with nitrile insulation 4m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit 4m distance, outdoor unit MS stand, etc complete as required. Heat exchanger should be of copper						
35.1	2.00 TR 3 star rated as per BEE	Each	4.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
36	Supplying and fixing of following sizes of medium class PVC drain pipe of suitable size along with 13 mm nitrile insulation, including all accessories for fixing in surface/recess, cutting the wall and making good the same in case of recessed conduit as required.	Metre	65.00				
37	Corecutting of 75mm dia to the existing slab for taking the refrigerant pipe to the over head terrace and closing with concrete with water treatment mixures etc. complete	Each	4.00				
38	Supply, installation, testing and commissioning of suitable copper refrigerant piping additional length with 13 mm nitrile rubber insulation & suitable size electrical cabling interconnecting the condensing unit to evaporating unit for Cassette units beyond 4m as per site condition with all accessories complete.	Metre	80.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
39	Supply of 3W deep spot LED light including all required accessories complete. (Havells LHEEBCPFUN1W003 or equivalent)	Each	2.00				
40	Supply & Installation of 400 mm sweep Wall Fan. (Havells DZIRE 400 or equivalent)	Each	10.00				
41	Supply, Installation, Testing, Commissioning of LED strip 22W along with all accessories complete (Havells FLEXION LED STRIP 22 W or equivalent)	Metre	50.00				
				Total Amount			
				Add GST 12%			
				PART-A Total Amount incl. of GST in Figures			
				PART-A Total amount in words : Rupees			

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
Civil Works							
1	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 Metres lead.						
1.1	For thickness of tiles 10 mm to 25 mm	Sqm	91.50				
2	Cutting holes up to 30x30 cm in walls including making good the same:						
2.1	With common burnt clay F.P.S. (non modular) bricks	Each	6.00				
3	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	16.1				
4	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting,	Cum	32.43				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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.						
5	Half brick masonry 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.						
5.1	Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	16.48				
6	Extra for providing and placing in position 2 Each 6mm dia. M.S. bars at every third course of half brick masonry.	Sqm	16.48				
7	15 mm cement plaster:						
7.1	1:4 (1 cement : 4 fine sand)	Sqm	67.00				
8	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 works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
8.1	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sqm	115.04				
9	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.						
9.1	Two coats	Sqm	115.04				
10	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacturer's specifications. This includes cost of	Sqm	203.33				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	cement slurry, but excluding the cost of Eaching of steps etc. complete.						
11	Extra for providing and mixing water proofing material in cement concrete work in doses by weight of cement as per manufacturer's specification.	per 50 kg cement	94				
12	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).						
12.1	Size of Tile 600x600 mm	Sqm	61.20				
13	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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.						
13.1	8.2.2 Granite of any colour and shade						
	Area of slab over 0.50 Sqm	Sqm	17.38				
14	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
14.1	Decorative plywood both side decorative veneer (Type - I) conforming to IS 1328 BWR type	Sqm	3.88				
15	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.						
15.1	Upto 5mm depth and 5 mm width	Metre	99.00				
16	Providing and fixing special quality bright finished brass cupboard or ward robe locks with four levers of approved quality including necessary screws etc. complete.						
16.1	65 mm	Each	2.00				
17	Providing and fixing bright finished brass handles with screws etc. complete						
17.1	100 mm	Each	4.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
18	Providing and fixing bright finished brass butt hinges with necessary screws etc. complete						
18.1	100x85x5.5 mm (heavy type)	Each	10.00				
19	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete						
19.1	100 x 10 mm	Each	4.00				
20	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).						
20.1	Second class teak wood	Cum	0.21				
21	Providing and fixing double scaffolding system (cup lock type) on the exterior side, up to seven story height made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup &	Sqm	286.85				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineerin- charge .The elevational area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.						
22	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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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 25mm 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 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 :						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
22.1	12.5 mm thick tapered edge gypsum moisture resistant board	Sqm	42.80				
23	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 inter locking 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 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,						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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 mm thick 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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	directed by Engineer-in-Charge.						
23.1	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.	Sqm	41.50				
24	Designing, fabricating, testing, installing and fixing in position CurtainWall 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	Sqm	17.85				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	<p>Pins and anchor bolts of approved make in SS 316, Nylon separators to prevent bi-metallic contacts all complete required to perform as per specification 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 items 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</p>						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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.						
25	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	1.00				
26	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require						
26.1	White Vitreous China Wash basin size 550x400 mm with a pair of 15 mm C.P. brass pillar taps	Each	1.00				
27	Providing and fixing P.V.C. waste pipe for sink or wash basin including						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	P.V.C. waste fittings complete.						
27.1	Flexible pipe , 32 mm dia	Each	1.00				
28	Providing and fixing uplasticised PVC connection pipe with brass unions						
28.1	45 Cms. Length						
28.1.1	20 mm nominal bore	Each	1.00				
29	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 walls etc						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
29.1	20 mm nominal bore	Metre	38.00				
30	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end)						
30.1	20 mm nominal bore	Each	1.00				
31	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						
31.1	15mm nominal bore	Each	1.00				
32	Providing and fixing aluminium tee channels (heavy duty) with rollers & stop end in pelmets as curtain rod	Metre	8.40				
33	Providing and fixing of approved make uPVC floor trap size of 100x75mm, including necessary 1:2:4 PCC packing allround the floor drop, making and grouting the joints and necessary testing, all complete as per specifications and as directed by the Engineer.	Each	1.00				

BILL OF QUANTITIES**TENDER NO: HLL/IDD/CHN/20-21/047 DATED 09.06.2020****PART – B****RENOVATION AND MODIFICATION OF REDDY THEATER AT OLD OPD BLOCK, JIPMER, PUDUCHERRY**

S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
34	Providing and fixing of uPVC 6 kg/cm ² pipes embedded in floors/walls conforming to IS 4985 : 2000 of approved make including necessary solvent weldable fittings of approved make including trenching, cutting and making good masonry walls and floors wherever necessary required, testing, all complete as per specifications and as directed by the Engineer.						
34.1	75 mm diameter	Metre	25.00				
34.2	110 mm diameter	Metre	46.00				
35	Providing and Fixing Acoustical wall panel of approved make wall laminated panelling - slat system finished floor level to till equired height/false ceiling system to be as per approved sample. Core variants - Pine wood EI fibreboard, Fire - Class 1&P,Acousticts -NRC unto 0.75,Climate - (OCR RH-5, 70, light reflectance-75% (bEach haya), Green	Sqm	35.94				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	(RC% - 25,Hygiene (VoC, Clean room) - Low, class1,Strength, Load capacity (kg)ball impact.						
36	Providing and Fixing Acoustical wall panel of approved make stretch NRC wall fabric system by using FR grade fabric size1200mm width, rigid vinyl stretch traks half wrap / full wrap 15mm (FSIS) strand board , synth PF infll with requisite accessories and tools.to be as per approved sample. Core - Pine wood fibre & polyfibre,Fire - Class 1,Acousticts -NRC upto 0.90,light reflectance - colour dependent, Green (RC% - 25,Hygiene (VoC, Clean room) - Low, class1.	Sqm	48.30				
37	Providing and fixing of approved color and quality window curtains with suitable aluminum pc rail/pipe, sliding rings,supporting rods, hang rods/clamps with fastners, required folding, and complete.	Sqm	21.84				
38	Providing and laying of water proof colur coolant tiles in roofs & balconies with neat cement slurry	Sqm	149.38				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).						
39	Cutting & Welding with suitable butterfly valve in the existing chiller pipe line and making good, etc, all complete	Job	2.00				
Electrical works							
1	Wiring for light point / fan point / exhaust fan point / call bell point with 1.5 Sqmm 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.						
1.1	Group C	Point	36.00				
2	Wiring for circuit/submain wiring along with earth wire with the						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed PVC conduit as required.						
2.1	2 x 2.5 Sqmm + 1x 2.5 Sqmm earth wire	Rmt	200.00				
2.2	2 x 4 Sqmm + 1x 4 Sqmm earth wire	Rmt	130.00				
2.3	4 x 10 Sqmm + 2 x 6 Sqmm earth wire	Rmt	250.00				
2.4	4 x 16 Sqmm + 2 x 6 Sqmm earth wire	Rmt	500.00				
3	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
3.1	5/6 A switch	Each	20.00				
3.2	15/16 A switch	Each	8.00				
3.3	3 pin 5/6 A socket outlet	Each	20.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
3.4	6 pin 15/16 A socket outlet	Each	8.00				
3.5	Telephone socket outlet	Each	1.00				
4	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						
4.1	2 Pair	Metre	150.00				
5	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.						
5.1	25 mm	Metre	150.00				
5.2	32 mm	Metre	100.00				
6	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	Each	15.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
7	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required						
7.1	1 or 2 Module (75 mmX75 mm)	Each	3.00				
7.2	3 Module (100 mmX75 mm)	Each	10.00				
7.3	6 Module (200 mmX75 mm)	Each	10.00				
8	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, 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)						
8.1	16 way, Double door	Each	1.00				
9	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	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)						
9.1	8 way (4 + 24), Double door	Each	1.00				
10	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)						
10.1	12 way (4 + 36), Double door	Each	1.00				
11	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, “C” curve, miniature circuit breaker suitable for inductive load of following poles in						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	the existing MCB DB complete with connections, testing and commissioning etc. as required.						
11.1	Single pole	Each	74.00				
11.2	Single pole with neutral	Each	1.00				
12	Supplying and fixing following rating, four pole, 415 V, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
12.1	63 Amp	Each	2.00				
13	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.						
13.1	25 A	Each	1.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
13.2	63 A	Each	6.00				
14	Supplying and fixing following rating, four pole, (three phase and neutral), 415 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required						
14.1	63 Amp	Each	2.00				
15	Supplying and installing following size of perforated painted with powder coating 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.						
15.1	150 mm width X 50 mm depth X 1.6 mm thickness	Metre	30.00				
16	Supplying and fixing DP sheet steel enclosure on surface/ recess along	Each	4.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required.						
17	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	4.00				
18	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required.						
18.1	1 run of cable	Metre	150.00				
19	Installation, testing and commissioning of pre-wired, fluorescent fitting I compact fluorescent fitting of all types, complete with all accessories and tube/lamp etc. directly on ceiling/	Each	14.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.						
20	Supplying, laying, fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' applied by suitable adhesive, as per specifications and as required complete in all respect.						
20.1	19 mm	Sqm	60.00				
21	Providing of 3 Core unarmoured flexible cable connecting from AC to Metal clad socket exceeding more than 0.5 Metre	Metre	10.00				
22	Supply of 600 X 600 mm recess mounted Square LED 36 W down light in die-cast aluminium housing including high efficiency diffuser provides soft glare free light, driver etc including all required mounting accessories complete. (Crompton Model No : LCPL-36-CDL (2x2) or equivalent as per approved make)	Each	10.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
23	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.						
23.1	Data socket (RJ-45)	Each	2.00				
24	Supply, installing, testing & commissioning of approved make EPSON (EB-535W) WXGA (3400 lm), RGB liquid crystal shutter projection system (3LCD), HDMI, VGA Video In, LAN , Monitor Out, USB Viewer, USB Display, Wireless Ready all complete with mounting accessories or equivalent with same specification as per approved make	Each	1.00				
25	Supply, Installation, Testing & Commissioning of Sennheiser make(XSW2835) wireless hand micro phone	Each	2.00				
26	Supply, Installation, Testing & Commissioning of Sennheiser make(XSW2NE2) wireless collar micro phone	Each	2.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
27	Supply, Installation, Testing & Commissioning of JBL make (LIBRA) 250 W 6 Channel Amplifier with inbuilt-mixer	Each	1.00				
28	Supply of 12w round ceiling mount LED light	Each	4.00				
29	Supply, Installation, Testing & Commissioning of 65 inch SONY 4kLED TV(KD-65X7500F) or equivalent	Each	1.00				
30	Supply, Installation, Testing & Commissioning of GLOBUS – GEL203 Digital Podium Fully equipped	Each	1.00				
31	Supply and Laying of 15 Core VGA Cable 15 Meters	Each	2.00				
32	Supply and Laying of 15 Core VGA Cable 20 Meters	Each	1.00				
33	Supply and Laying of HDMI Cable 15 Meters	Each	2.00				
34	Supply and Laying of HDMI Cable 20 Meters	Each	1.00				
35	8' X 6' Sync Motor Screen with remote	Each	1.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
36	Supply, installing, testing & commissioning of 6 watts ceiling mounted type speakers including necessary ceiling support system, connectors & installation hardwares.	Each	15.00				
37	Supply, installation, testing & commissioning of MP3 player with facility of playing back ground music from compact disc & USB device.	Each	1.00				
38	Supply, installation, testing & commissioning of floor mounted 17U rack including cable manager, power supply units, cooling fan, etc.	Each	1.00				
39	Supply laying and termination of 2 Core x 1.5 Sqmm cable, Un armoured FRLS Twin Twisted PVC Insulated copper cable along with all accessories. Cable shall be terminated in devices and control panel by using properly sized cable gland & locknut. Cable shall be installed on wall/slab by using GI saddles at regular interval as per the specifications.	Metre	200.00				
40	Supply and fixing of ISI marked (IS:15683) Fire Extinguisher, Carbon-	Each	1.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	di-oxide type capacity 4.5 Kg. Flat base including valve, discharge hose of not less than 10 mm dia, 1M long and complete in all respects including initial fill with CO2 gas conforming to IS:307-1966 filled to a filling rate of not more than 0.667 and wall suspension bracket and complete along with signage						
41	Supply and fixing of ABC (Powder Type) Fire Extinguisher. In HP Mild Steel Cylinders ISI marked fitted with pressure indicating gauge, internal tube, squeeze lever type valve fully charged with ABC powder (Mono Ammonium Phosphate) pressured by Nitrogen complete in all respects including wall suspension bracket and conforming to IS:15683 4 Kg with pressure gauge squeeze grip type along with signage	Each	1.00				
42	Supply, Installation, Testing, Commissioning of 4 way cassette type (non inverter model) with cordless remote control with inbuild drain pump, along with suitable						

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
	outdoor condensing unit comprising of energy efficient suitable rotary compressor for operation on single phase, 230 V, 50Hz supply, upto 4 m distance refrigerant copper piping with 13mm nitrile rubber insulation, comprising of 1" dia drain PVC pipe with nitrile insulation 4m, canvas connections, full electrical cabling from power plug near indoor unit and to outdoor unit 4m distance, outdoor unit MS stand, etc complete as required. Heat exchanger should be of copper						
42.1	2.00 TR 3 star rated as per BEE	Each	4.00				
43	Supplying and fixing of following sizes of medium class PVC drain pipe of suitable size along with 13 mm nitrile insulation, including all accessories for fixing in surface/recess, cutting the wall and making good the same in case of recessed conduit as required.	Metre	65.00				

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S. No	Description of works	Unit	Qty	Rate in figs in Rs.	Rate in words	In Rupees	Amount in figs In Rs.
44	Core cutting of 75mm dia to the existing slab for taking the refrigerant pipe to the overhead terrace and closing with concrete with water treatment mixtures etc. complete	Each	4.00				
45	Supply, installation, testing and commissioning of suitable copper refrigerant piping additional length with 13 mm nitrile rubber insulation & suitable size electrical cabling interconnecting the condensing unit to evaporating unit for Cassette units beyond 4m as per site condition with all accessories complete.	Metre	80.00				
46	Supply of 3W deep spot LED light including all required accessories complete. (Havells LHEEBCPFUN1W003 or equivalent)	Each	2.00				
47	Supply & Installation of 400 mm sweep Wall Fan. (Havells DZIRE 400 or equivalent)	Each	10.00				
48	Supply, Installation, Testing, Commissioning of LED strip 22W along with all accessories complete (Havells FLEXION LED STRIP 22 W or equivalent)	Metre	50.00				

BILL OF QUANTITIES

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PART – B

RENOVATION AND MODIFICATION OF REDDY THEATER AT OLD OPD BLOCK, JIPMER, PUDUCHERRY

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

**RENOVATION AND MODIFICATION OF NIGHTINGALE THEATER AND REDDY THEATER AT OLD OPD BLOCK, JIPMER,
PUDUCHERRY**

TENDER NO: HLL/IDD/CHN/20-21/047 DATED 09.06.2020

ABSTRACT OF BILL OF QUANTITIES

S No.	Description of Work Amount in	Amount in Figures	Amount in words
1	PART- (A) : Renovation and Modification of Nightingale Theatre at Old OPD Block, JIPMER, Puducherry		
2	PART- (B) : Renovation and Modification of Reddy Theatre at Old OPD Block, JIPMER, Puducherry		
	Total inclusive of all taxes (A+B)		

END OF VOLUME - IV