

**CORRIGENDUM - I****COMPOSITE WORKS FOR SETTING UP NEW OFFICE AT WORLD TRADE
CENTRE, NAUROJI NAGAR****Date: 08.10.2024****TENDER DOCUMENT NO. IGL/ET2/CP/CC18165**

S. No.	Description	Tender Page No.	Clause/ Para/ Section	Amendment/Addition/Modification/Deletion	
1	Availability of tender document on website(s)	07 of 88	Clause 5.0 of IFB	Amendment	From 17.09.2024 to 15.10.2024
2	Bid submission due date and time	07 of 88	Clause 5.0 of IFB	Amendment	15.10.2024 till 1430 hrs IST
3	Techno-commercial bid opening date and time	07 of 88	Clause 5.0 of IFB	Amendment	15.10.2024 at 1500 hrs IST
4	Schedule of Rates (SOR)		Item no. 482 of SOR	Modification	UOM -Existing Qty. - Revised Qty. - Existing Unit Rates- Revised Unit rates Nos. - 300 - 1 - Rs.135 - Rs.40,500 Revised Schedule of Rates (SOR) is attached with this corrigendum Excel Copy of SOR separately uploaded in bid document section.

IGL Offered Rates

SCHEDULE OF RATES (SOR)

TENDER NO. IGL/ET/2/CP/CC18165



COMPOSITE WORKS FOR SETTING UP NEW OFFICE AT WORLD TRADE CENTRE, NAUROJI NAGAR

S. No.	Image for Reference	Brief description	UoM	Quantities	Unit rates excl. of taxes (in Rs.)	UNIT RATES AFTER PERCENTAGE QUOTED BELOW/AT PAR/ ABOVE (excl. GST - Rs.)	Total Amount excl. of taxes
A. CIVIL & INTERIOR WORKS							
A.1 DEMOLITION & DISMANTLING							
1		Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size).	CuM	1	9,750.42	Not Quoted	Not Quoted
2		Centering and shuttering including strutting, propping etc. and removal of form for all heights : Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	10	624.07	Not Quoted	Not Quoted
3		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.	Kg	20	84.45	Not Quoted	Not Quoted
4		Thermo-Mechanically Treated bars of grade Fe-500 D or more.	Kg	20	84.45	Not Quoted	Not Quoted
5		Dismantling stone slab flooring laid in cement mortar including stacking of serviceable materials and disposal of unserviceable material within 50 metres lead. Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhat, architrave, holdfasts etc. complete and stacking within 50 metres lead : 15.12.2 Of area beyond 3 sq. metres	each	5	426.06	Not Quoted	Not Quoted
A.2 MASONARY & PLASTER WORKS							
6		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. Cement mortar 1:4 (1 cement : 4 coarse sand)	SQM	100.00	952.37	Not Quoted	Not Quoted
7		Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	SQM	100.00	88.81	Not Quoted	Not Quoted
8		Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	4	7,918.94	Not Quoted	Not Quoted
9		Plaster on brick wall 15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement : 4 fine sand)	SQM	100	338.52	Not Quoted	Not Quoted
10		12 mm cement plaster of mix 1:4 (1 cement : 4 coarse sand)	SQM	110.00	302.84	Not Quoted	Not Quoted
11		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	CuM	75	5,772.88	Not Quoted	Not Quoted
12		Water proofing Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of: (i) 1st course of applying cement slurry @ 4.4 kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. (ii) 11nd course of 20 mm cement plaster 1:3 (1 cement : 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. (iii) 11nd course of applying bitumen or residual bitumen applied hot at 1.7 kg per sqm of area. (iv) 1Vth course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 kg/ sqm).	Sqm	45.53	652.20	Not Quoted	Not Quoted
A.3 FLOORING							
FLOOR SCREEDING							
13		Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size). 40 mm thick with 20 mm nominal size stone aggregate	Sqm	1315.86	520,5084746	Not Quoted	Not Quoted
ITALIAN MARBLE							
14		Providing and laying machine cut, mirror polished, Italian Marble stone flooring laid in required pattern in linear portion of the building all complete as per architectural drawings, with 18 mm thick stone slab laid over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with white cement slurry @ 4.4 kg/sqm including pointing with white cement slurry admixed with pigment to match the marble shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge.	SQM	889.55	5596.06	Not Quoted	Not Quoted
15		18 mm thick Italian Marble stone slab, Perla, Rosso verona, Fire Red or Dark Emperor etc. (base rate Rs 3200 per sq.mts as DSR 2023)	Sqm	939.55	4573.43	Not Quoted	Not Quoted
CARPET FLOORING							
16		Non Woven Carpet Tiles Collection : Simply by Nature/ Brush works - Providing and laying Carpet tiles of Yarn type Eco. Solution Q9 Nylon (Nylon 6) only. Multi-Level Pattern Loop, manufactured using 100% solution dyeing process. Slaw Carpet with Rubberised Cushion backing as per details given below. The carpet shall have minimum production yarn weight equivalent in range of 16 Oz to 18 Oz per square yard having tufted yarn weight of 542.5 gsm/sqm or more . Tiles of Size 61 cm x 61 cm /23 cm x 91 cm . The carpet should carry a warranty not less than 15 years from the manufacturer and supplier of carpets. The carpet shall have a pile height ranging from 2.5 mm + / - 0.5mm and total thickness of the carpet tile shall also range from 5.6 mm + / - 0.5mm. Radiant Panel class I rated (ASTM E648), NBS smoke < 450, Pilo test -Passed, Anti Static Property less Than 3.5 kv, Texture Appearance Retention Rating of 3.5 for Severe Use, Anti Microbial Treatment-Passes (AATCC-174), CRI Green Label Plus is certified for indoor air quality, including Fixing/ installation with Low/Zero VOC content Adhesive. Impact Sound (ISO 10140-3) 20 dB & Sound absorption (ISO 354) 0.2 Class D. Mandatory Environmental Certifications- Cradle to Cradle Silver Certified standard Version 4.0 +Declare LBC Compliant + LEED V4 compliance+ EPD +HPD+ NFS 140 Gold+ CRI Green Label Plus+ green lead contribution credit. Product to have recycled and Recyclable content. The product has a lifetime commercial warranty of 15 years and also has a Global Reclamation policy at the end of the life cycle of the Carpet to avoid carpets going to landfills. (Basic Rate-2368/sqm)	Sqm	95.5	3140.40678	Not Quoted	Not Quoted
MAKE: Welspan/Shaw/Miliken/Eronics or equivalent							
17		Screen Printed Carpet Role Supply & installation Of wall to wall Nylon Printed Carpet 1500 GSM with PP Mesh Backing, wool/x (100% Dull Nylon) Roll width - 14 feet over a underlay of rubberised foam 4-6mm glued to under surface as direction of architect engineering cgar Base Rate Rs 2205.8 per sq mts	Sqm	309.06	2925.30	Not Quoted	Not Quoted
MAKE: Forho/Bentlex or equivalent							
18		Providing & Fixing of Flocked textile floor of 6.6 face fiber with 100% Nylon and completely water proof resilient backing. The flooring should be Anti static with thickness of 4.3 mm and approximate weight of 1.8 k.g./sqm of roll form. The carpet should be completely stain resistant and of a density approx. 80 million fibers/sq.mtr (70 million fiber/sq.yd) in the width of 2 mtr. The floor covering should have Fire Test EN-13501, Friction Slip Resistance Test EN 14041 Class DS, with resilient waterproof backing, anti allergic which is certified by British allergy foundation. The carpet should have permanent static contro. The work should be carried out by the authorized installer of the Company in India. Carpet should be laid on zero leveled surface. Carpet should be stick with SR 998 on the floor. (Basic Rate: Rs. 4035/sqm)	Sqm	115	5351.161017	Not Quoted	Not Quoted
MAKE: Forho/Bentlex or equivalent							
ENGINEERED WOOD FLOORING							
19		Providing and fixing three layer construction wooden plank of strip oak total thickness of 15 mm with wear layer thickness of 3.5mm which should be resandable upto 2 to 3 times. In straight plank/chevron/herringbone pattern as design & selection in natural/stained wood sample as/selection. Surface Treatment/Mat/ Ultramatt Lacquer, Core: Pine/ Spruce/ Alder, Joint: Woodloc 55, fifth generation locking system, Moisture Content as per EN 13183: 7% , Reaction to fire as per EN13501: 2:1 Dfl- s1CARB 2 compliant, Biological Durability as per EN350-2 Class1 conforming to strict quality and environment norms. It should be certified by PEFC, FSC, Blue Angel, Real Wood. Accessories will be charge extra installation should be done by a trained and authorized team. Zero level of surface is required for flooring for installation. (Base Rate-5918/sqm)	Sqm	17	7848.355932	Not Quoted	Not Quoted
Make: Krraff/floor, SwanFloors, Notion or equivalent							

PATTERNED ENGINEERED WOOD FLOORING							
20		Providing and fixing of engineered hardwood flooring of Champa make Bangkok Thailand/ or equivalent as per design intent having multiply birch core and backing, silk oil / matt lacquered surface, tongue and groove in Oak wood, ABC grading, 14/3 x600x600, E1 emission class rating, 0 pentachlorophenol content, Dfl-s1 fire resistance, structural manufacturer warranty, installation Glue down over plywood or wooden subfloor. Applicable above, on and below ground level. The floor shall have 4mm ply backing. Also be finished with Kuberit/equivalent aluminium T/Reducer profiles and real wood oak skirtings and other accessories. Base Rate Rs 8177.6 per sq mts.WEAR & TEAR WARRANTY - 10 YEARS	Sqm.	147	11804.99153	Not Quoted	Not Quoted
		Make: Kraftfloor, SpanFloors, Notion or equivalent					
LAMINATE WOOD FLOORING							
21		Providing & Fixing of 10mm thick laminated wooden flooring classification (heavy Domestic / general commercial) with a surface abrasion resistance of class AC 4 (Average 4500 cycle)/ ACS impact resistance of ICI2. Resistance to cigarette burn with rate of 54EN 438-2:15) swelling after 24 hr. in water of 15% , modulus of rupture of 53.3 newton/mm2 , internal bond 1.78 newton / mm2, surface soundness of 1.3 newton/mm2 (EN13329:2000) with a 0.2 thick wear layer on top of high density fiber substrate core (density>850 kg/ m3) of plank size 1291 mmx 135mm having unlift locking arrangement (lock strength > 1000 lbs/ft) with an underlayment made of nature colour foam, with accessories lock end profile , transition profile, reduce etc complete. the rate include cost of all material, accessories , labour, foam underlay etc complete at all level (The shade , pattern etc to be approved by engineer in charge or Architecture), MAKE:- MIKASA; KRAFTWOOD; SPAN; NOTION; or as per selection. BasicRate : Rs 1043.72 per sq.mts	Sqm.	204	1452.923729	Not Quoted	Not Quoted
		Make: Kraftfloor, Notion or equivalent					
22		T' shaped transition profile in rose gold/brass Providing & fixing Green certified 30mm aluminium transition flexi profile for floor to cover joint of two materials at level or upto a level difference of 8 to 10mm. Supplied with screws, plugs, splices as per manufacturer specs etc, fixed as per the instructions with all necessary accessories. The product to be certified Green by accredited authority in India, preferably IGBC. preference will be for green certified by a third party, for made in India product, and for MSME sector	RM	831	642.1355932	Not Quoted	Not Quoted
		Make: IOUBX,Subhnen, Dorma, Ozome or equivalent					
23		Designer vitrified tiles Custom graphic printed GVT/full body vitrified tiles 10-15mm thk as per design Basic rate:1183.6 /sq.m	Sqm.	133.5	1569.677966	Not Quoted	Not Quoted
		Make: Osmail, FCML or equivalent					
		Mosaic tiles					
24		Providing and fixing 12 mm thick stone/ ceramic, Mosaic in design ,colour and shape as per selection designer tiles as per engineer incharge selection for wall cladding and floor. ART WORK/TOBE PROVIDED FOR MOSAIC...Mosaic floor to be hand assembled mosaic - Base Rate Rs 12500 per sq ft	Sqm.	34	178372.1017	Not Quoted	Not Quoted
		MAKE: World of Mosaic/Bathline or equivalent					
		False Flooring Providing and fixing removable raised/false access flooring with systemand its components	Sqm.	12.5	4637.677966	Not Quoted	Not Quoted
		Specification: Surface finish-Polished Size: 600x600x35 Shape: Square Capacity: 363kg/sqm Finish Floor Height: 300mm					
		MAKE: UNITILE, UNIFLOOR, TATE or Equivalent					
A.4 FALSE CEILING							
WOOD WOOL BOARD/BASOTEC							
25		Supplying 'APHONY GLOSS' 15 mm tiles made of Wood Fibre 1mm width cement composites covered with Acoustically Transparent Absorptive microfines on the front side with an option of colours as per the choice of the Architect/ person in charge of size 595 X 595mm Highly recommended for ceilings, has excellent noise absorption of 0.85 NRC as per ISO 354/ASTM 423C, meets stringent Fire Ratings ASTM D- 876, and BS-476 weather resistance as per IS 3308, Thermal Insulation as per IS-3346-1980 with relative humidity of 90% RH at 60o Celsius(140o Fahrenheit) for 15 days- No deterioration. Can be installed on T24 grid system of 0.6mm thick Main 'T' length minimum 3000mm, web minimum 35mm to be placed at 600mm centre to centre and secondary cross 'T' of length 600mm, web minimum 35 mm, inter locked, Wire Support for Main T to be taken at every 1200mm length wise and 600mm width wise. Specially designed for Acoustic Vibration management and long life with a backing of HIMALAYAN ACOUSTICS 50mm 1000 GSM thick absorbwool tested as per Fire Retardant ASTM D 635-1991 and IS 15061-2002 for excellent results. Make Himalayan Acoustics/Hera Design/Baux (Basic Rate: Rs. 2448.57/sqm)	Sqm.	568.785	3247.262712	Not Quoted	Not Quoted
		Specification : TCH (Total Construction Height) -200mm Size : 600/1200 X 600 X 15mm thickness Matrix weight : 7-7.8kg/m2 Edges : (5mm bevelled from all 4 sides) Light Reflectance : upto80-90% Humidity Resistance : 80-90% Colour of paint : Wooden colour natural look/Grey/Concrete Finish Spray paint as approved Reaction to fire acc to En13501-1: B-s1,d 0 Sound Absorption value : NRC 0.85-0.9					
		MAKE: Wood wool Board Fibretec,Himalyan, Tranquil,Armstrong or Equivalent					
26		BASOTECT- 25mm foam panels with water based acoustic colour coating on one side and adhesive on other side (Basic Rate: 1850/sqm)	Sqm.	568.785	2453.449153	Not Quoted	Not Quoted
		MAKE: Basotect (BASF) Indica Chemical					
ACOUSTIC BAFFLE							
27		Supply and fixing of suspended acoustical Hanging Baffles made of pine Wooden Strips NRC Value -0.5-0.80 NRC. The baffle made out of 5mm thick and 25mm- 200 mm wide wood strip on both faces fixed on wooden battens. Rockwool of 48 Kg/m3 density conforming to IS 8183 , tissue fiber paper laminated filled in between wooden strips as acoustic insulation to achieve desired NRC value. The Acoustic Wooden Baffles are conical/ rectangular in shape and design as per architects approval. Size of the Baffles 1200x180x50mm thick, distance in between two baffles will be 150mm. Can be Installed with Hanger Wire or Thred Rod. The Baffles to be suspended individually using the Unistrut Channel with cable adjuster or locking Clip tied by Thred rod or Hanger Wire kit comprising of hanger wire/cable adjuster/cable finishing hook. Sample to be submitted from all the approved make or equivalent for approval of engineer in charge prior to the installation. MTC to be submitted with the delivery of material.	Sqm.	105	9217	Not Quoted	Not Quoted
		MAKE: Durlum, Tranquil, Armstrong, Hunter Douglas, Ecotone, Design duo or Equivalent					
28		Supply & installation of Suspended Acoustic baffle ceiling in 50x250mm thk basotect/Eccore acoustic pane in pet panels (Composition : 100% PET (60% Recycled) with adhesive backing) in single/dual colour option spaced about 200-250 c/c ; CNC cut in shape as design out of 300mm x 50mm strips NRC minimum 0.6 to 0.7 including MS framing suspension rod etc. complete	Sqm.	163.25	5932.20339	Not Quoted	Not Quoted
		MAKE: Basotect-Indica Chemicals (BASF) Pet Panels- Tranquil or equivalent					
GYPSUM CEILING							
		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.					







		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.					
29		12.5 mm thick tapered edge gypsum moisture resistant board extra for gypsum ceiling in vault/ curve	Sqm.	530	1295.85	Not Quoted	Not Quoted
		MAKE: India Gypsum, Boral, Saint Gobain or Equivalent					
		Grid Ceiling					
30		Providing and fixing suspended Demountable acoustic ceiling in recessed grid system - Danoline : Belgravia 600 x 600 x12.5mm E with Unity 4mm holes end to end perforation, c/c 15 mm with 0.8 NRC* Material: High Grade Glassfiber Reinforced Perforated plasterboard with Cleanco Technology Board type: Ceiling tile Length x width x thickness: 600X600X12.5mm Edge: E recessed grid system (8mm recess) Perforation: Unity 4mm holes end to end perforated Surface: Water-based acrylic paint Colour: White NCS 0701 Y24R, closet match to RAL 9003: gloss 5 Attachment: 15 T-grid system INSTALLATION Suspension: Recessed grid system • Sub-division executed with cross - sections length 600 mm • Screw spacing for attachment of edge sections length 600 mm • Light sockets of upto 1.5 kg can be integrated directly into the ceiling tiles. In the case of heavier fittings, load must be taken up directly by the concrete deck or via the grid system and extra hangers. PROPERTIES Fire rating: A2-s1,d0	Sqm.	50	2387.135593	Not Quoted	Not Quoted
		MAKE: India Gypsum, Boral, Saint Gobain or Equivalent					
		METAL CEILING (WOOD FINISH)					
30		Providing & fixing G.I Powder coated wood finish 0.5mm thick Clip-in tile with system. Tile Size: (600x600) or (600x1200) or (600x1800)	Sqm.	55	2983.923729	Not Quoted	Not Quoted
		MAKE: Durlum/ Royal Kerafit/ Manral/ Hunte Douglas or Equivalent					
		Trap door					
		Supply of Greenpro certified Lightweight Aluminium Access Ceiling Trapdoor with continuous aluminium hinge IQUBX CTD-023H. The Trapdoor to be able to carry 10mm Painted MDF Board / Painted Particle Board / Painted marine Ply / P/relaminated Board / painted bison board or calcium silicate board as per the requirement to match the ceiling finish with minimum visible flange. Fixed to soffit of slab and / or ceiling frame with appropriate strong support. The lid to be connected with trap door frame with 1 or 2 Chain with each trap door and locked with 1 or 2 allen keys. The Ceiling Trapdoor may have one or more openable Lid Door depending upon the size of trapdoor. This model has collar depth of 20mm and flange of 3mm on both sides. Rates without lid infill material. (Basic rate: Rs. 7350)					
31		Size-1200x1200	Nos.	12	9747.474576	Not Quoted	Not Quoted
		MAKE: Durlum/ Knauf/ Danoline/ IOUBX or Equivalent					
		Aluminium / uPVC Baffle					
32		Providing and installing interior grade suspended Linear Ceiling system including but not limited to Uniceil uPVC linear Ceiling system. The linear profiles are of square or rectangular in shape of size Regular 50x150 mm or Premium 50x50/100/150 mm with/without provision for LED strip. @ 150mm c/c	Sqm.	177.5	5695.576271	Not Quoted	Not Quoted
		Make, Prominace or equivalent					
		Wallpaper over gypsum ceiling					
33		Supplying of designer wallpaper as per approved samples contains 10% recycled content, Nonwoven/acrylic fabric total weight 8-15 oz/sqyard, thickness .02 inches, meets section 01350 IAQ test requirements , water based, ready to use and works with a variety of substrates, have microbial properties and zero VOC, easy to install with adhesives.	Sqm.	432	1326.186441	Not Quoted	Not Quoted
		Thumb print ceiling					
34		Suspended finger print mark boxing in 12mm MDF with metallic laminate on all exposed sides. The suspended structure shall be supported by M.S. 18-20 dia rods from RCC slab as per design with spacing in between as per design	Sqm.	52	10609.49153	Not Quoted	Not Quoted
		Custom fabricated					
		Acrylic Emulsion Paint					
35		Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade .Two or more coats on new work.	Sqm.	45.041	109.03	Not Quoted	Not Quoted
		Asian/ Berger/ Nerolac					
		Pelmets					
36		Fabricate and install pelmet made of 18-19 mm thick board, up to 300 mm high and in line with external glazing as per details of Architect. Rate to include finishing exposed surfaces of the Pelmet with enamel paint of approved shade or 1mm laminate.	RM	54	615.1271186	Not Quoted	Not Quoted
		Linear open cell ceiling					
37		linear hook-on ceiling System. The non perforated panels are made to 1200(L)x600(W) manufactured out of minimum 0.8mm thick GMS and hooked on the shorter side. Finish of the panels to be powder coated to selected graphic digitally printed UV cured finish with minimum 80 microns base coating. All panels are hooked onto a secondary grid known as U1005 installed at shorter side of the panel to ensure individual demounting of panels for easy accessibility of services . A primary grid of perforated L- Angle in 30x30x1.2mm thick galvanized steel known as U1040 is installed perpendicularly to hook on profiles at maximum centers at 1200mm. The entire ceiling shall be suspended with M6 threaded rod using Hilti M6 fastener with minimum load of at least 0.5kn per anchor. The suspension system shall be as per manufacturer specification . The panels shall include the site cutting / making openings for services e.g. lights for information boards, smoke detectors, speakers, diffusers, grills etc. Measurement to be done on edge to edge basis without any deductions for AC grills or any other services integrated within the false ceilings. Tolerances according to TAIM, DIN EN 13964 and quality controlled to ISO 9001:2015 approved by SIS,LEED certification by IGBC. Manufacturer shall have the fully automatic powder coating system with power and free conveyerize 3mtr/minute capacity. Powder coating plant shall be equipped with latest modern technology with fully automatic inline Pre-treatment using nano technology, Inline automatic water Drying system after pretreatment.	Sqm.	309.06	6962.483051	Not Quoted	Not Quoted
		Make-Durlum, Hunter Douglas, Knauf Danoline or equivalent					
		Metal Clip on ceiling					
38		Hook on custom made perforated linear ceiling System. The panels are made to 1200mm(L)x600mm(W) manufactured out of minimum 0.6mm thick GMS, powder coated in selected wooden finish with minimum 60 microns thickness. Panels to be perforated with 10-40mm diameter holes having acoustic fleece at the back. All panels are hooked onto a secondary grid known as U1005 installed at shorter side of the panel to ensure individual demounting of panels for easy accessibility of services. A primary grid of perforated L- Angle in 30x30x1.2mm thick galvanized steel known as U1040 is installed perpendicularly to hook on profiles at maximum centers at 1200mm. The entire ceiling shall be suspended with M6 threaded rod using Hilti M6 fastener with minimum load of at least 0.5kn per anchor. The suspension system shall be as per manufacturer specification. Supporting system shall be fully concealed in accordance with TAIM standards and tolerance according to DIN EN 13964 The panels shall include the site cutting / making openings for services e.g. lights for information boards, smoke detectors, speakers, diffusers, grills etc. Manufacturing shall be quality controlled as per ISO 9001:2015 approved by SIS. Manufacturer shall use officially approved anchor fasteners as per the requirement of DIN. All ceiling shall be LEAD certified by IGBC. Measurement to be done on edge-to-edge basis without any deductions for AC grills or any other services integrated within the false ceilings. Finish-RAL powder coated having 60-80 microns paint thickness	Sqm.	16.8	4946.677966	Not Quoted	Not Quoted
		Finish: Electrostatically powder coated to wooden finish with minimum 60 microns					
		Make-Durlum, Hunter Douglas, Knauf Danoline or equivalent					
A.5 PARTITION FRAMING							
		TEAK WOOD FRAMING					
		Providing and fixing specified wood frame work consisting of battens 50x25mm fixed with rawl plug and drilling necessary holes for rawl plug etc. including 2 coats of fire retardant paint.					
39		Kils seasoned and chemically treated hollow wood	sqm.	1719.94	484.059322	Not Quoted	Not Quoted
		48/12MM thk MDF skin to framing					

		Providing and fixing plain lining with necessary screws/nuts & bolts/ nails, including a coat of approved primer on one face, and fixed on wooden (steel frame work, complete as per direction of Engineer-in-charge (Frame work shall be paid for separately).					
40		4mm MDF panelling	Sqm.	202.4	508.4745763	Not Quoted	Not Quoted
41		8mm MDF panelling	Sqm.	961.52	720.3389831	Not Quoted	Not Quoted
42		12mm MDF panelling	Sqm.	1628.1	1037.838983	Not Quoted	Not Quoted
		MAKE: CENTURY, GREENPANEL, ACTION TESA, DURATUF or Equivalent					
43		Extra for 4mm ACP pasted over 4/8 12mm MDF	Sqm.	28.8	961.0169492	Not Quoted	Not Quoted
		MAKE: Alstom/ Aludecor/ alstrong/ Eurobond or Equivalent					
		ROCK WOOL INSULATION					
44		Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m ³ , 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.	Sqm.	1409.88	267.8389831	Not Quoted	Not Quoted
45		GI Frame IN PARTITION	Sqm.	44.28	364.703898	Not Quoted	Not Quoted
		50/75mm GI stud partition framing as/manufacturer specification about 600mm c/c on wall free standing partition					
		Make- India Gypsum or Equivalent					
		Stainless steel channel					
46		Stainless steel channel (Champagne gold/copper/rose gold/ silver)/anodised channel/T-Profile in grooves in partition finish as per selection	RM	216	397.8559322	Not Quoted	Not Quoted
A.6 WALL FINISHES							
		CALCIUM SILICATE BOARD					
47		10mm thick calcium silicate board	Sqm.	43.5	391.5254237	Not Quoted	Not Quoted
		ACP CLADDING					
48		4 mm Metallic shade FR ACP with punched holes design as per pattern/design. Punched holes back covered with black fleece/ Black/ White Acrylic sheet with light strip behind. The entire assembly to be on aluminium frame as backing in rain screen design - gaps to be filled with 50mm rock wool insulation complete.	Sqm.	159	4707.966102	Not Quoted	Not Quoted
		VENEER PANELLING					
49		Providing and fixing 4mm thick veneer over MDF (Base rate-1500 per sqm.)	Sqm.	820.98	1989.28	Not Quoted	Not Quoted
50		Special Veneer (Base rate-2500 per sqm.)	Sqm.	30.5	3315.47	Not Quoted	Not Quoted
		MAKE:Coast to Coast, Greenlam, Mikasa, Durian or equivalent					
		CORIAN PANELLING					
51		Cladding PF 4mm thick Corian sheet of approved color and shade over existing MDF Board as per groove design pattern with adesev etc. Complete with finishing of groove and filled with matching daco paint.Including corian edge moulding over partition edge frames etc of size 75mm x 12mm	Sqm.	225	7957.12	Not Quoted	Not Quoted
		Make- LG Hausys/ DU pont/ Merino/ Tristone/ Tranquil					
		ACOUSTIC PANELLING					
52		P/P acoustic panels any size and shape in approved color with Standard size & thickness of 9-12 mm. PNV acoustic Panels should have Sound Absorption coefficient (NRC) (0.3- 0.94). Formaldehyde emission standards of GB18580-2001 class E1, it is a green material with asbestos-free, non-toxic and tasteless gas under extreme temperature, protecting the ozone layer, non-irritant and recyclable. acoustic panels have to be Fire-resistant. Good insulation properties, to prevent transmitting the heat from outdoor to indoor directly as partition or and ceiling, saving 35% of energy, extending the life of air conditioning, acoustic panels are Light weight and allow free cutting with paper knife. Sample to be submitted from all the approved make or equivalent for approval of engineer in charge prior to the installation. MTC to be submitted with the delivery of material.	Sqm.	465.74	4637.68	Not Quoted	Not Quoted
		Make- Continuum/ Tranquil/ Ecotone or Equivalent					
		WALLPAPER					
53		Supplying of designer wallpaper as per approved samples contains 10% recycled content, Nonwoven/acrylic fabric total weight 8-15 oz/sqyard, thickness-.02 inches, meets section 01350 IAQ test requirements, water based, ready to use and works with a variety of substrates, have microbial properties and zero VOC, easy to install with adhesives.	Sqm.	547.1	1326.19	Not Quoted	Not Quoted
		Make- Asian/ Marshalls/ India Circus/ Life n colours					
		LACQUERED GLASS PANELLING					
54		Providing and fixing of 4mm thick toughened plamlaque lacquered glass extra white / coloured with s edge protection in ss 316 grade. Sample to be submitted from all the approved make for approval of engineer in charge prior to the installation. MTC to be submitted with the delivery of material.	Sqm.	148.4	2592.69	Not Quoted	Not Quoted
		Make- Saint Gobain/ JB Glass/ AIS/ Tranquil or Equivalent					
		DADO IN ITALIAN MARBLE					
55		Providing and fixing marble set, mirror/ eggshell polished . Marble stone work for wall lining (veneer work) including dado, skirting, risers of steps etc., in required design and pattern wherever required, stones of different finished surface texture, on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) laid and jointed with white cement slurry @ 3.3 kg/sqm including pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, polishing etc. all complete as per Architectural drawings, and as directed by the Engineer-in-Charge.	Sqm.	113.84	8826.101695	Not Quoted	Not Quoted
		18 mm thick Italian Marble stone slab,Perlato, Rosso verona, Fire Red or Dark Emperadore etc.					
		CORK PANELLING					
56		Providing & fixing decorative cork for wall made in Portugal or approved Equivalent Cork wall covering with thickness of 3mm & size of tile 600mmx300mm . Cork base with agglomeration of cork & cork veneer on top waxed or varnished. Dimensions conforming to EN427 & dimensional stability conforming to EN434.Reaction to fire according to EN 13501-1-class E2/00 or Ds1/00. The product to be installed using an adhesive as would be recommended by manufacturer. (Basic Rate: 3228/sqm)	Sqm.	46	3627.91	Not Quoted	Not Quoted
		Make- CCIL/ Anchor/ Zencork or equivalent					
		PIN-UP BOARD					
57		P/P 12 MM SOFT BOARD (SITATEX OR EQUIV) OVER PARTITION/ WALLFRAMING alongwith side ALUM 12 MM CHANNEL EDGE PROFILE COVEREDWITH PIN UP FABRIC COVERING EXPOSED SIDES AND FIXED TO WALL/ PARTITION COMPLETE(FABRICBASE RATE Rs 300 per metre) Sample to be submitted from all the approved make or equivalent for approval of engineer in charge prior to the installation. MTC to be submitted with the delivery of material.	Sqm.	50.5	1750.57	Not Quoted	Not Quoted
		ALUMINIUM SKIRTING					
58		Supply and fixing of modular aluminium skirting, 100 mm high x 5.5 thick, 1.2 mm wall thickness, snap fit assembly. Finished in anodizing or powder coating, as required.	RM	478	298.39	Not Quoted	Not Quoted
		ALUMINIUM CHANNEL					
59		12x12mm powder coated Aluminium channel b/w grooves	RM	150	185.67	Not Quoted	Not Quoted
		Make- IQUBX/ Subhnen					
		Aluminium / PVC Baffle					
60		Providing and installing interior grade suspended Linear Ceiling system including but not limited to Uniceil upPVC linear Ceiling system. The linear profiles are of square or rectangular in shape of size Regular 50x150 mm or Premium 50x50/100/150 mm	Sqm.	50	5695.58	Not Quoted	Not Quoted
		Make- Promnace or equivalent					
		Acrylic Emulsion Paint					
61		Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	Sqm.	27	109.0254237	Not Quoted	Not Quoted
		Make-Asian,Deluxe, Berger or equivalent					
		Laminate					
62		Providing and fixing decorative high pressure laminated sheet of plain/ wood grain in gloss/matt/suede finish with high density protective surface layer and reverse side of adhesiv bonding quality conforming to IS-2046 Type S, including cost of adhesive of approved quality.	Sqm.	1552.2	760.4237288	Not Quoted	Not Quoted
		1.0mm thk					
63		Make-Merino,Bloom Dekor,Green Panel or equivalent					
		Glass Block					
		Make-SGP Corp.					
		Fluted glass					
		Make-					
64		Granite Top over ledge at glazing	Sqm.	15.35	2592.69	Not Quoted	Not Quoted
65		Hanging screens in acoustic pet panels	Sqm.	117.6	2592.69	Not Quoted	Not Quoted
		Wall tile Glazed ceramic tiles					
66		Providing and fixing high quality ceramic glazed wall tiles conforming toIS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm.	9	901.81	Not Quoted	Not Quoted
67		Mirror Panelling	Sqm.	20	4164.23	Not Quoted	Not Quoted
68		Wall tile vitrified (Base rate=1500per sq.m)	Sqm.	15	1989.28	Not Quoted	Not Quoted








		Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including routine the joints with white cement and matching pigments etc., complete.					
A.7 MISCELLANEOUS							
TOILETS AND ASSOCIATED WORKS							
69		Supply and installation of Merino-Besco Titan Standard series cubicles of width and depth as per specifications/site drawings. Cubicle height will be 1980 mm. Made from solid grade compact high pressure laminate as per IS:2046 and EN438- manufactured under high specific pressure > 5 MPa and temperature 120° C with bunch of kraft paper, impregnated with thermosetting phenolic resin and decorative papers made of cellulose fiber, impregnated with thermosetting melamine resin which provides superior scratch, abrasion, heat, chemical, impact, graffiti and moisture resistance along with anti-bacterial properties. Panels have a black core that when machined, presents a distinctive black edge. Size of panels to be as per drawing. Design No. as specified by Arch. Engr. in sueds finish. DOORS- All doors will be of single colour and made of 12 mm thick Merino HPL compact panel. The doors will have chamfered edges. Each door will be supported by 3 stainless steel made hinges affixed to the pilasters. Stainless steel coat hook and stainless steel door knob. All the doors will be routed at the vertical ends and the rubber sponge lining will be incorporated at the routed ends. PILASTERS -All pilasters will be made of 12 mm thick Merino HPL compact panel with chamfered edge and completed with stainless steel made lock set (comprised of thumb-turn and occupancy indicator). Pilasters will be anchored to the floor using stainless steel made adjustable legs. All pilasters will be routed at their vertical ends to facilitate closure of doors. DIVIDERS -All intermediate partitions or dividers will be made of 12 mm thick Merino HPL compact laminate	NOS	16	29492	Not Quoted	Not Quoted
Make-Merino/ Action /TESA/ Greenlam							
Roller Blinds							
70		Supplying and installing Manual black classic screen 5%	Sqm	70	2822.88	Not Quoted	Not Quoted
71		Supplying and installing Blackout Blinds Ribwood/Moore series	Sqm	20	2822.88	Not Quoted	Not Quoted
72		Supplying and installing Roller RTS Sunfy Motor	Nos.	10	26261.02	Not Quoted	Not Quoted
73		Supplying and installing Roller Sunfy smooove Remote	Nos.	10	3938.98	Not Quoted	Not Quoted
Make-Vista/ Luxalon/ Deck							
74		LOGO SIGNAGE (BACK LIT)	Nos.	7	12736	Not Quoted	Not Quoted
ARTWORK AS/SELECTION							
75		Creating design and creation of Art work concept on given subject. With initial visit to site, preparation of various designs with different material, providing the samples, layout for approval, improvisation in short listed creative's and making of final layout for final production by enlargement of drawing as per ratio of actual size, to prepare detailed working shop drawings (full scale) based on the Concept drawings / Views / site conditions, display of actual size dummy /mock up Fabricated in sun board with digital print for client approval ART WORK EXECUTION Towards the cost of doing canvas PAINTING by qualified artist including frameand installation at site. • Anti-noise rubber padding of thickness 2 mm and width 10 mm	Nos.	20	3283	Not Quoted	Not Quoted
76		SCULPTURE AS/SELECTION	Nos.	3	25473	Not Quoted	Not Quoted
77		Mirror 1.2m dia	Nos.	3	4268	Not Quoted	Not Quoted
78		PICTURE LIGHTS	Nos.	6	6040	Not Quoted	Not Quoted
79		Expansion joint cover strip	RM	3	552	Not Quoted	Not Quoted
80		SHOP DRAWINGS: Preparation of complete set of shop drawings including finishing, MEP services, details, design calculations etc. and for preparation of as built drawing any other details as and when desired by Engineer Incharge/ client. A qualified professional for the purpose shall be appointed after due approval from Engineer InCharge.	No.	1	874232.4	Not Quoted	Not Quoted
A.8 DOOR/WINDOW/GLAZING							
Fixed Aluminium frame glazing (Double Glazed)							
81		Supply & Installation of Full Height Wideline Partitions systems of size 100 x 25 mm thick section for the partitions using verticals at the solid partition junction & Horizontal at top & bottom with snap on option for installing glass & T Section, corner Section & Vertical 'T' Section between Glass to glass from PFL upto 2600mm Complete in all respect considering 10 mm thk toughened glass with double sided adhesive tapes for glass to glass but joints all complete as per drawings and as directed by Engineer-in-charge (lko s.dorma; kubic or equivalent)	Sqm.	35.52	6828	Not Quoted	Not Quoted
Flush Door 40mm							
82		40 mm thick flush door with polished veneer finish both sides including frame, hinges door closer, handle and necessary hinges	Nos.	19	34140	Not Quoted	Not Quoted
83		Entry Door	Sqm.	7.2	8666	Not Quoted	Not Quoted
84		Corporate entry door (Sliding Door)	Sqm.	7.2	8666	Not Quoted	Not Quoted
85		Louvered Aluminium shutters with frame for elec.shafits/access panel	Nos.	6	5975	Not Quoted	Not Quoted
86		Aluminium Frame/Alum + glass	Sqm.	1	9192	Not Quoted	Not Quoted
A.9 FURNITURE							
Storages							
		Full height Storage in veneer finish			43.92		
		Low height Storage in veneer finish			97.75		
87		Providing and fixing Full or half height Storage /Cupboard: P/F of storage unit 600mm deep consisting of double full openable shuttered finished with 1mm thick approved laminate of as per make list on front faces over 19mm thick board frame on top shall be finished with 12 mm thick acrylic surface. bottom & sides and form thk ply on back side of cabinet using approved board or equivalent including drawer units,shelves finished colour as per Interior dug, with necessary hardware of as per make list like concealed Hinges, magnetic catcher,locks,handles, knobs complete etc. at all aspects. All internal and back sides shall be white laminate or enamel paint of approved brand . All exposed surface to be treated with anti termite and fire reterdant paint before laminate , etc.	Sqm.	141.67	6269	Not Quoted	Not Quoted
88		Overhead Storage	Sqm.	52.74	6565	Not Quoted	Not Quoted
89		Reception table in 18mm MDF body as/shape and design, top in 25mm MDF with all exposed surfaces in corian finish. Lattice work design in custom cut corian as/design. Table top in select italian marble	Nos.	2	262611	Not Quoted	Not Quoted
90		Discussion Nook Seating in leatherite HD foam as/design	Nos.	2	10242	Not Quoted	Not Quoted
91		Discussion Table in corian Top 18mm ply underside laminate + metal/chrome plated stand support	Nos.	2	7878	Not Quoted	Not Quoted
92		2400x750	Nos.	1	17070	Not Quoted	Not Quoted
93		1800x750	Nos.	1	13131	Not Quoted	Not Quoted
94		Sofa seats (1800x750x750) Full fabric upholstered; Stainless/chromium plated legs	Nos.	4	78783	Not Quoted	Not Quoted
95		Side Table (glass top) 600x600x600	Nos.	4	12736	Not Quoted	Not Quoted
96		Lounge seats in full velvet/ suede upholstery/hdf infill + polyfill as/shape & design	Nos.	5	59744	Not Quoted	Not Quoted
97		Eames chair in leatherite and exposed wood back with ottoman	Nos.	4	78783	Not Quoted	Not Quoted
98		Floor Light in metal as/selection (Base Rate-15000)	Nos.	2	19696	Not Quoted	Not Quoted
99		Coat Hook Stand in teak wood as per selection (Base rate-4000)	Nos.	4	5253	Not Quoted	Not Quoted
100		Umbrella stand as per selection (Base rate-3000)	Nos.	4	3939	Not Quoted	Not Quoted
101		Flag post as per selection (Base rate-5000)	Nos.	4	6565	Not Quoted	Not Quoted
102		Teak wood blinds	Sqm.	60.73	328	Not Quoted	Not Quoted
103		Lounge chairs in T.wood as per selection (Base rate-15000)	Nos.	8	19696	Not Quoted	Not Quoted
104		sofa chairs @ ottoman as per selection (Base rate-10000)	Nos.	4	13131	Not Quoted	Not Quoted
105		Tea nesime tables as per selection (Base rate-3000)	Nos.	8	3939	Not Quoted	Not Quoted
106		Custom design lounge sofa as per selection (Base rate per seat-7500)	Nos.	4	9848	Not Quoted	Not Quoted
107		Centre table glass topped as per selection (Base rate-12500)	Nos.	6	16414	Not Quoted	Not Quoted
Teak wood circular/Hexagonal Table with conical base							
108		6 Nos. chair to match table Honey polish on sheesham wood with fabric seat upholstery wicker back & with or without arms as per selection	Nos.	1	98479	Not Quoted	Not Quoted
109		teak wood blade ceiling fan suspended from ceiling 1200-1500 mm dia as/selection	Nos.	4	30200	Not Quoted	Not Quoted
A.10 KITCHEN APPLIANCES							
Induction							









110		Supply, installation of 2 Zone Built-in Induction Hob Touch Control 3500W (1013 IC) Specifications: Ignition Support Battery/Electric : Electric Control : Touch control Number of Induction Zone : 2 Cooking Output : Zone 1 - 1500 W and Zone 2 - 2000 W The LED touch controls set against the backdrop of German Schott Ceramic Glass. It has an integrated auto-ignition of 1.5 V Power setting : 9 Levels Timer : 99 Minute Automatic safety shut-off Glass : Schott Ceran Ceramic Child Safety Lock Size : 288 x 520 mm Cut Out Size : 268 x 500 mm (Base rate: Rs. 32296) Make: Glen,Kaff or equivalent	Nos.	2	43719	Not Quoted	Not Quoted
		Bain Marie Supply and Installation of SS hot bain marie 1 US+2 OHS & sneeze guard of size 70x18-12x34-18 inc. meeting the detailed specification provided in the tender Specifications: Material- Stainless Steel Voltage- 220 V Color- Metallic Power- 1.5 KW (Base rate: Rs. 41000) Make: Aahar Kitchen equipments or equivalent	Nos.	2	53836	Not Quoted	Not Quoted
		Fridge/Refrigerator Supply, Installation of 5 star & 650L Convertible French Door Refrigerator RF65DG90BDSG Net capacity : 650L Cooling type : triple Height: 1.83m Depth with door : 72.3cm Net weight: 123kg Net width: 91.2m (Base rate: Rs. 172900) Make : Samsung, Kaff or equivalent	Nos.	2	227027	Not Quoted	Not Quoted
		Microwave Oven Supply, installation of MZ OV6 TN Black Glass with Titanium Finish Fascia Child Lock 60cm ELECTRIC OVEN with True Convection Large Cavity 67 L Touch Control Panel Black Glass with Titanium Finish Fascia (Base rate: Rs. 77390) Make: Kaff, Faber, Bosch or equivalent	Nos.	2	101618	Not Quoted	Not Quoted
		Coffee Maker Coffee Maker (Black) Multi coffee options (Espresso, Cappuccino, Latte, etc.) Coffee Beans and Ground Coffee Preparation Adjustable Coffee Output Full Touch Control Panel & LED Display (Base rate: Rs. 174590) Make: Philips,murphyRichards,Hamilton, KAIF or equivalent	Nos.	2	229247	Not Quoted	Not Quoted
		Dinner Set Proving & Supplying WHITE GOLD 44 PCS MELAMINE FULL DINNER SET CROCKERY - ROUND - BAMBOO (set 2 no. of different colors) (Base rate: Rs. 1500)	Nos.	4	1969	Not Quoted	Not Quoted
		Dustbin Proving & Supplying King Tenders - Stainless Steel Plain Pedal Dabbin/ Plain Pedal Garbage Bin with Plastic Bucket- 7 litre (8x12), (For all rooms 1 no. each, kitchens 2 no. and toilets 1 no. each) (Base rate: Rs. 2500)	Nos.	10	3283	Not Quoted	Not Quoted
		Chimney Supply & installation of chimney-PROFORM 90 Hassle Free Filter Less + Dry Heat Auto Clean Technology Smart Auto Clean Feature for Smooth Operation BLDC Motor with Powerful Airflow Uniquely Designed Auto Suction Opening System Airflow: 1280 m ³ /h Air Outlet: 160 mm Voltage: 220-240V/50Hz (Base rate: Rs. 37000) Make: Glen, Kaff or equivalent	Nos.	1	48583	Not Quoted	Not Quoted
		Sink Supply & installation of sink with Black 304 grade Stainless steel finish Finish: Black Stainless Steel Finish (PVD Graphite Black) Thickness :1mm Size: 850x450mm (Base rate: Rs. 25690)	Nos.	1	33732	Not Quoted	Not Quoted
		Water dispenser Supply & installation of Bottleless Water Cooler Hot and Cold Water Dispenser For Offices & Homes Colour- BLACK DIMENSIONS: Width: 10.24 in. Depth: 17.72 in. Height: 43.7 in. Dispense Area Height: 6.25 in. STORAGE: Pure Water Storage: 1.06 GAL. Cold Water Storage: 0.79 GAL. Hot Water Storage: 1.32 GAL.(Base rate: Rs. 29600) Make: Atlantis, Avalon, Kent, DrinkPod or equivalent	Nos.	4	38866	Not Quoted	Not Quoted
		Undercounter RO Supply & installation of Reverse Osmosis 5 Stage Under Sink with Brushed Nickel Faucet (Base rate: Rs. 16100) Make:Havells, Kent, Aqua, DrinkPod or equivalent	Nos.	2	21140	Not Quoted	Not Quoted
		Washroom Panel Washroom Panel/Recessed S.Steel (3 In 1) (Automatic Paper Dispenser / High Speed Hand Dryer / Waste Receptacle) (Base rate: Rs. 63990) Make: Euroseries, Dolyty or equivalent	Nos.	7	84022	Not Quoted	Not Quoted
		Modular Kitchen Design & providing/Fixing/installing of complete modular kitchen for staff dining area or as directed. Inclusive of all hardware: Accessories: G-Handles ; pull out ; Drawer Slides; Drawer dividers; Cutlery & utensil organisers etc complete Carcass out of 18mm HDMR waterproof,Termite proof board: all inside of storages to be in 0.8-1.0mm laminate ; outside visible shutters & sides in 18-25mm HDMR + 2mm Acrylic (matt/gloss) as per selection					
122		A. under counter storage 600 deep : 700 high inclusive of drawers/shutters etc as per design	cum	3.65	39392	Not Quoted	Not Quoted







123		B. Fixing Acrylic/Cultured marble stone top over counter along with 40mm edge moulding as per design	Sqm.	5.22	13131	Not Quoted	Not Quoted
124		C. Over head storages 400 deep inclusive of top hung shutters hardware: Accessories: Kitchen Sink drip tray & unit	cum	1.3	32826	Not Quoted	Not Quoted
125		D. Full height pull out storage with all accessories - Hardware etc. complete	cum	0.75	39392	Not Quoted	Not Quoted
A.11 GREEN WALLS AND PLANTS							
126		DELIVERABLES: BOX FILING PARTITION + BIOPHILIA - Plant Size - Small Height Size Plant - Plant Varieties - Snow White - Scope Include Inner pot,light textured media(cocopeat+vermicompost+neem cake+perlite+coco chips+ base plate) (For 200-250 gsm)	NOS	75	365.47	Not Quoted	Not Quoted
127		DELIVERABLES: ARTIFICIAL GREEN WALL Artificial matt as per selection-Thickness from wall 150mm to 200mm-PVC netted mesh support with PVC Artificial plants attached as per the pattern and design. Mesh provided for the help of fixing of the required surface with the help of staple pins or glue. (For 200-250 gsm)	SQFT	190	818.64	Not Quoted	Not Quoted
128		DELIVERABLES: - Plants with self irrigation - Thickness from wall 150mm to 200mm - MS rectangle pipes fixed horizontally on the surface with equal distancing for the fixing of pvc pots as per the clients requirement.	SQFT	200	2192.80	Not Quoted	Not Quoted
129	RECEPTION	DELIVERABLES: Moss wall Panels made of natural stabilized lichen- moss high density arrangement of Grade A with Thickness 30 to 60 mm. fixed over fabricated framework using a mounting system. The mounting frame support can be bent up to 30°	SQFT	200	5847.46	Not Quoted	Not Quoted
130		DELIVERABLES: CREEPERS Artificial hanging creeper plant made from environmentally safe plastic, harmless and stable, plastic greenery garland keep fresh color without any care. Artificial Hanging creepers are perfect for any different style collocation. Artificial creepers is easy to bend for hanging and take down, put directly into the basket or inserted in the soft object, and also reduce maintenance costs while adding sense of nature to the areas.	NOS	140	511.65	Not Quoted	Not Quoted
131		DELIVERABLES: BOX PLANTATION + BIOPHILIA - Plant Size - 1-2 feet - Varieties of plant - Diffenbachia - Scope Include Inner pot, light textured media (cocopeat + Vermicompost + neem cake + Perlite + coco chips) + Lecca balls. (For 200-250 gsm)	NOS	30	847.88	Not Quoted	Not Quoted
132	WORKSTATION	DELIVERABLES: CREEPERS Artificial hanging creeper plant made from environmentally safe plastic, harmless and stable, plastic greenery garland keep fresh color without any care. Artificial Hanging creepers are perfect for any different style collocation. Artificial creepers is easy to bend for hanging and take down, put directly into the basket or inserted in the soft object, and also reduce maintenance costs while adding sense of nature to the areas.	NOS	250	511.65	Not Quoted	Not Quoted
133		DELIVERABLES: PLANTERS GLOBE Planter size =H- 14", D- 18 - Planter Material - Fiberglass (FRP) - Planter Finish - Glossy/Matte - Plant Size - Small Height Size Plant - Plant Varieties - Areca palm - Scope Include Inner pot,light textured media(cocopeat+vermicompost+neem cake+perlite+coco chips+ base plate)	NOS	22	3852.01	Not Quoted	Not Quoted
134	VIP LOUNGE AREA	DELIVERABLES: PLANTERS (Shark Series) Planter size =H- 26", D- 14" - Planter Material - Fiberglass (FRP) - Planter Finish - Glossy/Matte - Plant Size - Small Height Size Plant - Plant Varieties - Areca Palm - Scope Include Inner pot,light textured media(cocopeat+vermicompost+neem cake+perlite+coco chips+ base plate)	NOS	3	3603.50	Not Quoted	Not Quoted
135		DELIVERABLES: Natural Hanging Creepers Supply & placing of Hanging pots approx drooping length 450mm these will be planted in the hanging planter and will be installed directly to the ceiling using S hooks and will be hunged.	NOS	3	497.03	Not Quoted	Not Quoted
136		DELIVERABLES: CREEPERS Artificial hanging creeper plant made from environmentally safe plastic, harmless and stable, plastic greenery garland keep fresh color without any care. Artificial Hanging creepers are perfect for any different style collocation. Artificial creepers is easy to bend for hanging and take down, put directly into the basket or inserted in the soft object, and also reduce maintenance costs while adding sense of nature to the areas.	NOS	100	511.65	Not Quoted	Not Quoted
137	STAFF DINING AREA	DELIVERABLES: PLANTERS (Rectangular Box planter) Planter size =L- 24", B- 12", H- 18" - Planter Material - Fiberglass (FRP) - Planter Finish - Glossy/Matte - Plant Size - Small Height Size Plant - Plant Varieties - Aglonoma butterfly - Scope Include Inner pot,light textured media(cocopeat+vermicompost+neem cake+perlite+coco chips+ base plate)	NOS	15	6834.22	Not Quoted	Not Quoted
138		DELIVERABLES: CREEPERS Artificial hanging creeper plant made from environmentally safe plastic, harmless and stable, plastic greenery garland keep fresh color without any care. Artificial Hanging creepers are perfect for any different style collocation. Artificial creepers is easy to bend for hanging and take down, put directly into the basket or inserted in the soft object, and also reduce maintenance costs while adding sense of nature to the areas.	NOS	105	511.65	Not Quoted	Not Quoted
139	CENTRAL FOYER BEHIND RECEPTION	DELIVERABLES: Natural Hanging Creepers Supply & placing of Hanging pots approx drooping length 450mm these will be planted in the hanging planter and will be installed directly to the ceiling using S hooks and will be hunged.	NOS	10	497.03	Not Quoted	Not Quoted
140		DELIVERABLES: Artificial Matt -Artificial matt as per selection -Thickness from wall 150mm to 200mm -PVC netted mesh support with PVC Artificial plants attached as per the pattern and design. Mesh provided for the help of fixing of the required surface with the help of staple pins or glue.	SQFT	600	95.02	Not Quoted	Not Quoted
141		Acrylic rock with light	NOS	8	14618.64	Not Quoted	Not Quoted
		Add 15% AMC for one year after installations for all green plants & Green Walls installations					
B. MODULAR FURNITURE							






142		<p>Providing & Placing Chairman Table of Size: 3500*2320*760, L Shaped Executive Table with Unique Design Curved Modesty Panel & Fixed Side Storage. Table top will be 60mm thick with bevelled edge. Table top shall have PU Leather pad. Modesty panel is attached to a laser cut design on metal to enhance design. Including Electric Rotable Wirebox with Wireless Charger Smart Lock, Blum Damping Slide Rail, Blum Hinge.</p> <p>1. Substrate: medium fiberboard and particleboard. E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; particleboard using E0 grade substrate standard, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³;</p> <p>2. Surface material: natural solid wood veneer veneer, natural and smooth appearance;</p> <p>3. Veneer: the plate is made of finish paper, which is wear-resistant and not easy to change color;</p> <p>4. Edge sealing: the use of high-quality MDF substrate and solid wood veneer edge sealing, effectively preventing water intrusion;</p> <p>5. Edge sealing: using high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature suppression in the edge, effectively prevent moisture intrusion;</p> <p>6. Surface: the surface is bright and smooth, glossy, clear wood grain, good overall effect;</p>					Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
143		<p>Providing & Placing Chairman Back Storage of Size: 4000(w)*450(d)*2000(ht) Back Storage is having a laser cut design on metal. Open Area shall have LED light.</p> <p>1. Substrate: medium fiberboard and particleboard. E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; particleboard using E0 grade substrate standard, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³;</p> <p>2. Surface material: natural solid wood veneer veneer, natural and smooth appearance;</p> <p>3. Veneer: the plate is made of finish paper, which is wear-resistant and not easy to change color;</p> <p>4. Edge sealing: the use of high-quality MDF substrate and solid wood veneer edge sealing, effectively preventing water intrusion;</p> <p>5. Edge sealing: using high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature suppression in the edge, effectively prevent moisture intrusion;</p> <p>6. Surface: the surface is bright and smooth, glossy, clear wood grain, good overall effect;</p> <p>7. Paint: water-based wood environmentally friendly paint, beautiful, non-discoloring, smooth and wear-resistant, odorless, benzene content (benzene, toluene, ethylbenzene, xylene and xylene) for 50mg/kg, free formaldehyde</p>	Nos.	1	10,53,205			
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
144		<p>Providing & Placing Chair for Chairman Cabin of Size: 655*710*1250 (Ht). High Back Executive Chair with Half Leather Finish Donati Synchronized Tilting Mechanism with 4-Position Locking, Class-3 Gas Lift, Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors. Leather: head layer cowhide, thickness > 2mm. Sponge: Density 30KG/m³ native sponge cushion, healthy and odorless, 6cm thickness, to ensure that the buttocks have enough sinking depth. Chassis: synchronized tilt chassis ("DONATI" brand), four gear adjustment, hand-cranked back tension adjustment system. Pneumatic bar: gas bar lifting stroke 8CM, 120,000 times lifting and rotating test, 2.0MM thick-walled tube, genuine steel seal certification. Chair feet: aluminum alloy die-casting chair feet, radius 345MM, surface fine polishing treatment, one-piece molding. Chair wheel: R60mm PU wheel anti-vibration mute wheel, normal use, can be in smooth hard surface back and forth 100,000 times without losing any function.</p>	Nos.	1	66,698	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
145		<p>Providing & Placing Visitor Chair for Chairman Cabin of Size: 605*710*970 (Ht). High Back Executive Chair with Half Leather Finish Donati Synchronized Tilting Mechanism with 4-Position Locking, Class-3 Gas Lift, Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors. Leather: head layer cowhide, thickness > 2mm. Sponge: Density 30KG/m³ native sponge cushion, healthy and odorless, 6cm thickness, to ensure that the buttocks have enough sinking depth. Chassis: synchronized tilt STG chassis, single file lock. Pneumatic bar: gas bar lifting stroke 8CM, 120,000 times lifting and rotating test, 2.0MM thick-walled tube. Chair feet: electroplated steel feet, radius 350MM, 1 Chair Wheel: R60mm PU wheel anti-shock mute wheel, normal use, can go back and forth on the smooth hard surface 100,000 times without losing any function.</p>	Nos.	4	57,004	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
146		<p>Providing & Placing Single Seater Sofa of Size: 1050*1000*840 (Ht) High Quality PU leather is used. Executive sofa may have curve design with PU Leather finish. Inner frame made up of solid wood and particle board. Sofa shall have black plastic base. 1.Frame: high-quality solid wood frame, moisture content <= 9%, no rotten wood, no insect erosion, hard material, strong load-bearing capacity;</p> <p>2.sponge: density > 50KG / M3 shaped sponge, healthy and odorless, resilience of more than 40%, HD test lasting deformation;</p> <p>3.PU leather: soft and elastic texture and beautiful appearance and other advantages;</p> <p>4.sitting height 420MM, armrest height 660MM, foot height 70MM.</p>	Nos.	2	63,839	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
147		<p>Providing & Placing Single Seater Sofa of Size: 2350*1000*840 (Ht) High Quality PU leather is used. Executive sofa may have curve design with PU Leather finish. Inner frame made up of solid wood and particle board. Sofa shall have black plastic base. 1.Frame: high-quality solid wood frame, moisture content <= 9%, no rotten wood, no insect erosion, hard material, strong load-bearing capacity;</p> <p>2.sponge: density > 50KG / M3 shaped sponge, healthy and odorless, resilience of more than 40%, HD test lasting deformation;</p> <p>3.PU leather: soft and elastic texture and beautiful appearance and other advantages;</p> <p>4.sitting height 420MM, armrest height 660MM, foot height 70MM.</p>	Nos.	1	95,481	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						






148		Providing & Placing Coffee table of Size: 1400*700*386 (Ht). Coffee Table top will be made up of Artificial Marble and understructure is made up of Titanium Coated Stainless Steel Legs.	Nos	1	37,326	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
149		Providing & Placing Corner Coffee table of Size: 560*560*420 (Ht). Coffee Table is having irregular shape with black tempered glass top, coffee table shall have understructure with PVC body. 1. Frame: using high-quality solid wood frame, moisture content =< 10%, no rotten wood, no erosion, hard material, strong load-bearing capacity 2. PVC Leather: gray water-based PVC leather, with comfortable and breathable, solid wear-resistant, with anti-static, imitation slip, anti-aging and other effects 3. Sponge: the use of high-density high rebound sponge, seat sponge density of >=30.0 or more, rebound performance >= 40% or more, not easy to deformation 4. Glass: black tempered glass is used.	Nos	2	20,317	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
B	MD CABIN						
150		Providing & Placing MD Table of Size: 3400*2500*760 (Ht). Table top is 60mm thick with both side smooth curved edge. Table top shall have PU Leather pad. Modesty panel is in curved shape. Side storage will have curved shape on all four vertical edges. Substrate: Medium fiberboard. Using E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; Edge: Using high-quality MDF substrate and solid wood veneer edging, effectively prevent moisture intrusion; Surface: the surface is bright and smooth, glossy, clear wood grain, the overall effect is good; Paint: water-based wood environmentally friendly paint, beautiful, non-discoloring, smooth and wear-resistant, odorless, benzene content (benzene, toluene, ethylbenzene, xylene and xylene) for 50mg/kg, free formaldehyde content of 5mg/kg. Hardware: DTC hidden damping guide 1.Anti-fatigue: 100,000 times opening and closing, of which 30,000 openings need to pull the drawer fully open to the end. 2.Static load: 30kg extra load with drawer fully pulled open. 3.Side load: 20kg (to ensure that the panels are able to withstand overloading situations). DTC Hinges: 1. Fatigue Test: 200,000 openings. 2. Static Load: 30kg at 45° opening angle. 3. Dynamic Load: 20kg vertically. 4. Steel frame: square steel tube wall thickness 2.5mm, black sandblasted	Nos	1	10,41,749	Not Quoted	Not Quoted
151		Providing & Placing MD Back Storage of Size: 4330*400*1935 (Ht). Executive Cabinet with Wood Doors & Shelves, Wardrobe with Aluminum Alloy Frame Glass Door Blum Flip Doors. Substrate: Medium fiberboard. Using E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; Edge: Using high-quality MDF substrate and solid wood veneer edging, effectively prevent moisture intrusion; Surface: the surface is bright and smooth, glossy, clear wood grain, the overall effect is good; Paint: water-based wood environmentally friendly paint, beautiful, non-discoloring, smooth and wear-resistant, odorless, benzene content (benzene, toluene, ethylbenzene, xylene and xylene) for 50mg/kg, free formaldehyde content of 5mg/kg. Hardware: DTC hidden rebound guide 1.Anti-fatigue: 100,000 openings and closings, of which 30,000 openings require the drawer to be pulled fully open to the end. 2.Static load: 30kg extra load with drawer fully pulled open. 3.Side load: 20kg (to ensure that the panels are able to withstand overloaded scenarios). DTC Hinges: 1. Fatigue Test: 200,000 openings. 2. Static Load: 30kg at 45° opening angle. 3. Dynamic Load: 20kg vertically. 4. Steel frame: square steel pipe wall thickness 2.5mm, black sandblasted surface.	Nos	1	10,41,749	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
152		Providing & Placing MD Chair of Size: 715*675*1224(Ht). High Back Executive Chair with Half Leather Finish. Donati Synchronized Tilting Mechanism with 4-Position Locking Class-3 Gas Lift, Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors Leather: head layer cowhide, thickness>2mm. Sponge: Density>50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness>10cm, to ensure that the buttocks have enough sinking depth, HD test never deformed. Chassis: synchronized tilting chassis ("DONATI" brand), four gears of adjustment, hand-cranked back tension adjustment system. Pneumatic rod: gas rod lifting stroke 8CM, using domestic Wright pneumatic rod, 120,000 times lifting and rotating test, 2.0MM thick-walled tube, genuine steel seal certification. Chair feet: aluminum alloy die-casting chair feet, radius 350mm, surface fine polishing treatment, one-piece molding. Chair Wheel: R60mm PU wheel anti-shock mute wheel, normal use, can go back and forth on the smooth hard surface 100,000 times without losing any function.	Nos	1	83,399	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
153		Providing & Placing MD Visitor Chair of Size: 684*675*1044 (Ht). Medium Back Executive Chair with Half Leather Finish Donati Synchronized Tilting Mechanism with 4-Position Locking, Class-3 Gas Lift, Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors Leather: head layer cowhide, thickness>2mm. Sponge: Density>50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness>10cm, to ensure that the buttocks have enough sinking depth, HD test never deformed. Chassis: synchronized tilting chassis ("DONATI" brand), four gears of adjustment, hand-cranked back tension adjustment system. Pneumatic rod: gas rod lifting stroke 8CM, using domestic Wright pneumatic rod, 120,000 times lifting and rotating test, 2.0MM thick-walled tube	Nos	4	76,120	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							

154		<p>Providing & Placing Three Seater Sofa of Size: 2340*860*910 (Ht) High Quality PU leather is used.</p> <p>1.Frame: high-quality solid wood frame, moisture content =< 9%, no rotten wood, no insect corrosion, hard material, strong load-bearing capacity; 2.PU Leather: comfortable and breathable, solid wear-resistant, with anti-static, anti-slip, anti-aging effect; 3.the internal material: high-density high rebound sponge, sponge density to >=30.0 above, rebound performance >=40% above, not easy to deform; 4.sofa feet: smooth and uniform spraying, color and luster uniformity, no flow hanging, pimples, Zou leather, delamination and other phenomena Executive sofa may have upholstered with PU Leather finish. Inner frame made up of solid wood.</p>	Nos	1	83,449	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
155		<p>Providing & Placing Three Seater Sofa of Size: 980*860*910 (Ht) High Quality PU leather is used.</p> <p>1.Frame: high-quality solid wood frame, moisture content =< 9%, no rotten wood, no insect corrosion, hard material, strong load-bearing capacity; 2.PU Leather: comfortable and breathable, solid wear-resistant, with anti-static, anti-slip, anti-aging effect; 3.the internal material: high-density high rebound sponge, sponge density to >=30.0 above, rebound performance >=40% above, not easy to deform; 4.sofa feet: smooth and uniform spraying, color and luster uniformity, no flow hanging, pimples, Zou leather, delamination and other phenomena Executive sofa may have upholstered with PU Leather finish. Inner frame made up of solid wood.</p>	Nos	2	53,363	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
156		<p>Providing & Placing Single Seater Arm Chair of Size: 730*870*750 (Ht) High Quality PU leather is used.</p> <p>1. Framework: High quality solid wood frame with a moisture content of ≤ 9%, free from decaying wood, insect erosion, hard material, and strong load-bearing capacity; 2. Leather: comfortable, breathable, solid, wear-resistant, anti-static, anti-aging and other effects; 3. Internal material: High density and high rebound sponge, with a sponge density of ≥ 30.0 and a rebound performance of ≥ 40%, not easily deformed; 4. Sofa legs: electroplated stainless steel armrests; Simple and elegant design; Executive sofa may have upholstered with PU Leather finish.</p>	Nos	2	56,160	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
157		<p>Providing & Placing Single Seater Arm Chair of Size: 830*1100*900 (Ht)</p> <p>1. Framework: High quality solid wood frame with a moisture content of ≤ 9%, free from decaying wood, insect erosion, hard material, and strong load-bearing capacity; 2. Leather: The top layer of cowhide has an outstanding texture, natural and soft touch, comfortable and breathable, with a dry rubbing color fastness of 500 times, and a medium thick leather thickness of 1.2-1.5mm; 3. Internal material: High density and high rebound sponge, with a sponge density of ≥ 30.0 and a rebound performance of ≥ 40%, not easily deformed; 4. Sofa legs: Aluminum alloy die cast 4-star legs, solid and stable structure, with a long service life;</p>	Nos	1	1,16,509	Not Quoted	Not Quoted
158		<p>Providing & Placing Stool of Size: 660*520*520 (Ht)</p> <p>1. Framework: High quality solid wood frame with a moisture content of ≤ 9%, free from decaying wood, insect erosion, hard material, and strong load-bearing capacity; 2. Leather: The top layer of cowhide has an outstanding texture, natural and soft touch, comfortable and breathable, with a dry rubbing color fastness of 500 times, and a medium thick leather thickness of 1.2-1.5mm; 3. Internal material: High density and high rebound sponge, with a sponge density of ≥ 30.0 and a rebound performance of ≥ 40%, not easily deformed; 4. Sofa legs: Aluminum alloy die cast 4-star legs, solid and stable structure, with a long service life;</p>	Nos	1	35,800	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
159		<p>Providing & Placing Coffee table of Size: 800*800*360 (Ht). Coffee Table top will be made up of Artificial Marble and understructure is made up of Stainless Steel Legs.</p>	Nos	2	48,867	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
160		<p>Providing & Placing Corner Coffee table of Size: 560*560*420 (Ht). Coffee Table is having irregular shape with black tempered glass top, coffee table shall have understructure with PVC body.</p> <p>1. Frame: using high-quality solid wood frame, moisture content =< 10%, no rotten wood, no erosion, hard material, strong load-bearing capacity 2. PVC Leather: gray water-based leather, with comfortable and breathable, solid wear-resistant, with anti-static, imitation slip, anti-aging and other effects 3. Sponge: the use of high-density high rebound sponge, seat sponge density of >=30.0 or more, rebound performance >= 40% or more, not easy to deformation 4. Glass: black tempered glass is used.</p>	Nos	2	20,317	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
C	DC CABIN						








161		<p>Providing and Placing L Shaped Chairman Table with Ring Shaped Leg and Fixed Side Storage. Table shall have overall size of 2800(W) x 2200(L) x 760(H)mm. Table top is having 60mm thickness. Table top is made up of MDF with veneer and PU Leatherite pad on desktop. Special design fiber glass leg. Rotatable wirebox for electrical mangagement. Drawers will have finger print lock. Side storage top will be covered with PU leather. Side cabinet will have LED lights in display area with tempered glass. Basement: MDF, E1 MDF with density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emission of 0.2mg/L. Edge banding: using density fiberboard base material and solid wood veneer edge banding, prevent water vapor invasion. Leg is made up of Special fiber glass, Made of recyclable plastic of high quality and very firm. Fiberglass foot: using fiber, tree ester, lime powder, layer by layer accumulated.</p> <p>Steel frame: square steel tube wall thickness 2.5mm, black sandblasted surface. Side Credenza is integrated with Rotatable electric multifunctional sockets, convenient for power supply. Side Credenza top panel shall be covered by leatherite.</p> <p>Side Credenza is having space for CPU, Credenza shall have rebound drawers with fingerprint lock. Side Credenza shall have LED light with Tempered glass display area. Table shall have Smart Lock, Blum Damping Slide Rail, Blum Hinge, LED Light.</p>	1	1	9,75,958	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
162		<p>Providing and Placing Executive Back Cabinet with Wood Doors & Shelves. Back Cabinet shall have a size of 3320(W) x 450(D) x 2035(H)mm. Back Storage shall have Full size aluminum alloy handle. LED light strip in display area. Sliding cloth hanger in Side storage with openable shutter. Push and open drawers. Cabinet shall be made of E1 MDF with density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emission of 0.2mg/L. Edge banding: using density fiberboard base material and solid wood veneer edge banding, prevent water vapor invasion. Paint: waterborne wood environmental protection paint, benzene series content (benzene, toluene, ethyl benzene, xylene sum) is 50mg/kg, free formaldehyde content is 5mg/kg. Drawers shall be push and open type, without handle. Static load: 30kg extra load when the drawer is fully opened. 3. Side load: 20kg (to ensure that the panel can withstand excessive load). Blum hinge: 1. Fatigue test: 200000 open and close. 2. Static load: load 30kg at 45° opening Angle. 3. Dynamic load: 20kg in the vertical direction. Blum Damping Slide Rail, Blum Hinge, LED Light. Cabinet shall have LED light in display area with remote operation. the direction of Engineer-In-Charge.</p>					
MAKE: HNI, Indo innovations, Featherlite or equivalent							
163		<p>Providing and Placing High Back Executive Chair with Half Leather Finish. Chair Shall have size of 650*740*1205(ht)mm.</p> <p>High Back Chair shall be upholstered with half leather with headrest. Chair shall have Class-3 Gas Lift. Sponge: Density-50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth, and the HD test will never deform.</p> <p>Chassis: Synchronous tilting chassis ("DONATI" brand), four-speed adjustment, manual back tension adjustment system.</p> <p>Pneumatic rod: air rod lifting stroke 8CM, 120,000 lifting and rotating tests, 2.0MM thick-walled pipe.</p> <p>Chair foot: Aluminum die-casting chair foot, radius 350mm, surface finish polished, one-piece molding.</p> <p>Chair wheel: R60mm PU wheel shockproof and silent wheel, normal use, can go back and forth 100,000 times on a smooth hard surface without losing any function.</p>	Nos	1	70,043	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
164		<p>Providing and Placing Medium Back Visitor Chair with Half Leather Finish. Chair Shall have size of 690*740*1025(ht)mm.</p> <p>Medium Back Chair shall be upholstered with half leather without headrest. Chair shall have Class-3 Gas Lift. Sponge: Density-50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth, and the HD test will never deform.</p> <p>Chassis: Synchronous tilting chassis ("DONATI" brand), four-speed adjustment, manual back tension adjustment system.</p> <p>Pneumatic rod: air rod lifting stroke 8CM, 120,000 lifting and rotating tests, 2.0MM thick-walled pipe.</p> <p>Chair foot: Aluminum die-casting chair foot, radius 350mm, surface finish polished, one-piece molding.</p> <p>Chair wheel: R60mm PU wheel shockproof and silent wheel, normal use, can go back and forth 100,000 times on a smooth hard surface without losing any function.</p>	Nos	4	59,308	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
165		<p>Providing & Placing Three Seater Sofa of Size: 1910*770*830 (Ht)</p> <p>High Quality PU leather is used, made of solvent-free, environmentally friendly production process, does not contain dimethylformamide, through ten years of hydrolysis resistance test and all-weather resistance test. Executive sofa may have upholstered with PU Leather finish. Inner frame made up of solid wood and particle board. Sofa shall have black plastic base.</p>	Nos	1	75,021	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
166		<p>Providing & Placing Three Seater Sofa of Size: 780*770*830 (Ht)</p> <p>High Quality PU leather is used, made of solvent-free, environmentally friendly production process, does not contain dimethylformamide, through ten years of hydrolysis resistance test and all-weather resistance test. Executive sofa may have upholstered with PU Leather finish. Inner frame made up of solid wood and particle board. Sofa shall have black plastic base.</p>	Nos	2	40,421	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
167		<p>Providing & Placing Single Coffee Table of Size: 1360*700*400 (Ht)</p> <p>Rectangular Coffee Table with Wood Veneer Tabletop & Dark Grey Steel Legs.</p>	Nos	1	29,374	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
D REST AREA FOR CHAIRMAN, MD & DC CABIN							
168		<p>Providing & Placing Three Seater Sofa of Size: 2360*870*730 (Ht)</p> <p>1. Framework: High quality solid wood frame with a moisture content of ≤ 10%, free from decaying wood, erosion, hard material, and strong load-bearing capacity;</p> <p>2. PU Leather: comfortable, breathable, solid, wear-resistant, anti-static, anti-aging and other effects;</p> <p>3. Sponge: High density and high rebound sponge, with a seat sponge density of ≥ 30.0 and a rebound performance of ≥ 40%, not easily deformed;</p> <p>4. Sofa legs: Aluminum alloy die cast sofa legs, with a delicate appearance and exquisite details;</p>	Nos	3	78,608	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							








169		Providing & Placing Single Coffee Table of Size: 800*800*368 (Ht) Square Coffee Table with Lacquer finish Tabletop & Dark Grey Steel Legs. Substrate: E1 grade medium-density fiberboard is used, with water content controlled within the range of 3.0-13.0% and density of the boards controlled at 0.65-0.8g/cm ³ , which is in line with the technical requirements of the national standards; formaldehyde emission is less than 0.124mg/m ³ Surface: bright and smooth surface, good overall effect Product features: coffee table feet made of high-quality steel pipe, unique shape, beautiful, strong stability	Nos	2	16,126	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
170		Providing & Placing Single Coffee Table of Size: 500*500*368 (Ht) Square Coffee Table with Lacquer finish Tabletop & Dark Grey Steel Legs. Substrate: E1 grade medium-density fiberboard is used, with water content controlled within the range of 3.0-13.0% and density of the boards controlled at 0.65-0.8g/cm ³ , which is in line with the technical requirements of the national standards; formaldehyde emission is less than 0.124mg/m ³ Surface: bright and smooth surface, good overall effect Product features: coffee table feet made of high-quality steel pipe, unique shape, beautiful, strong stability	Nos	1	9,095	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
E SECRETARY							
171		Providing & Placing Manager L Shape Table of Size: 2100*1920*750 (Ht). L Shaped Manager Table with Fixed Side Storage. Table top shall have 50mm thickness. Table top shall have PU Leather pad. Flip Wire Box on the Tabletop With 2 Power and 2 Data Socket. Sliding Door at Side Storage with Soft-Closing Function and Number Lock. Substrate: E1 grade medium density fiberboard and E0 grade particleboard are used. The water content of MDF is controlled within the range of 3.0-13.0%, and the density of the boards is controlled within the range of 0.65-0.8g/cm ³ , which is in line with the national standards and technical requirements; the formaldehyde emission rate is less than 0.124mg/m ³ and the formaldehyde and better than the national standards. Particleboard is E0 grade base material standard, formaldehyde emission is less than 0.025mg/m ³ . Banding: using high-quality PVC edging, with hot melt adhesive by 200 °C high temperature suppression in the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent the intrusion of moisture, formaldehyde emission is less than 1.5mg / L (desiccator method), better than the national standard Hardware: hinges. 1. Anti-fatigue test: 40,000 times. 2.Vertical static load: 15kg. 3. Water calming load: 20kg. 4.Corrosion resistance: 100h. 5.Salt spray resistance: 18h Product features: the product emphasizes simple lines, calm and modern	Nos	3	92,933	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
172		Providing & Placing Manager Back Credenza of Size: 2000*400*750 (Ht) Substrate: E0 grade boards, using E0 grade substrate standards, formaldehyde emissions less than 0.025mg/m ³ Banding: the use of high-quality PVC edging, with hot melt adhesive by 200 °C high temperature suppression in the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent the intrusion of moisture, formaldehyde emission is less than 1.5mg / L (desiccator method), better than the national standard Hardware: DTC powerless hinge: 1. Durability: more than 80,000 times. 2.Vertical static load can be overloaded 30kg. 3. Water calming load can be overloaded 70kg. 4. Corrosion resistance: 18h					
MAKE: HNI, Indo innovations, Featherlite or equivalent							
173		Providing & Placing High Back Chair of Size: 640*680*1200 (Ht) Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. High Back Chair with Mesh Back & Fabric Seat with Adjustable Headrest. Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface, 3D Adjustable Armrest with PU Soft Surface Synchronized Tilting & Auto Tension Control Mechanism with 4-Position Locking and Seat Sliding Function. Black Nylon 5-Star Base with Nylon Castors Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence. Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding. Chassis: safe explosion-proof chassis, self-loading mechanism, four-position adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become. Pneumatic rod: gas rod lifting stroke 10CM. Chair feet: injection molded nylon chair feet, radius 345mm, one-piece molding. Chair wheels: 60MM nylon wheels, normal use, can go back and forth on smooth hard surface 100,000 times without losing any function	Nos	3	17,923	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
174		Providing & Placing High Back Chair of Size: 640*670*980 (Ht). Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface. Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking and Black Nylon 5-Star Base with Nylon Castors Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame. Adjustable Lumbar Support with PU Soft Surface Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking. Black Nylon 5-Star Base with Nylon Castors Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence. Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding. Chassis: safe explosion-proof chassis, multi-step adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become. Pneumatic rod: gas rod lifting stroke 10CM. Chair feet: injection molded nylon chair feet, radius 350mm, one-piece molding	Nos	9	13,320	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
F CABIN 1 TO 15							

175		<p>Providing & Placing Secretary Cabin Table of Size: 1800*1670*760 (Ht). L Shaped Executive Table with Fixed Side Storage, Including Multi-Functional Socket with 2 Power, 1 VGA, 1 Data, 1 Phone.</p> <p>Artificial Leather Pad at the Tabletop and Lock at Side Storage. Table top thickness is 52mm with beveled edge. Table shall have leg in 60mm thickness with aluminium alloy profile on the edges of 60mm width. Side storage shall have aluminium alloy handle in full length.</p> <p>Substrate: E1 grade medium density fiberboard and E0 grade particleboard. The water content of MDF is controlled within the range of 3.0-13.0%, and the density of the boards is controlled within the range of 0.65-0.8g/cm³, which is in line with the national standards and technical requirements; the formaldehyde emission rate is less than 0.124mg/m³ (</p> <p>Edge: using high-quality PVC edging, with hot melt adhesive by 200 °C high temperature suppression in the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent the intrusion of moisture, formaldehyde emission is less than 1.5mg / L (desiccator method), better than the national standard,</p> <p>Surface: bright and smooth surface, glossy, clear wood grain, good overall effect</p> <p>Hardware: Colcano damping hinge. 1. Anti-fatigue test: 40,000 times 2 Vertical static load: 15kg</p>	Nos	15	1,14,071	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
176		<p>Providing & Placing Manager Back Credenza of Size: 2000*400*750 (Ht)</p> <p>Substrate: E0 grade boards, using E0 grade substrate standards, formaldehyde emissions less than 0.025mg/m³</p> <p>Banding: the use of high-quality PVC edging, with hot melt adhesive by 200 °C high temperature suppression in the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent the intrusion of moisture, formaldehyde emission is less than 1.5mg / L (desiccator method), better than the national standard</p> <p>Hardware: DTC powerless hinge: 1. Durability: more than 80,000 times. 2. Vertical static load can be overloaded 30kg. 3. Water calming load can be overloaded 70kg. 4. Corrosion resistance: 18h</p>					
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
177		<p>Providing & Placing High Back Chair of Size: 610*670*1160 (Ht)</p> <p>Mesh: nylon special mesh, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the anti-fouling treatment. High Back Chair with Mesh Back & Fabric Seat with 3D Lifting headrest. Black PA Frame with Adjustable Lumbar Support 3d Lifting Armrest.</p> <p>Synchronized Tilting & Auto Tension Control Mechanism with 4-Position Locking, Seat Sliding Function with Class-3 Gas Lift</p> <p>Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors</p> <p>Sponge: shaped cotton seat cushion, healthy and odorless, 7 centimeters thick, to ensure that the buttocks have enough sinking depth.</p> <p>Crankwood board: seat cushion crankwood board for 14MM multi-layer crankwood board hot pressing molding.</p> <p>Chassis: safe explosion-proof chassis, self-supporting tilting chassis, tilting strength of 3-step adjustment, tilting angle of 4-step adjustment, seat depth sliding 5-step adjustment, load-bearing 102KG under the reciprocating tensile test, 4MM steel plate stamping and become.</p> <p>Pneumatic rod: gas rod lifting stroke 10CM.</p> <p>Chair feet: polished aluminum alloy feet, radius 350MM, one-piece molding.</p> <p>Chair wheel: 60MM-PU nylon wheel, normal use, can go back and forth on smooth hard surface 100,000 times without losing any function. Seat cushion sliding 50MM, adapt to different height and posture people.</p>	Nos	15	25,160	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
178		<p>Providing & Placing High Back Chair of Size: 640*670*980 (Ht). Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface. Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking and Black Nylon 5-Star Base with Nylon Castors</p> <p>Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame.</p> <p>Adjustable Lumbar Support with PU Soft Surface</p> <p>Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking. Black Nylon 5-Star Base with Nylon Castors</p> <p>Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence.</p> <p>Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding.</p> <p>Chassis: safe explosion-proof chassis, multi-step adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become.</p> <p>Pneumatic rod: gas rod lifting stroke 10CM.</p> <p>Chair feet: injection molded nylon chair feet, radius 350mm, one-piece</p>	Nos	30	13,320	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
179		<p>Providing & Placing Three Seater Sofa of Size: 720*720*780 (Ht)</p> <p>1. Framework: High quality solid wood frame with a moisture content of ≤ 10%, free from decaying wood, erosion, hard material, and strong load-bearing capacity;</p> <p>2. PVC Leather: comfortable, breathable, solid, wear-resistant, anti-static, anti-aging and other effects;</p> <p>3. Sponge: High density and high rebound sponge, with a seat sponge density of ≥ 30.0 and a rebound performance of ≥ 40%, not easily deformed;</p> <p>4. Sofa legs: Aluminum alloy die cast sofa legs, with a delicate appearance and exquisite details;</p>	Nos	28	29,422	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
G	ASSISTANT	MAKE: HNI, Indo innovations, Featherlite or equivalent					

180		<p>Manager Table with Fixed Side Storage. Table top shall have 25mm thickness with bevelled edges. A Shaped White Steel Pipe Legs with Silver Aluminum Alloy Cover, Including Modesty Panel. Melamine finish desktop with bevelled edge.</p> <p>Substrate: Particleboard using E0 grade substrate standards, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³;</p> <p>Surface: smooth, good overall effect;</p> <p>Edge: the use of high-quality particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressing on the edge, effectively preventing the intrusion of water and gas; beveled edges using high-quality kraft paper edge sealing strip;</p> <p>Hardware:</p> <p>Steel foot: round tube φ40*1.5+square tube 50*25*2 assembled into the foot; Crossbar: 40*25*1.2 tie rod, hole distance error ±0.3mm, straight edges and corners without burrs.</p> <p>three section rail: 1. operating force: when the bearing force M <40kg is, thrust or tension ≤ 5kg. 2. durability: more than 40,000 times; 3. Vertical downward static load of 40kg. 4. Horizontal lateral static load of 20kg.</p> <p>Damping Hinge:1.Fatigue test:40,000 times.2.Vertical static load:15kg.3.Water calming load:15kg.</p>	Nos	15	60,153	Not Quoted	Not Quoted
181		<p>MAKE: HNI, Indo innovations, Featherlite or equivalent</p> <p>Providing & Placing High Back Chair of Size: 640*670*980 (Hh). Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface. Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking and Black Nylon 5-Star Base with Nylon Castors</p> <p>Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame. Adjustable Lumbar Support with PU Soft Surface</p> <p>Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking. Black Nylon 5-Star Base with Nylon Castors</p> <p>Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence.</p> <p>Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding.</p> <p>Chassis: safe explosion-proof chassis, multi-step adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become.</p> <p>Pneumatic rod: gas rod lifting stroke 10CM.</p> <p>Chair feet: injection molded nylon chair feet, radius 350mm, one-piece</p>	Nos	15	15,753	Not Quoted	Not Quoted
H	Jr EXE. CUBICAL	MAKE: HNI, Indo innovations, Featherlite or equivalent					
182		<p>Manager Table with Fixed Side Storage. Table top shall have 25mm thickness with bevelled edges. A Shaped White Steel Pipe Legs with Silver Aluminum Alloy Cover, Including Modesty Panel. Melamine finish desktop with bevelled edge.</p> <p>Substrate: Particleboard using E0 grade substrate standards, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³;</p> <p>Surface: smooth, good overall effect;</p> <p>Edge: the use of high-quality particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressing on the edge, effectively preventing the intrusion of water and gas; beveled edges using high-quality kraft paper edge sealing strip;</p> <p>Hardware:</p> <p>Steel foot: round tube φ40*1.5+square tube 50*25*2 assembled into the foot; Crossbar: 40*25*1.2 tie rod, hole distance error ±0.3mm, straight edges and corners without burrs.</p> <p>three section rail: 1. operating force: when the bearing force M <40kg is, thrust or tension ≤ 5kg. 2. durability: more than 40,000 times; 3. Vertical downward static load of 40kg. 4. Horizontal lateral static load of 20kg.</p> <p>Damping Hinge:1.Fatigue test:40,000 times.2.Vertical static load:15kg.3.Water calming load:15kg.</p>	Nos	7	59,391	Not Quoted	Not Quoted
183		<p>MAKE: HNI, Indo innovations, Featherlite or equivalent</p> <p>Providing & Placing High Back Chair of Size: 610*670*1160 (Hh)</p> <p>Mesh: nylon special mesh, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the anti-fouling treatment. High Back Chair with Mesh Back & Fabric Seat with 3D Lifting headrest. Black PA Frame with Adjustable Lumbar Support 3d Lifting Armrest.</p> <p>Synchronized Tilting & Auto Tension Control Mechanism with 4-Position Locking. Seat Sliding Function with Class-3 Gas Lift</p> <p>Aluminum Alloy 5-Star Base with Reinforced PU Mute Castors</p> <p>Sponge: shaped cotton seat cushion, healthy and odorless, 7 centimeters thick, to ensure that the buttocks have enough sinking depth.</p> <p>Crankwood board: seat cushion crankwood board for 14MM multi-layer crankwood board hot pressing molding.</p> <p>Chassis: safe explosion-proof chassis, self-supporting tilting chassis, tilting strength of 3-step adjustment, tilting angle of 4-step adjustment, seat depth sliding 5-step adjustment, load-bearing 102KG under the reciprocating tensile test, 4MM steel plate stamping and become.</p> <p>Pneumatic rod: gas rod lifting stroke 10CM.</p> <p>Chair feet: polished aluminum alloy feet, radius 350MM, one-piece molding.</p> <p>Chair wheel: 60MM-PU nylon wheel, normal use, can go back and forth on smooth hard surface 100,000 times without losing any function. Seat cushion sliding 50MM, adapt to different height and posture people.</p>	Nos	7	17,923	Not Quoted	Not Quoted
184		<p>MAKE: HNI, Indo innovations, Featherlite or equivalent</p> <p>Providing & Placing High Back Chair of Size: 640*670*980 (Hh). Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface. Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking and Black Nylon 5-Star Base with Nylon Castors</p> <p>Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame. Adjustable Lumbar Support with PU Soft Surface</p> <p>Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking. Black Nylon 5-Star Base with Nylon Castors</p> <p>Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence.</p> <p>Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding.</p> <p>Chassis: safe explosion-proof chassis, multi-step adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become.</p> <p>Pneumatic rod: gas rod lifting stroke 10CM.</p> <p>Chair feet: injection molded nylon chair feet, radius 350mm, one-piece</p>	Nos	14	13,320	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					

185		<p>Providing & Placing Storage of Size: 1600 (800*800)*400*750 (Ht). Storage Shall have openable doors with Storage shall have Aluminum alloy edge design.</p> <p>Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m³</p> <p>Using high-quality PVC sealing, with hot melt adhesive by 200 °C high temperature pressed on the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent water intrusion, formaldehyde emission is less than 1.5mg /L (desiccator method), better than the national standard.</p> <p>Hardware:</p> <p>Damping Hinges:</p> <ol style="list-style-type: none"> 1. Anti-fatigue test: 40,000 times 2. Vertical static load: 15kg 3. Water calming load: 20kg <p>DTC black large three sections: DTC three-section ball internal suction damping guideway</p> <ol style="list-style-type: none"> 1. Operating force: when the load capacity M < 40kg, the thrust or pull force ≤ 5kg 2. Durability: 40,000 times of switching times. 3. Vertical downward static load: 15kg 4. Horizontal lateral static load: 20kg <p>Product Features:</p>	Nos	7	24,455	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
186		<p>Providing & Placing Storage of Size: 1200 *400*750 (Ht). Storage Shall have openable doors with Storage shall have Aluminum alloy edge design.</p> <p>Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m³</p> <p>Using high-quality PVC sealing, with hot melt adhesive by 200 °C high temperature pressed on the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent water intrusion, formaldehyde emission is less than 1.5mg /L (desiccator method), better than the national standard.</p> <p>Hardware:</p> <p>Damping Hinges:</p> <ol style="list-style-type: none"> 1. Anti-fatigue test: 40,000 times 2. Vertical static load: 15kg 3. Water calming load: 20kg <p>DTC black large three sections: DTC three-section ball internal suction damping guideway</p> <ol style="list-style-type: none"> 1. Operating force: when the load capacity M < 40kg, the thrust or pull force ≤ 5kg 2. Durability: 40,000 times of switching times. 3. Vertical downward static load: 15kg 4. Horizontal lateral static load: 20kg <p>Product Features:</p>	Nos	7	25,310	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
I	BOARD ROOM						
187		<p>Providing and Placing Board Room Table of size 6400*2000*760(ht)mm. Substrate: medium fiberboard and particleboard. E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; particleboard using E0 grade substrate standard, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³.</p> <p>Surface material: solid wood veneer veneer;</p> <p>Veneer: plate using finish paper, wear-resistant, not easy to change color.</p> <p>Edge sealing: the use of high-quality MDF substrate and solid wood veneer edge sealing, effective prevention of moisture intrusion;</p> <p>Edge sealing: using high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressed on the edge, effectively prevent moisture intrusion;</p> <p>Surface: the surface is bright and smooth, glossy, with clear wood grain and good overall effect;</p> <p>Paint: water-based wood environmentally friendly paint, beautiful, non-discoloring, smooth and wear-resistant, odorless, benzene content (benzene, toluene, ethylbenzene, xylene and xylene) for 50mg/kg, free formaldehyde content of 5mg/kg.</p> <p>Skimming: Adopting high quality black nano-skin with small lychee pattern, purely handmade skinning process.</p> <p>Hardware:</p>	Nos	1	8,82,292	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
188		<p>Providing and Placing Medium Back Visitor Chair with Half Leather Finish. Chair Shall have size of 690*740*1025(ht)mm.</p> <p>Medium Back Chair shall be upholstered with half leather without headrest. Chair shall have Class-3 Gas Lift, Sponge: Density:50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth, and the HD test will never deform.</p> <p>Chassis: Synchronous tilting chassis ("DONATI" brand), four-speed adjustment, manual back tension adjustment system.</p> <p>Pneumatic rod: air rod lifting stroke 8CM, 120,000 lifting and rotating tests, 2.0MM thick-walled pipe.</p> <p>Chair foot: Aluminum die-casting chair foot, radius 350mm, surface finish polished, one-piece molding.</p> <p>Chair wheel: R60mm PU wheel shockproof and silent wheel, normal use, can go back and forth 100,000 times on a smooth hard surface without losing any function.</p>	Nos	18	28,890	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
189		<p>Providing and Placing Low Back Chair with PU Leather Finish. Chair Shall have size of 600*700*850(ht)mm.</p> <p>Low Back Chair shall be upholstered with PU leather. Sponge: Density:50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth. Aluminum Alloy Base</p> <p>Chair foot: Aluminum die-casting chair foot, surface finish polished.</p>	Nos	16	26,583	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
J	CONFERENCE ROOM						

190		<p>Providing and Placing Conference Table of size 5400*1700*750(ht)mm. Substrate: medium fiberboard and particleboard. E1 grade medium fiberboard, density of 0.79g/cm³, moisture content of 5%, static bending strength of 37.4MPa, formaldehyde emissions of 0.2mg/L; particleboard using E0 grade substrate standard, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm³, formaldehyde emissions of 0.047mg/m³;</p> <p>Surface material: solid wood veneer;</p> <p>Veneer: plate using finish paper, wear-resistant, not easy to change color.</p> <p>Edge sealing: the use of high-quality MDF substrate and solid wood veneer edge sealing, effective prevention of moisture intrusion;</p> <p>Edge sealing: using high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressed on the edge, effectively prevent moisture intrusion;</p> <p>Surface: the surface is bright and smooth, glossy, with clear wood grain and good overall effect;</p> <p>Paint: water-based wood environmentally friendly paint, beautiful, non-discoloring, smooth and wear-resistant, odorless, benzene content (benzene, toluene, ethylbenzene, xylene and xylene) for 50mg/kg, free formaldehyde content of 5mg/kg.</p> <p>Skimming: Adopting high quality black nano-skin with small lychee pattern, purely handmade skinning process.</p> <p>Multi-functional integrated socket-Including 4 Power Sockets and 4 Data</p>	Nos	1	4,45,175	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
191		<p>Providing and Placing Medium Back Visitor Chair with Half Leather Finish. Chair Shall have size of 690*740*1025(ht)mm.</p> <p>Medium Back Chair shall be upholstered with half leather without headrest. Chair shall have Class-3 Gas Lift. Sponge: Density-50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth, and the HD test will never deform.</p> <p>Chassis: Synchronous tilting chassis ("DONATI" brand), four-speed adjustment, manual back tension adjustment system.</p> <p>Pneumatic rod: air rod lifting stroke 8CM, 120,000 lifting and rotating tests, 2.0MM thick-walled pipe.</p> <p>Chair foot: Aluminum die-casting chair foot, radius 350mm, surface finish polished, one-piece molding.</p> <p>Chair wheel: R60mm PU wheel shockproof and silent wheel, normal use, can go back and forth 100,000 times on a smooth hard surface without losing any function.</p>	Nos	15	27,568	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
K Meeting Room							
192		<p>Providing and Placing Round Meeting Room table of size D1200*750(ht)mm.Round Table with 25mm Melamine Tabletop & Round Steel Base.</p> <p>Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m³</p> <p>Using high-quality PVC sealing, with hot melt adhesive by 200 °C high temperature pressed on the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent water intrusion.</p>	Nos	3	28,507	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
193		<p>Providing and Placing Low Back Chair with PU Leather Finish. Chair Shall have size of 520*540*780(ht)mm.</p> <p>Low Back Chair shall be upholstered with PU leather. Sponge: Density-50KG/M3 stereotyped sponge, healthy and odorless, with a resilience of more than 40%, and a thickness of more than 10 cm, to ensure that the buttocks have enough sink depth, and the HD test will never deform.</p> <p>Chair foot: Chrome Base with Castors, surface finish polished.</p>	Nos	20	18,438	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
L RECEPTION LOBBY							
194		<p>Providing and Placing Sofa with Fabric Finish. size of 520*540*780(ht)mm.</p> <p>1, frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity;</p> <p>2, sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;</p> <p>3, sofa frame: high-quality steel pipe welded, the surface of the white plastic spray treatment;</p> <p>4, fabric: dry friction (level) ≥ 4 or more, with anti-static, anti-slip and other effects.</p> <p>Sofa with Backrest & Short Screen, Short Screen at Back.</p> <p>The steel frame is made of 20*40MM steel pipe, wall thickness 1.5-1.8MM, 3MM plastic feet, straight edges without burrs, and white plastic spraying on the surface.</p>	Nos	2	88,396	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
195		<p>Providing & Placing Coffee Table of Size: D800*350 (Ht)</p> <p>Round Coffee Table with Lacquer finish Tabletop & Steel Legs.</p> <p>Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m³</p>	Nos	1	16,291	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
196		<p>Providing and Placing Arm Chair with Half Leather Finish. size of 835*750*780(ht)mm</p> <p>1, Frame: high-quality solid wood frame, moisture content ≤ 12%, no rotten wood, no insect corrosion, hard material, strong load-bearing capacity;</p> <p>2, leather: wear-resistant, cold-resistant, aging-resistant, soft and flexible texture and beautiful appearance and other advantages;</p> <p>3, sponge: high-density high rebound sponge, seat sponge density to ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;</p> <p>4, metal molding feet, the surface of the titanium-plating process;</p> <p>4, 4-Star Base</p>	Nos	4	48,874	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							
197		<p>Providing & Placing Coffee Table of Size: D500*450 (Ht)</p> <p>Round Coffee Table with Lacquer finish Tabletop & Steel Legs.</p> <p>Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m³</p>	Nos	2	10,247	Not Quoted	Not Quoted
MAKE: HNI, Indo innovations, Featherlite or equivalent							

198		Providing & Placing Sofa of Size: 1670*780*780 (Ht) Modular Sofa Seat with Fabric Finish, Solid Wood & Particle Board Inner Frame 1, frame: high-quality solid wood frame, moisture content \leq 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity; 2, sponge: high-density high rebound sponge, seat surface sponge density of \geq 35.0 above, rebound performance \geq 40% above, not easy to deform; 3, sofa frame: high-quality steel pipe welded, the surface of the white plastic spray treatment; 4, fabric: dry friction (level) \geq 4 or more, with anti-static, anti-slip and other effects.	Nos	4	58,193	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
199		Providing & Placing table of Size: 1500*600*750 (Ht) Melamine table between 2 sofas. Substrate: Use of E0 grade particleboard, using the E0 grade substrate standards, formaldehyde emission less than 0.025mg/m ³ Using high-quality PVC sealing, with hot melt adhesive by 200 °C high temperature pressed on the edge, cracking resistance is greater than 2 levels, hot and cold cycling test no bulging, no discoloration, no wrinkles, and effectively prevent water intrusion.	Nos	2	21,563	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
M	EXECUTIVE LOUNGE						
200		Providing and Placing Lounge Sofa of. size of 2010*750*800(ht)mm 1, Frame: high-quality solid wood frame, moisture content \leq 12%, no rotten wood, no insect corrosion, hard material, strong load-bearing capacity; 2, PU Leather: wear-resistant, cold-resistant, aging-resistant, soft and flexible texture and beautiful appearance and other advantages; 3, sponge: high-density high rebound sponge, seat sponge density to \geq 35.0 above, rebound performance \geq 40% above, not easy to deform; 4. metal molding feet, the surface of the titanium-plating process;	Nos	5	1,72,500	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
201		Providing and Placing Coffee Table of. size of D450*450(ht)mm Coffee table made of high-quality solid wood frame with lacquer polish on top.	Nos	5	23,690	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
N	WORKSTATIONS						
202		Providing & placing L Shape Workstation of size 1500*1500*1050(ht). Melamine finish desktop with bevelled edge and with Modesty panel. Table top will be 2 colours (White + Blue). Metal slant type leg with "U" Profile leg in Blue & white colour. Melamine finish desktop with double color PVC edge banding. Flip wire cover. Workstation with A Shaped White Steel Pipe Legs and with Silver Aluminum Alloy Cover. 15mm thick felt screen for Pin up fixed on table top with the help of brackets. metal cable tray along with metal wire riser. 3 drawer fixed pedestal on one side with lock arrangement. Flip cover is of 400mm size. Substrate: Particleboard E0 grade substrate standards, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm ³ , formaldehyde emissions of 0.047mg/m ³ ; Surface: smooth, good overall effect; Edge: the use of high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressing on the edge, effectively preventing the intrusion of water and gas; beveled edges using high-quality kraft paper edge sealing strip; Hardware: Steel foot: round tube ϕ 40*1.5+square tube 50*25*2 assembled into the foot; Crossbar: 40*25*1.2 tie rod, hole distance error \pm 0.3mm, straight edges and corners without burrs. Single-sided flap wire box (with damper): open and close about 5000 times	Nos	60	50,134	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
203		Providing & placing L Shape Workstation of size 1200*700*1050(ht). Melamine finish desktop with bevelled edge and with Modesty panel. Table top will be 2 colours (White + Blue). Metal slant type leg with "U" Profile leg in Blue & white colour. Melamine finish desktop with double color PVC edge banding. Flip wire cover. Workstation with A Shaped White Steel Pipe Legs and with Silver Aluminum Alloy Cover. 15mm thick felt screen for Pin up fixed on table top with the help of brackets. metal cable tray along with metal wire riser. 3 drawer fixed pedestal on one side with lock arrangement. Flip cover is of 400mm size. Substrate: Particleboard E0 grade substrate standards, static bending strength of 13.7MPa, moisture content of 6.8%, density of 0.67g/cm ³ , formaldehyde emissions of 0.047mg/m ³ ; Surface: smooth, good overall effect; Edge: the use of high-quality solid wood particle board as the substrate and PVC edge, with hot melt adhesive by 200 °C high temperature pressing on the edge, effectively preventing the intrusion of water and gas; beveled edges using high-quality kraft paper edge sealing strip; Hardware: Steel foot: round tube ϕ 40*1.5+square tube 50*25*2 assembled into the foot; Crossbar: 40*25*1.2 tie rod, hole distance error \pm 0.3mm, straight edges and corners without burrs. Single-sided flap wire box (with damper): open and close about 5000 times	Nos	14	52,440	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
204		Providing & Placing High Back Chair of Size: 640*670*980 (Ht). Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame, Adjustable Lumbar Support with PU Soft Surface. Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking and Black Nylon 5-Star Base with Nylon Castors Mesh: double-layer mesh structure, making the mesh performance comprehensively improved, wear-resistant up to 50,000 rpm, life greatly improved, the surface of the waterproof and anti-fouling treatment. Middle Back Chair with Mesh Back & Fabric Seat with Black PA Back Frame. Adjustable Lumbar Support with PU Soft Surface Height Adjustable Armrest with PU Soft Surface. Synchronized Tilting Mechanism with 3-Position Locking. Black Nylon 5-Star Base with Nylon Castors Sponge: Density > 50KG/M3 stereotyped sponge, healthy and odorless, resilience of more than 40%, thickness of 6cm, to ensure that the hip has enough depth of subsidence. Crankwood board: seat cushion crankwood board for 14mm multi-layer crankwood board hot pressing molding. Chassis: safe explosion-proof chassis, multi-step adjustment, load-bearing 102KG under reciprocating tension test, 4MM steel plate stamping and become. Pneumatic rod: gas rod lifting stroke 10CM. Chair feet: injection molded nylon chair feet, radius 350mm, one-piece	Nos	74	15,132	Not Quoted	Not Quoted
		MAKE: HNI, Indo innovations, Featherlite or equivalent					
O	MOVABLE METAL STORAGE						

205		Providing & Placing Movable Rack with Movable Panel, Manumatic Door 5 Column,each Column including 2 Door at 2 layer with locking facility. Metal Body duly powder coated. Steering Handles in Black colour. Movable body runs on channels mounted on floor.	Nos	1	8,15,534	Not Quoted	Not Quoted	
P STAFF DINING		MAKE: HNI, Indo innovations, Featherlite or equivalent						
206		Providing & placing Cafeteria Table of Size 1200*750*750(Ht). Rectangular Cafeteria Table with Wooden Tabletop & Steel Leg Straight Steel Legs with Aluminum Alloy At the Bottom to Agaist Rusting	Nos	12	35,084	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
207		Providing & placing Cafe Chair of size 530*520*860(Ht). Seat back: Plastic back is made of high strength modified PP material, 4 colors are optional Bow frame: 13MM steel frame, load-bearing 102KG under drop test	Nos	48	4,576	Not Quoted	Not Quoted	
Q LOUNGE AND READING AREA		MAKE: HNI, Indo innovations, Featherlite or equivalent						
208		Providing & Placing Three Seater Sofa of size 1870*830*830(Ht) with Inner side of sofa Fabric Finish and Outside PU Leather Finish. Sofa Inner structure is made up of Solid Wood & Particle Board Inner Frame with Steel Legs. Frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity. Sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;	Nos	1	63,331	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
209		Providing & Placing Three Seater Sofa of size 870*830*830(Ht) with Inner side of sofa Fabric Finish and Outside PU Leather Finish. Sofa Inner structure is made up of Solid Wood & Particle Board Inner Frame with Steel Legs. Frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity. Sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;	Nos	2	34,099	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent				Not Quoted	Not Quoted	
210		Providing & Placing Coffee Table of Size 1200*1200*420(Ht).Square Coffee Table with Half Wooden Texture Half Marble Texture Tabletop Dark Grey Steel Frame with Powder Coating Finish	Nos	1	31,324	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
211		Providing & Placing Single Coffee Table of Size: 500*500*368 (Ht) Square Coffee Table with Lacquer finish Tabletop & Dark Grey Steel Legs. Substrate: E1 grade medium-density fiberboard is used, with water content controlled within the range of 3.0-13.0% and density of the boards controlled at 0.65-0.8g/cm ³ which is in line with the technical requirements of the national standards; formaldehyde emission is less than 0.124mg/m ³ Surface: bright and smooth surface, good overall effect Product features: coffee table feet made of high-quality steel pipe, unique shape, beautiful, strong stability	Nos	2	9,383	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
212		Providing & Placing Executive Sofa of size 2380*1060*820(Ht) Executive Curve shape sofa with PU Leather & Fabric Finish with Aluminum Alloy Legs. Frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity. Sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;	Nos	1	91,941	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
213		Providing & Placing Executive Sofa of size 810*760*850(Ht) Armchair with PU Leather with Steel Legs. Frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity. Sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;	Nos	2	37,779	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
214		Providing & Placing Executive Sofa of size 860*940*980(Ht) Armchair with fabric finish with Solid wood Legs. Frame: high-quality solid wood frame, moisture content ≤ 9%, no rotten wood, no insect erosion, hard material, strong bearing capacity. Sponge: high-density high rebound sponge, seat surface sponge density of ≥ 35.0 above, rebound performance ≥ 40% above, not easy to deform;	Nos	4	53,797	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
215		Providing & Placing Coffee Table of Size: D900*368 (Ht) Round Coffee Table with Lacquer finish Tabletop & Dark Grey Steel Legs. Substrate: E1 grade medium-density fiberboard is used, with water content controlled within the range of 3.0-13.0% and density of the boards controlled at 0.65-0.8g/cm ³ which is in line with the technical requirements of the national standards; formaldehyde emission is less than 0.124mg/m ³ Surface: bright and smooth surface, good overall effect Product features: coffee table feet made of high-quality steel pipe, unique shape, beautiful, strong stability	Nos	1	15,441	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
216		Providing & Placing Coffee Table of Size: D500*418 (Ht) Round Coffee Table with Lacquer finish Tabletop & Dark Grey Steel Legs. Substrate: E1 grade medium-density fiberboard is used, with water content controlled within the range of 3.0-13.0% and density of the boards controlled at 0.65-0.8g/cm ³ which is in line with the technical requirements of the national standards; formaldehyde emission is less than 0.124mg/m ³ Surface: bright and smooth surface, good overall effect Product features: coffee table feet made of high-quality steel pipe, unique shape, beautiful, strong stability	Nos	2	11,500	Not Quoted	Not Quoted	
		MAKE: HNI, Indo innovations, Featherlite or equivalent						
C. ELECTRICAL WORKS								
C.1 WIRING LIGHT FIXTURES & DIMMING WORKS (C1)								
C.1.1 INTERNAL WIRING								

		Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed Medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.					
271.0		Group C	Point	210	1,225	Not Quoted	Not Quoted
		Wiring for group controlled (looped) light point/fan point/exhaust fan point/ call bell point (without independent switch etc.) with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed Medium class PVC conduit, and earthing the point with 1.5 sq. mm FRLS PVC insulated copper conductor single core cable etc. as required.					
218.0		Group C	Point	258	727	Not Quoted	Not Quoted
219.0		Wiring for light/ power plug with 2X4 sq. mm FRLS PVC insulated copper conductor single core cable in surface/ recessed Medium class PVC conduit alongwith 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	meter	7770	283	Not Quoted	Not Quoted
		Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed Medium class PVC conduit as required.					
220.0		2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	meter	2057	197	Not Quoted	Not Quoted
221.0		2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	meter	3292	233	Not Quoted	Not Quoted
222.0		2 X 4 sq. mm + 1 X 4 sq. mm earth wire	meter	10	283	Not Quoted	Not Quoted
223.0		2 X 6 sq. mm + 1 X 6 sq. mm earth wire	meter	10	372	Not Quoted	Not Quoted
		Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface Steel conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
224.0		20 mm	meter	50	197	Not Quoted	Not Quoted
225.0		25 mm	meter	50	217	Not Quoted	Not Quoted
226.0		32 mm	meter	20	276	Not Quoted	Not Quoted
		Supplying and fixing of following sizes of PVC conduit along with accessories in surface/recess including painting in case of surface Medium Class PVC conduit, or cutting the wall and making good the same in case of recessed conduit as required.					
227.0		20 mm	meter	100	108	Not Quoted	Not Quoted
228.0		25 mm	meter	350	123	Not Quoted	Not Quoted
229.0		32 mm	meter	10	156	Not Quoted	Not Quoted
230.0		Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	Each	194	404	Not Quoted	Not Quoted
231.0		Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlet and 2 Nos. 5/ 6 A modular switch, connections etc. as required. (For light plugs to be used in non residential buildings).	Each	167	572	Not Quoted	Not Quoted
232.0		Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 A & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	80	497	Not Quoted	Not Quoted
233.0		Supplying and fixing two module stapped type electronic fan regulator on existing modular plate, modular switch, connections etc. as required.	Each	2	313	Not Quoted	Not Quoted
C.2 LIGHTING FIXTURE AND FANS							
		Supply, Installation, testing and commissioning of following type LED light fixtures on wall/ Ceiling including all fixing accessories such as leads, etc complete as required.					
234.0		Supply, Installation, testing and commissioning of 12 W Recessed DownLighter inbuilt dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Estus Swivel -LETS36R012XW ; Atcom; Scintilla or equivalent.	Nos	48	3136	Not Quoted	Not Quoted
235.0		Supply, Installation, testing and commissioning of 12 W Recessed DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Estus Swivel -LETS36R012XW; Atcom; Scintilla or equivalent.	Nos	176	813	Not Quoted	Not Quoted
236.0		Supply, Installation, testing and commissioning of 6W Recessed DownLighter inbuilt dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Estus Swivel -LETS36R006XW ; Atcom; Scintilla or equivalent.	Nos	18	2962	Not Quoted	Not Quoted
237.0		Supply, Installation, testing and commissioning of 6W Recessed DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Estus Swivel -LETS36R006XW ; Atcom; Scintilla or equivalent.	Nos	42	671	Not Quoted	Not Quoted
238.0		Supply, Installation, testing and commissioning of 15 W Recessed DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Estus Swivel --LETS36R015XW ; Atcom; Scintilla or equivalent.	Nos	93	848	Not Quoted	Not Quoted
239.0		Supply, Installation, testing and commissioning of 5 W Surface round DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Eris Surface Round -LERSBRGR05SW ; Atcom; Scintilla or equivalent.	Nos	14	815	Not Quoted	Not Quoted
240.0		Supply, Installation, testing and commissioning of 35W Cool White LED Batten light with inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Eris Surface Round -LKBU4KVS35XC ; Atcom; Scintilla or equivalent.	Nos	5	842	Not Quoted	Not Quoted
241.0		Supply, Installation, testing and commissioning of 15W Recessed DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Areva Prime -LARP01R015XW; Atcom; Scintilla or equivalent.	Nos	5	842	Not Quoted	Not Quoted
242.0		Supply, Installation, testing and commissioning of 15W Recessed DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Areva Prime -LARP01R015XW or equivalent.	Nos	10	808	Not Quoted	Not Quoted
243.0		Supply, Installation, testing and commissioning of 12 W Surface round DownLighter inbuilt Non dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -Nero Surface Round -LNRO02R012SW ; Atcom; Scintilla or equivalent.	Nos	2	831	Not Quoted	Not Quoted
244.0		Supply, Installation, testing and commissioning of Magnetic Track Slim 2 Mtr. Surface/ Hanging Mounted Complete with All Accessories as required and approved by architect -Jaquar make -LTRKSM2MTRXS ; Atcom; Scintilla or equivalent.	Nos	24	3566	Not Quoted	Not Quoted
245.0		Supply, Installation, testing and commissioning of Power Adapter Complete with All Accessories as required and approved by architect -Jaquar make -LDRVM48V50W ; Atcom; Scintilla or equivalent.	Nos	24	2027	Not Quoted	Not Quoted
246.0		Supply, Installation, testing and commissioning of Magnetic Track Slim Light with dimmable controller 4000K Complete with All Accessories as required and approved by architect -Jaquar make -LTRKSM2MTRXS ; Atcom; Scintilla or equivalent.	Nos	8	1081	Not Quoted	Not Quoted

247.0		Supply, Installation, testing and commissioning of 36W Surface Mount LED Aluminium Profile Light with dimmable controller 4000K Complete with All Accessories required and approved by architect -Jaquar make - LPRS5035X36W ; Atcom; Scintilla or equivalent.	Nos	37	7829	Not Quoted	Not Quoted
248.0		Supply, Installation, testing and commissioning of 36W Surface Mount LED Aluminium Profile Light with non dimmable controller 4000K Complete with All Accessories required and approved by architect -Jaquar make - LPRS5035X36W ; Atcom; Scintilla or equivalent.	Nos	66	4925	Not Quoted	Not Quoted
249.0		Supply, Installation, testing and commissioning of Wall Light with dimmable controller 4000K Complete with All Accessories required and approved by architect -Jaquar make -Wall Light DBL-CHR-MB12021121A ; Atcom; Scintilla or equivalent.	Nos	4	3891	Not Quoted	Not Quoted
250.0		Supply, Installation, testing and commissioning of 24W per metersuspended LED Aluminium Profile Light with dimmable controller 3000K in 1200mm length Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	7	7829	Not Quoted	Not Quoted
251.0		Supply, Installation, testing and commissioning of 24W per meter customised suspended LED Aluminium Profile Light with Non dimmable controller 3000K in 1200mm length Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	7	4925	Not Quoted	Not Quoted
252.0		Supply, Installation, testing and commissioning of 72W per meter Suspended in hexagonal shape LED Aluminium Profile Light with Non dimmable controller 3000K in 600mm length Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	14	15123	Not Quoted	Not Quoted
253.0		Supply, Installation, testing and commissioning of 36W per meter Suspended in hexagonal shape LED Aluminium Profile Light with Non dimmable controller 3000K in 375mm length Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	12	9547	Not Quoted	Not Quoted
254.0		Supply, Installation, testing and commissioning of 24W per meter Suspended in Rectangular shape (7250mmX1250mm) LED Aluminium Profile Light with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	2	104837	Not Quoted	Not Quoted
255.0		Supply, Installation, testing and commissioning of 24W per meter Suspended in Plus shape (2400mmX 2400mm) LED Aluminium Profile Light with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make or equivalent.	Nos	14	19583	Not Quoted	Not Quoted
256.0		Supply, Installation, testing and commissioning of 24W per meter Suspended in Plus shape (2400mmX 2400mm) LED Aluminium Profile Light with non dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	10663	Not Quoted	Not Quoted
257.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make or equivalent.	Nos	1	51397	Not Quoted	Not Quoted
258.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light in 50mm wide & 6.5meter length with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	39345	Not Quoted	Not Quoted
259.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light in 50mm wide & 8.5meter length with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	51397	Not Quoted	Not Quoted
260.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light in 50mm wide & 9 meter length with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	54445	Not Quoted	Not Quoted
261.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light in 50mm wide & 10 meter length with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	61025	Not Quoted	Not Quoted
262.0		Supply, Installation, testing and commissioning of 15W per meter Recessed LED Aluminium Profile Light in 50mm wide & 12 meter length with dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	1	72594	Not Quoted	Not Quoted
263.0		Supply, Installation, testing and commissioning of IP33-rated, suitable for indoor applications with different colours and wattages with Standard 5.0 mtr roll with non dimmable controller 3000K Complete with All Accessories required and approved by architect -Jaquar make ; Atcom; Scintilla or equivalent.	Nos	40	11876	Not Quoted	Not Quoted
264.0		Supply, Installation, testing and commissioning of DALI Controller/Gateway, Control of a maximum of 2 Loop 2*64 DALI-2 devices in a max. of 2*16 groups. Incorporation of the groups into up to 2*16 light-scenes is possible. Central switching function. Manual control of the groups independent of the bus. Feedback of DALI error status or short-circuit and supply voltage failure message. Soft-On or Soft-Off function. Timer functions (ON-delay, OFF-delay, staircase lighting function, also with pre-warning function). Compatible DT8/ DT6 KNX/Other Wired Bus only (Make: - Panasonic / Legrand / Creston)	No.	2	76317	Not Quoted	Not Quoted
265.0		Supply, Installation, testing and commissioning of 12 Channel Switch Actuator with Manual Override Button on controller 10A Per channel (Make: - Panasonic / Legrand / Creston)	No.	1	46459	Not Quoted	Not Quoted
266.0		Supply, Installation, testing and commissioning of BUS Wired PIR sensor on the product has a moving lens (mechanical adjustment) and a shade ring allow users to easily customize the coverage area and detection range. RGB Led can be used to indicate movements or/and one of the measurements value. Mixed light measurement suitable for fluorescent (FUPUESL), halogen/incandescent lamps and LEDs. BUS programming button of the product is under the front cover for easy access. Product can be flush mounted installed in ceilings with clamps. Ceiling installation is also possible with surface-mounted box. 8 independent channels can be used for presence or/and brightness dependent control for lighting, HVAC control etc... Test mode for checking function and detection area (Make: - Panasonic / Legrand / Creston)	No.	13	14412	Not Quoted	Not Quoted

267.0		Supply, Installation, testing and commissioning of 8 Button Keypad, For operating switching, dimming, blinds and recall/save light scene functions individually. 8 Button operation. Keypad must be bu wired only. Can be used to send temperature, priority, value, percentage, HVAC operation mode value. Scene functions can be saved by pressing 5 seconds if fold is programmed as recall/ save light scene. Setting of desired behaviour via long and short key depression is possible. With LED status indication, KNX/Other Wired Bus only. (Make: - Panasonic / Legrand / Creston)	No.	10	30570	Not Quoted	Not Quoted
268.0		Supply, Installation, testing and commissioning of KNX IP Router/Interface/Gateway, Connecting KNX IP/Other and KNX TP/Other Integration KNX/Other IP / Ethernet with TP Bus system Supporting KNXnet / IP /other routing and tunneling functions Indicated operation and filtering statuses by LEDs Connecting KNX IP/other devices by a standard RJ45 connector directly and also via Ethernet networks A rail-mounted device for installation in distribution boards on 35 mm DIN rails Integrated bootloader function for remote firmware updates via IP / Ethernet Temporary deactivation of filtering by a single button press (Eases commissioning because of short-time access to other lines.) No need for an additional power supply KNX/Other Wired Bus only. (Make: - Panasonic / Legrand / Creston)	No.	1	58075	Not Quoted	Not Quoted
269.0		Supply, Installation, testing and commissioning of BUS Power Supply, 640mA Power Supply. For supplying KNX/Other Bus devices with bus voltage. One non-choked and one choked output each. The non-choked output can be used for the supply of another line or for function devices (smart sensor etc.) which require an auxiliary voltage. Nominal voltage can be subdivided to outputs (choked or nonchoked) as desired. With reset switch for bus lines. With short circuit protection. With overvoltage protection KNX/Other Wired Bus only (Make: - Panasonic / Legrand / Creston)	No.	1	27875	Not Quoted	Not Quoted
270.0		Supply, Installation, testing and commissioning of Of Standalone PIR 360 Degree Ceiling Mount Sensor Dual Tech PIR and Microwave 360 degree 5A resistive Load Detection dia 1-15 meter adjustable at Installation height of 1.5-3.5 meter detection speed 0.6-1.5m/s (Make: - Panasonic / Legrand / Creston)	No.	45	3252	Not Quoted	Not Quoted
271.0		Supply, Installation, testing and commissioning of of Communication BUS wire, outdoor; 2x2x0.8mm; solid; Cu; PVC; green; 6.2mm Operating temperature -30...70°C The E-bus cable is used for the transmission of bus signals for intelligent systems in buildings. The cables ensure perfect communication in accordance with EIB regulations (European installation bus). They can be layed over, in, or below the plaster, in pipes and pipe ducts, in dry, moist, and wet areas, as well as outside, provided they are protected against direct exposure to the sun. Wiring together with high-power supply cables is possible without limitation. The EIB bus can be used to control lighting, blinds, heating, ventilation, indicator boards, etc. (Make: - Polycab / LAPP / Beldon)	Rmt	1000	116	Not Quoted	Not Quoted
272.0		Supply, Installation, testing and commissioning of BUS DALI power cable, Conductor Solid bare copper wire, 1.50SQMM Formation 2 cores twisted around central filler EasyStrip jacket Low Smoke Zero Halogen Outer Jacket Low Smoke Zero Halogen compound HM2 Construction 2 x 1.50SQMM (Make: - Panasonic / Polycab/ LAPP)	Rmt	1504	62	Not Quoted	Not Quoted
273.0		Supply, Installation, testing and commissioning of Automation distribution panel with required protection devices. As per actual requirement. Each Light Loop will be have Protection with MCB and Actuator/Contactor for ISOLATION from Automation Devices. (Make: - Panasonic / Legrand)	No.	1	29037	Not Quoted	Not Quoted
C.2 OTHER ELECTRICAL WORKS (C2)							
C.2.1 DISTRIBUTION PANEL AND MAIN DISTRIBUTION BOARDS							
		MAIN DISTRIBUTION PANEL (MDB-1)					
		Design, manufacture, supplying fixing in position of the following front operated cubicle type, front access, dead back, 2mm thick steel enclosed free standing, dust and vermin proof, switchboard with IP42 protection with hinged and lockable doors complete with interconnections, tinned copper crimping lugs, bonding to earth and painting, suitable for use at 415 volts, 3 phase 4 wire 50 Hertz system, and suitable for a fault level of 25 kA symmetrical at 415 volts.					
		Incoming :-					
		1 No. 200 amps 4 Pole , Ics= Icu 25 kA, Moulded Case Circuit Breaker with microprocessor based release unit with ROH with having following protection;					
		• Overload					
		• Short-circuit					
		• Earth fault					
		Metering & Indication :-					
		1 set of R,Y,B phase indicating lamps each with 3 nos. 6A SP MCBs.					
		1 No. Digital Electronic Energy Meter with necessary protection and port for BMS communication, 3 Nos. 200/5 amps 10VA					
		3 set of Phase indicating light shall be protected by 6A MCB					
		Busbar :-					
		250 Amps TPN, 25 kA for 1 sec. Aluminium bus bars with heat coloured shrinkable insulation sleeve. - 1 Set					
		Outgoing :-					
		3 No. 125 amps TP+N Moulded Case Circuit Breaker Ics= Icu 25 kA,with microprocessor based release unit with ROH having following protection;					
		• Overload					
		• Short-circuit					
		7 No. 63 amps TP+N Moulded Case Circuit Breaker Ics= Icu 25 kA,with microprocessor based release unit with ROH having following protection;					
		• Overload					
		• Short-circuit					
274		MDB -1 described as above	Set	1	2,14,997	Not Quoted	Not Quoted
		SUB DISTRIBUTION PANEL (MDB-U1)					
		Design, manufacture, supplying fixing in position of the following front operated cubicle type, front access, dead back, 2mm thick steel enclosed free standing, dust and vermin proof, switchboard with IP42 protection with hinged and lockable doors complete with interconnections, tinned copper crimping lugs, bonding to earth and painting, suitable for use at 415 volts, 3 phase 4 wire 50 Hertz system, and suitable for a fault level of 25 kA symmetrical at 415 volts.					
		Incoming -1 :-					
		2 No. 125 amps 4 Pole , Ics= Icu 25 kA, Moulded Case Circuit Breaker with microprocessor based release unit with ROH with having following protection;					
		• Overload					
		• Short-circuit					
		• Earth fault					
		Incoming -2 :-					

		2 No. 125 amps 4 Pole, Ics= Icu 25 kA, Moulded Case Circuit Breaker with microprocessor based release unit with ROH with having following protection; • Overload • Short-circuit • Earth fault					
		Metering & Indication :-					
		2 set of R,Y,B phase indicating lamps each with 3 nos. 6A SP MCBs.					
		6 set of Phase indicating light shall be protected by 6A MCB					
		Busbar :-					
		150 Amps 4Pole, 25 kA for 1 sec. Copper bus bars with heat coloured shrinkable insulation sleeve. - 1 Set					
		Outgoing :-					
		6 No. 63 amps TP+N Moulded Case Circuit Breaker Ics= Icu 25 kA,with microprocessor based release unit with ROH having following protection; • Overload • Short-circuit					
275		MDB-U -1_ described as above	Set	1	1,67,220	Not Quoted	Not Quoted
		DISTRIBUTION BOARDS					
		Supplying and fixing following way, horizontal type 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)					
276		6 Way (4+12) Double Door	Each	1	1,869	Not Quoted	Not Quoted
		Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 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)					
277		6 way (4 + 18), Double door	Each	1	4,215	Not Quoted	Not Quoted
278		8 way (4 + 24), Double door	Each	6	5,057	Not Quoted	Not Quoted
		Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
279		Single pole	Each	168	217	Not Quoted	Not Quoted
280.0		Supplying and fixing single pole blanking plate in the existing MCB DB comp	Each	20	11	Not Quoted	Not Quoted
		Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
281		40 amps	Each	1	369	Not Quoted	Not Quoted
		Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.					
282		40 amps	Each	1	822	Not Quoted	Not Quoted
283		63 amps	Each	6	876	Not Quoted	Not Quoted
		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.					
284		40 amps	Each	1	2,239	Not Quoted	Not Quoted
		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.					
285.00		40 amps	Each	3	2,702	Not Quoted	Not Quoted
286.00		63 amps	Each	18	2,434	Not Quoted	Not Quoted
C.2.2 LT CABLES							
		Supply of XLPE insulated and PVC sheathed Aluminium/Copper conductor armoured cable of 1.1 KV grade conforming to IS : 7098:1988 with upto date amendments of following sizes					
287.0		3.5 core, 120 Sq.mm Aluminium Arm	Mtr	20	696	Not Quoted	Not Quoted
288.0		4 core, 16 Sq.mm Copper Arm	Mtr	135	793	Not Quoted	Not Quoted
289.0		4 core, 10 Sq.mm Copper Arm	Mtr	140	536	Not Quoted	Not Quoted
		Supply of XLPE insulated and PVC sheathed copper conductor unarmoured cable of 1.1 KV grade conforming to IS : 7098:1988 with upto date amendments of following sizes					
290.0		1 core,50 Sq.mm	Mtr	120	620	Not Quoted	Not Quoted
		Supplying and making end termination with brass double compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE Aluminium /copper conductor Unarmoured/Unarmoured cable of 1.1 KV grade as required.					
291.0		3.5 core, 120 Sq.mm Aluminium Arm	Set	2	1039	Not Quoted	Not Quoted
292.0		4 core, 16 Sq.mm Copper Arm	Set	10	649	Not Quoted	Not Quoted
293.0		4 core, 10 Sq.mm Copper Arm	Set	12	608	Not Quoted	Not Quoted
294.0		1 core,50 Sq.mm Copper Unarm	Set	32	302	Not Quoted	Not Quoted
		Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.					
295.0		Upto 35 sq. mm (clamped with 1mm thick saddle)	Mtr	300	38	Not Quoted	Not Quoted
296.0		Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	Mtr	20	97	Not Quoted	Not Quoted
		HOT DEEP GI CABLE TRAYS, RACEWAY & JUNCTION BOXES:					
		Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.					
297.0		100 mm width X 50 mm depth X 1.6 mm thickness	Mtr	20	567	Not Quoted	Not Quoted
298.0		150 mm width X 50 mm depth X 1.6 mm thickness	Mtr	20	607	Not Quoted	Not Quoted
299.0		300 mm width X 50 mm depth X 1.6 mm thickness	Mtr	60	816	Not Quoted	Not Quoted
		Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray "bends" (galvanisation not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.				Not Quoted	Not Quoted
300.0		100 mm width x 50mm depth x 1.6 mm thickness.	each	4	982	Not Quoted	Not Quoted
301.0		150 mm width x 50mm depth x 1.6 mm thickness.	each	4	1,076	Not Quoted	Not Quoted
302.0		300 mm width x 50mm depth x 1.6 mm thickness.	each	2	1,569	Not Quoted	Not Quoted
		Supplying and installing following size of Hot Dipped Galvanised Iron Raceways with cover (galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with G.I. suspenders including G.I. bolts & nuts, etc. as required.					
303.0		100 mm width X 40 mm depth X 1.6 mm thickness GI Raceways	Mtr	250	269	Not Quoted	Not Quoted
304.0		150 mm width X 40 mm depth X 1.6 mm thickness Raceways	Mtr	21	376	Not Quoted	Not Quoted
305.0		300 mm width X 40 mm depth X 1.6 mm thickness Raceways	Mtr	138	699	Not Quoted	Not Quoted
306.0		Providing and fixing of 150 x 150 x 50 mm deep (Nominal size) wall junction box including providing 2 mm thick Hot deep - galvanized GI steel cover required as per specification.	No.	16	1015	Not Quoted	Not Quoted

307.0		Providing and fixing of 200 x 200 x 50 mm deep (Nominal size) wall junction box including providing 2 mm thick Hot deep - galvanized GI steel cover required as per specification.	No.	10	1135	Not Quoted	Not Quoted
308.0		Providing and fixing of 350 x 350 x 50 mm deep (Nominal size) wall junction box including providing 2 mm thick Hot deep - galvanized GI steel cover required as per specification.	No	10	1493	Not Quoted	Not Quoted
C.2.3 EARTHING						Not Quoted	Not Quoted
309.0		Providing and making earthing pits with required qty of (Chemical to enhance earth bonding improving compound) using 17 mm dia copper earth electrode in rod of 3 Mtrs Length including inspection chamber, masonry chamber 300 x 300 mm with concrete base, CI / heavy chequered plate manhole cover with frame.	Set	6	12542	Not Quoted	Not Quoted
310.0		Providing and making earthing pits with required qty of (Chemical to enhance earth bonding improving compound) using 19mm dia GI earth electrode rod of 3 Mtrs Length including inspection chamber, masonry chamber 300 x 300 mm with concrete base, CI / heavy chequered plate manhole cover with frame.	Set	2	8958	Not Quoted	Not Quoted
311.0		Supplying and laying Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	RM	140	207	Not Quoted	Not Quoted
312.0		Supplying and laying 6 SWG G.L. wire tie with cable as required.	RM	300	59	Not Quoted	Not Quoted
		Providing, laying, testing and commissioning of following 1100 volts grade PVC insulated sheathed copper conductor unarmoured cable including copper thimbles, fixing hardware as required.					
313.0		Single core 6 sq.mm Green colour cable	RM	100	75	Not Quoted	Not Quoted
314.0		Single core 10 sq.mm Green colour cable	RM	100	153	Not Quoted	Not Quoted
C.2.4 GAS SUPPRESSION SYSTEM							
		IT Room - 4590 x 2410 x 2600 -1 Qty.					
315		Supply, installation, testing and commissioning of 45 Kg capacity Novec 123 Filling Adaptor	No.	2	101694.92	Not Quoted	Not Quoted
		D/I Adaptor					
		End of Line adapter					
		Pressure Switch					
		Master Control Unit for controlling each system, complete with pressure switches, buzzers and electronic hooters, including all necessary accessories + electrical wiring to make each entire system functional.					
316		Supply, installation, testing and commissioning of Auto weight measuring unit	Nos	2	15677.97	Not Quoted	Not Quoted
317		Supply, installation, testing and commissioning of Discharge hose with Nozzle	Nos	12	8474.58	Not Quoted	Not Quoted
		UPS Room - 4590 x 2410 x 2600 -1 Qty.					
318		Supply, installation, testing and commissioning of 45 Kg capacity Novec123, / Filling Adaptor	No.	2	101694.92	Not Quoted	Not Quoted
		D/I Adaptor					
		End of Line adapter					
		Pressure Switch					
		Master Control Unit for controlling each system, complete with pressure switches, buzzers and electronic hooters, including all necessary accessories + electrical wiring to make each entire system functional.					
319		Supply, installation, testing and commissioning of Auto weight measuring unit	Nos	2	15677.9661	Not Quoted	Not Quoted
320		Supply, installation, testing and commissioning of Discharge hose with Nozzle	Nos	12	8474.576271	Not Quoted	Not Quoted
C.2.5 60 KVA UPS SYSTEM							
		60 kVA UPS SYSTEM					
		Supply, installation, testing and commissioning of 60 KVA 3 phase input (415 V ± 15%), three phase output (415 V ± 1%) in Parallel mode with isolation transformer with 15 minutes battery backup each complete with battery rack & inter connector for batteries & Isulation switch for each bank battery.					
		Note:					
		Quoted price shall be inclusive of the following:					
		i. Approved rating single core copper conductor cable connecting as batteries.					
		ii. All equipment shall be housed in individual cabinets.					
		iii. Battery backup must be given for full resistive load. Battery should be sealed maintenance free type.					
321		iv. Battery monitoring system shall be provided.	No.	2	956282.20	Not Quoted	Not Quoted
C.2.6 RODENT SYSTEM							
		RODENT SYSTEM					
322.0		SITC of Microprocessor based Master Controller with 128X64 Graphic LCD	EA	3	67796.61	Not Quoted	Not Quoted
323.0		SITC of transducer which should cover a minimum of 400 sq.ft in all voids and	EA	50	1991.53	Not Quoted	Not Quoted
324.0		Supply, installation, Testing, Commissioning & Verification Kit comprising of	EA	1	40254.24	Not Quoted	Not Quoted
325.0		SITC of GUI Software capable of supporting Real Time Graphical Represent	EA	1	25423.73	Not Quoted	Not Quoted
326.0		Supply and laying 2C x 14/40 SWG Copper Cable of 0.5 sq.mm in the surface	RM	800	67.80	Not Quoted	Not Quoted
D. AUDIO & VIDEO WORKS							
327		Supply, Installation, Testing & Commissioning of Two-way, Ceiling-mount loudspeaker with back can. Continuous Power - minimum 30 Watts or better, Sensitivity- minimum 89 dB SPL or better, Coverage Angle -110° or less, Maximum Peak SPL - minimum 110 dB or better, Rated Impedance - 8 Ohms. Transformer Tapping - 70V/100V(30,15,7.5watts) or better. Transducers - LF - minimum 6.5-inch or better, HF- .86-inch coaxially mounted with LF or better, Should include OEM supplied mounting brackets. Approved Make:- QSC / BOSE / Martin Audio	Nos	8	₹ 19,500.00	Not Quoted	Not Quoted
328		Supply, Installation, Testing & Commissioning of Quad Channel Class-D amplifier. Per Channel Power 60W @8Ω/4Ω or better, Support for 70V/100V. Power Sharing or Bridge/Parallel modes for better power distribution. Frequency Response- 20 Hz – 20 kHz or better. Signal to Noise ratio -> 100 dB or better. Input impedance - >10k, balanced or unbalanced or better. Front and Rear panel indicators for Power, signal (per channel), limit / mute / protect etc. or better. Better to have Remote standby and Power saving features - Auto-standby. Approved Make:- QSC / BOSE / Martin Audio	Nos	1	₹ 1,12,500.00	Not Quoted	Not Quoted
329		Supply, Installation, Testing & Commissioning of Digital Signal Processor with minimum 12 Mic/Line inputs and 12 Line outputs. Shall support phantom power on each microphone input. AEC channels - 12 or more with 200ms tail length. Minimum 8x8 Dante channels and support for up to 128x128 Network audio channels via Dante /AES67 or similar protocol. POTS and SIP Softphone integration for Audio conferencing. USB-B port supporting AV USB Bridging for software or web-based conferencing applications emulating USB Audio (Speakerphone) and USB Video (Camera) driver. 24 bit-A/D-D/A converters or better, 48 kHz Sample rate or better. Input frequency response of 20 Hz to 20 kHz or better. Input dynamic range > 109 or better. Approved Make:- QSC / Biamp / Symetrix	Nos	1	₹ 4,50,000.00	Not Quoted	Not Quoted

330	Supply, Installation, Testing & Commissioning of Wireless Chairman Microphone : Base Unit : It should have the facility to turn on the Chairman microphone any time. It should support camera tracking towards the speaker. Chairman microphone should have Priority function: Chairman can mute delegate microphones by a press of a key. It should have Chairman only mode. Delegate units cannot be turned on if chairman unit priority button is pressed. Should be Portable table top mobile unit . Should have built-in LCD display in with microphone stating -ID, battery level status, Microphone status, Control channel, etc. . Should be equipped with microphone on/off key and indicator. . Should have with 3 function keys to set microphone Id, Control channel, Volume level and battery status.. Battery : It should have space for Minimum 3 AA Battery to power the unit. Built-in volume control. Unit will shut off the power or shall go in in standby, if receiver is powered off ; Audio channel : Transmission method -UHF Wireless (two way), Audio channel 5 (1 chairman,4 delegate) , Carrier frequency band -610 MHz~665MHz, Modulation method- FM, Maximum Modulation - 60HKz, Radiant Power \leq -9dBm , Audio gain \leq 20 , Frequency response	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted
331	Supply, Installation, Testing & Commissioning of Delegate Wireless Microphone: Wireless communication system should eliminates the need of connecting the conference Units with wires. Should be easy to install, Should be Portable table top mobile, Should have built-in LCD display in with microphone stating -ID, battery level status, Microphone status, Control channel, etc. . Should be equipped with microphone on/off key and indicator. . Should have with 3 function keys to set microphone Id, Control channel, Volume level and battery status.. Battery : It should have space for Minimum 3 AA Battery to power the unit. Built-in volume control. Microphone will shut off the power or shall go in in standby, if receiver is powered off ; Audio channel : Transmission method UHF Wireless (two way),Audio channel 5 (1 chairman,4 delegate) , Carrier frequency band 610 MHz~665MHz , Modulation method FM, Maximum Modulation 60HKz, Radiant Power \leq -9dBm , Audio gain \leq 20 , Frequency response 50HZ-15KHz , S/N Ratio >85dB, T.H.D. <0.8% ; Data control Channel : Transmission method Wireless (two-way), Data channel 16 , Frequency Range 422.4 MHz ~ 438.4MHz , Modulation method FSK , Receiving sensitivity -100dBm, Transmission	Nos	7	₹ 42,000.00	Not Quoted	Not Quoted
332	Supply, Installation, Testing & Commissioning of Wireless Controller : Support Mode: Limit (1/2/3/4), First In First Out (FIFO -1/2/3/4), Chairman Only, Microphones in one system supports up to 256 units or more in one room. 5 microphones can be turned on at the same time., Should Adopt multi-channel high band and intermediate band frequency selective filtering, fully eliminate Interference signal , Built-in feedback eliminating technology which decreases the feedback and noise effectively, Built-in multiple noise detecting circuit and Tone Lock system to make sure the system has strong anti-jamming function , Operation distance up to 100 standard conditions meters, 60 metres in normal condition. , Support video camera auto-track function towards the speaker with integrated video processor, Should have Built-in recording module to record and play audio, Should have 16x32 dot matrix LCDdisplay system information , Receiver shall be able to control the microphone status when powered off, such as clear or shutting off all microphones. , Designed accordance to UL CE and RITE standards, Built-in USB recording module, Installation: 19-inch frame ; Audio channel : Transmission method UHF Wireless (two way) Audio channel 5 (1 chairman,4 delegate)	Nos	1	₹ 2,29,500.00	Not Quoted	Not Quoted
333	Supply, Installation, Testing and Commissioning of Ceiling Microphone with a coverage of up to 80 m², should have in built TruVoicelift feature, 28 Electret condenser capsules, Dante or Analog Output, AF frequency response: 160 Hz to 18 kHz, Latency: 4 ms, Max. SPL: 104 dB SPL, Dynamic range: 93 dB(A), Equivalent noise level: 11 dB(A), SNR ratio: 83 dB(A), Certified for: MS Teams, Zoom, DingTalk and Tencent, Camera control via talker position data, etc. Approved Makes : Sennheiser/Shure/Revolutab	Nos	1	₹ 4,95,000.00	Not Quoted	Not Quoted
334	Supply, Installation, Testing and Commissioning of 98" 4K UHD(3840 X 2160) Slim DLED display, 600 Cd/m2, Android 9.0, Quad-Core ARM Cortex-A55 CPU, ARM Mali-G31 MP2 GPU, 2GB DDR4 memory, 16GB storage, HDMI 2.0 X 4, DP 1.2a X 1, USB-A 3.0 x 1, USB-A 2.0 x 1 USB-A 2.0 (Internal) x1, USB-C 3.0 x 1, HDMI Out x 1, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Optic SPDIF, RJ12 x 1, 20W in built speaker, 24/7 operation, Built in Wifi & Bluetooth, HTML5 CMS Launcher, Android CMS Launcher, Scheduler, USB-AutoPlay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Videowall support, Real Time Clock. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	1	₹ 9,15,000.00	Not Quoted	Not Quoted
335	Supply, installation, testing & Commissioning of table top with 1 x HDMI, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	1	₹ 18,000.00	Not Quoted	Not Quoted
336	Supply, Installation, Testing and Commissioning of Wireless presentation & collaboration devices supports video resolution upto 4K@60, with HDMI Input & output, 1 Ethernet port, 3 USB ports for connecting keyboard, mouse, camera, mic etc, Supports iOS, Windows and Android operating systems, windows 10 native wireless touch and inking, supports up to 51 simultaneous connections, multi-view mode allows up to four windows 10 displays shared on-screen, etc. Approved Make: Screen Beam/Kramer/Barco	Nos	1	₹ 1,27,500.00	Not Quoted	Not Quoted
337	Supply, Installation, Testing and Commissioning of HDMI 2.0 HDBaseT Extension Set, Extend HDMI 2.0 signals up to 4K@60Hz / 4:4:4 up to 70m (4K 40m / 1080P 70m), Complete set Includes TX, RX, power supply, and IR flasher/emitter, Extends bi-directional IR. Flexible PoC (Power on either end), Supports HDR10, HDCP 2.2 compliant, Flexible power design (use power supply at TX or RX) Make- Liberty AV / Crestron / Kramer	Set	7	₹ 37,207.50	Not Quoted	Not Quoted

Staff Meeting Room (10.12x4.9)m
(15 PAX)

338		Supply, installation, testing & Commissioning of 8x8 HDMI matrix switcher with 4K60 UHD Resolution - Supports resolutions up to 3840x2160 @ 60Hz (4:4:4) resolution, S/PDIF audio outputs for each HDMI Port . The 8x8 switcher can be controlled via front panel buttons, front panel IR, external IR, remote IR, RS232, and Ethernet. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 2,72,250.00	Not Quoted	Not Quoted
339		Supply, Installation, Testing and Commissioning of USB 3.0 USB hub with 4 port powered USB hub designed to Interact with up to 4 USB devices simultaneously while providing full USB 3.0 charging power (5v 900mA per port). Transfer data and power devices like web cameras, smart boards, microphones, and other USB peripherals with ease. The powered USB hub can fully support data transfer rates from SuperSpeed, Hi-Speed, and Full-Speed USB connections and is fully backward compatible to all USB 2.0 and USB 1.1 hosts.No drivers or downloads are required for installation; although, connected USB peripherals may require a driver. The powered hub should come with a USB 3.0 cable, industrial-grade aluminum alloy with ventilation holes with LED indicators, mounting brackets, and an external power supply. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 11,550.00	Not Quoted	Not Quoted
340		Supply, Installation, Testing and Commissioning of HDMI to USB Capture device with Full HD (1080p60) resolution through your system's USB 3.0 port with an optional HDMI loop out that supports resolutions up to 4K @60Hz. an optional HDMI loop-out that supports resolutions up to 4K @60Hz. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 29,040.00	Not Quoted	Not Quoted
341		Supply, Installation, Testing & Commissioning of 4K Network PTZ Conference camera with 20x optical zoom & 60-degree horizontal coverage. Low Noise CMOS 4K image sensor with User-configurable resolution and quality for IP streams (up to 1080p). HDMI resolutions up to 4K30 and SDI-3G resolution up to 1080p60. Image rotation controls to allow for inverted mounting using ceiling bracket. Minimum Illumination - 0.5 Lux @ (F1.8, AGC ON), Horizontal Rotation Range - ±170°, Vertical Rotation Range - -30° to +90°, White Balance controls- Auto, indoor, outdoor, one-push, manual, specified color temperature. Power – PoE & AUX. Wall mounting bracket included. Approved Make:- QSC/Vaddio/Birdog	Nos	1	₹ 4,80,000.00	Not Quoted	Not Quoted
342		Supply, Installation, Testing and Commissioning of 12-port Network Switch. Approved Makes:Netgear/Cisco/Ruckus	Nos	1	₹ 24,000.00	Not Quoted	Not Quoted
343		Supply, Installation, Testing and Commissioning of Wi-Fi router/Access point for wireless meeting collaboration complete with standard accessories as required. Approved Makes:Netgear/Cisco/Ruckus	Nos	1	₹ 24,750.00	Not Quoted	Not Quoted
344		Supply, Testing and Commissioning of DIN rail mount Dali Dimming Modules -2 independent DALI links with control up to 128 individual DALI ballasts/driver per module. with LAN PoE and USB connector. Should be shipped with software/app for configuration of ballast properties, groups, and scenes. Should be able to control DALI type 8 devices as well. Should be compatible with central control system. Should be CE compliant. Approved Makes:Lutron/Zumtobel/Elmo	Nos	1	₹ 79,860.00	Not Quoted	Not Quoted
345		Supply, Installation, Testing and Commissioning of Control Processor, shall have 3 x RS-232/ RS-485or more, 8 x Relay port or more, 8 x IR /Serial or more, 8x I/O port or more, 2 GB SDRAM or better, 8 GB Flash or better, Supports SD and SDHC cards up to 32 GB, 1 x RJ-45 Port for TCP/IP, 1 x USB Port, BIS, CE/UL, FCC etc complete with standard accessories as required. Approved Makes: Crestron/Lightware/Extron	Nos	1	₹ 1,99,650.00	Not Quoted	Not Quoted
346		Supply, Installation, Testing & Commissioning of 10" Wireless Touch panel with charging and docking station. Shall be supplied with necessary GUI Software as required. Approved Makes : Apple/Logic	Nos	1	₹ 1,05,000.00	Not Quoted	Not Quoted
347		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 2,25,000.00	Not Quoted	Not Quoted
348		Supply, Installation,Testing & Commissioning of 15 U Equipment rack to house all rack mountable equipment, with internal wiring, front glass door, heat dissipation fans, power distribution units etc.complete with standard accessories as required. Approved Make:Sudpi/Chief/Rittal	Nos	1	₹ 30,000.00	Not Quoted	Not Quoted
349		Supply, Installation, Testing and Commissioning of 43" 4K UHD resolution LED Display with Android 11, 400 nits brightness, Cortex A55 1.3Ghz processor, Mali G31 MP2, Open GLES3.2, 2 GB DDR RAM, 16 GB Memory, Wifi Type support both 2.4 & 5G Standard, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, Hotel mode, Meeting Mode,20W built in speakers, HDMI 2.0 X 2, AV X 1, USB X 2, RJ45 X 1, SPDIF Out x 1,24/7 operational. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	2	₹ 48,000.00	Not Quoted	Not Quoted
350	Meeting Room (3.1x3.5m)	Supply, Installation, Testing and Commissioning of USB based : Digital Zoom:10X; View Angle: 120° (D)/110°(H)/80°(V); Focal Length: 1.89mm; Aperture Value: F2.0; Video Format: 4K/30/25; 1080P/30/59.94/29.97 ; 1080/60/50/59.94; 720P/30/59.94; AI Intelligent Framing :Face Detection & Sound Source Localization & Voice Tracking; Video Interface: HDMI, USB 3.0; Video Compression Format: MJPEG ,YUY2, H264, NV12; Audio Interface: 3.5 mm liner In/Out interface (if connect with external pickup, audio in will automatically switch into external pickup); Extension Mic Interface: RJ45 extension Mic interface, able to connect with VC231, maximum 8 cascading VC231; Other Parameters :Microphone 6; Pick Up Distance: 6m pickup distance; Frequency Response: 120Hz-16kHz ; Bluetooth :In Bluetooth pairing mode, this device can be found by other Bluetooth device; Speaker: 2x10W; Indicator Bar :Partial indicator turns green to point where the sound source comes from; Dimension :727(L)mm×1077mm(W)×125mm(H); Supply Adapter: AC110V-AC220V to DC 12V/2.5A. Approved Make:- ATDSC/Crestron/BOSE	Nos	2	₹ 95,400.00	Not Quoted	Not Quoted
351		Supply, installation, testing & Commissioning of table top with 1 x HDMI, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	2	₹ 18,000.00	Not Quoted	Not Quoted

352	Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	2	₹ 20,100.00	Not Quoted	Not Quoted
353	Supply, Installation, Testing & Commissioning of Two-way, Ceiling-mount loudspeaker with back can. Continuous Power - minimum 30 Watts or better, Sensitivity- minimum 89 dB SPL or better, Coverage Angle -110° or less, Maximum Peak SPL - minimum 110 dB or better, Rated Impedance - 8 Ohms. Transformer Tapping - 70V/100V(30,15,7.5watts) or better. Transducers - LF - minimum 6.5-inch or better, HF- .86-inch coaxially mounted with LF or better. Should include OEM supplied mounting brackets. Approved Make:- QSC / BOSE / Martin Audio	Nos	8	₹ 19,500.00	Not Quoted	Not Quoted
354	Supply, Installation, Testing & Commissioning of Quad Channel Class-D amplifier. Per Channel Power 60W @8Ω/4Ω or better. Support for 70V/100V, Power Sharing or Bridge/Parallel modes for better power distribution. Frequency Response- 20 Hz – 20 kHz or better. Signal to Noise ratio -> 100 dB or better. Input impedance - >10k, balanced or unbalanced or better. Front and Rear panel indicators for Power, signal (per channel), limit / mute / protect, etc. or better. Better to have Remote standby and Power saving features - Auto-standby. Approved Make:- QSC / BOSE / Martin Audio	Nos	1	₹ 1,12,500.00	Not Quoted	Not Quoted
355	Supply, Installation, Testing & Commissioning of Digital Signal Processor with minimum 12 Mic/Line inputs and 12 Line outputs. Shall support phantom power on each microphone input. AEC channels - 12 or more with 200ms tail length. Minimum 8x8 Dante channels and support for up to 128x128 Network audio channels via Dante /AES67 or similar protocol. POTS and SIP Softphone integration for Audio conferencing. USB-B port supporting AV USB Bridging for software or web-based conferencing applications emulating USB Audio (Speakerphone) and USB Video (Camera) driver. 24 bit-A/D-D/A converters or better, 48 kHz Sample rate or better. Input frequency response of 20 Hz to 20 kHz or better. Input dynamic range > 109 or better. Approved Make:- QSC / Biamp / Symetrix	Nos	1	₹ 4,50,000.00	Not Quoted	Not Quoted
356	Supply, Installation, Testing & Commissioning of Wireless Chairman Microphone : Base Unit : It should have the facility to turn on the Chairman microphone any time. It should support camera tracking towards the speaker, Chairman microphone should have Priority function: Chairman can mute delegate microphones by a press of a key. It should have Chairman only mode, Delegate units cannot be turned on if chairman unit priority button is pressed, Should be Portable table top mobile unit , Should have built-in LCD display in with microphone stating -ID, battery level status, Microphone status, Control channel, etc. , Should be equipped with microphone on/off key and indicator. , Should have with 3 function keys to set microphone Id, Control channel, Volume level and battery status. , Battery : It should have space for Minimum 3 AA Battery to power the unit. Built-in volume control. Unit will shut off the power or shall go in in standby, if receiver is powered off ; Audio channel : Transmission method -UHF Wireless (two way), Audio channel 5 (1 chairman,4 delegate) , Carrier frequency band -610 MHz-665MHz, Modulation method- FM, Maximum Modulation - 60Hz, Radiant Power ≤±9dBm , Audio gain ≤20 , Frequency response 50Hz-15KHz , S/N Ratio >85dB, T.H.D. <0.8% ; Data control Channel : Transmission method Wireless (two-way), Data channel 16 , Frequency Range 422.4 MHz – 438.4MHz . Modulation method FSK , Receiving sensitivity -100dBm, Transmission Consumption <6dBm , Communication rate 100Kbps , Frequency deviation <0.002' Microphone : The microphone should be detachable and shall be pull out. It shall be fixed like tightening a bolt . Should have Electric	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted
357	Supply, Installation, Testing & Commissioning of Delegate Wireless Microphone: Wireless communication system should eliminates the need of connecting the conference Units with wires. Should be easy to install, Should be Portable table top mobile, Should have built-in LCD display in with microphone stating -ID, battery level status, Microphone status, Control channel, etc. , Should be equipped with microphone on/off key and indicator. , Should have with 3 function keys to set microphone Id, Control channel, Volume level and battery status. , Battery : It should have space for Minimum 3 AA Battery to power the unit. Built-in volume control, Microphone will shut off the power or shall go in in standby, if receiver is powered off ; Audio channel : Transmission method UHF Wireless (two way).Audio channel 5 (1 chairman,4 delegate) , Carrier frequency band 610 MHz-665MHz , Modulation method FM, Maximum Modulation 60Hz, Radiant Power ≤±9dBm , Audio gain ≤20 , Frequency response 50Hz-15KHz , S/N Ratio >85dB, T.H.D. <0.8% ; Data control Channel : Transmission method Wireless (two-way), Data channel 16 , Frequency Range 422.4 MHz – 438.4MHz . Modulation method FSK , Receiving sensitivity -100dBm, Transmission Consumption <6dBm , Communication rate 100Kbps , Frequency deviation <0.002; Microphone : The microphone should be detachable and shall be pull out. It shall be fixed like tightening a bolt . Should have Electric capacity type microphone, should be equipped with windshield cover . LED Light – Should have Red Ring LED Light Indicating Microphone ON/Off Microphone Length : Microphone Length = 400mm or more	Nos	8	₹ 42,000.00	Not Quoted	Not Quoted
358	Supply, Installation, Testing & Commissioning of Wireless Controller : Support Mode: Limit (1/2/3/4), First In First Out (FIFO - 1/2/3/4), Chairman Only, Microphones in one system supports up to 256 units or more in one room. 5 microphones can be turned on at the same time., Should Adopt multi-channel high band and intermediate band frequency selective filtering, fully eliminate Interference signal , Built-in feedback eliminating technology which decreases the feedback and noise effectively, Built-in multiple noise detecting circuit and Tone Lock system to make sure the system has strong anti-jamming function , Operation distance up to 100 standard conditions meters, 60 metres in normal condition. , Support video camera auto-track function towards the speaker with integrated video processor, Should have Built-in recording module to record and play audio, Should have 16x32 dot matrix LCDdisplay system information , Receiver shall be able to control the microphone status when powered off, such as clear or shutting off all microphones . , Designed accordance to UL CE and RITE standards, Built-in USB recording module. Installation: 19-inch frame ; Audio channel : Transmission method UHF Wireless (two way) Audio channel 5 (1 chairman,4 delegate) , Carrier frequency band 610 MHz-665MHz , Modulation method FM, Maximum Modulation 60Hz, Receiving Sensitivity -100dBm, Audio gain ≤20 , Frequency response 50Hz-15KHz , S/N Ratio >85dB, T.H.D. <0.8% ; Data control Channel : Transmission method Wireless (two-way), Data channel 16 , Frequency Range 422.4 MHz – 438.4MHz Modulation method FSK Receiving sensitivity -100dBm	Nos	1	₹ 2,29,500.00	Not Quoted	Not Quoted
359	Supply, Installation, Testing & Commissioning of Handheld Combo Variable Frequency: High quality UHF band frequency dual Wireless Microphone System; 80 Selectable UHF Channels. UHF Operating Frequency Range: 583–683 MHz; Back Light Display for Frequency Identification ;Individual channel output with level control & mix output ; Two microphones can be used at the same time; Easy setup of the system with Infra-Red; Can cover distance upto 150 mtr. (between Receiver and Microphone); Separate LCD Display for channels; High quality capsule in Handheld Mics; XLR Balanced and unbalanced out; Flight Case.	Set	1	₹ 28,650.00	Not Quoted	Not Quoted

360	Conference Room/Board Room (10.12x6.29)m (32 PAX)	Supply, Installation, Testing and Commissioning of Ceiling Microphone with a coverage of up to 80 m², should have in built TruVoicelift feature, 28 Electret condenser capsules, Dante or Analog Output, AF frequency response: 160 Hz to 18 kHz, Latency: 4 ms, Max. SPL: 104 dB SPL, Dynamic range: 93 dB(A), Equivalent noise level: 11 dB(A), SNR ratio: 83 dB(A), Certified for: MS Teams, Zoom, DingTalk and Tencent. Camera control via talker position data, etc. Approved Makes : Sennheiser/Shure/Revolah	Nos	2	₹ 4,95,000.00	Not Quoted	Not Quoted
361		Supply, Installation, Testing and Commissioning of Main Display 98" 4K UHD(3840 X 2160) Slim DLED display, 600 Cd/m2, Android 9.0, Quad-Core ARM Cortex-A55 CPU, ARM Mali-G31 MP2 GPU, 2GB DDR4 memory, 16GB storage, HDMI 2.0 X 4, DP 1.2a X 1, USB-A 3.0 x 1, USB-A 2.0 x 1 USB-A 2.0 (Internal) x1, USB-C 3.0 x 1, HDMI Out x 1, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Optic SPDIF, RJ12 x 1, 20W in built speaker, 24/7 operation, Built in Wifi & Bluetooth, HTML5 CMS Launcher, Android CMS Launcher, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Videowall support, Real Time Clock. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	1	₹ 9,15,000.00	Not Quoted	Not Quoted
362		Supply, Installation, Testing and Commissioning of Side Display 75" 4K UHD(3840 X 2160) resolution Android LED display with built in 2.4 Ghz Wifi, 1.5 Ghz Built in Quad core processor, 2 GB DDR3 RAM, 8 GB Memory, Wifi Type support 2.4G Nwtwork, Mali G52MC1 GPU, with HDR 10, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, 20W built in speakers, HDMI 2.0 X 3, AV X 1, USB X 2, RJ45 X 1, Headphone Out x 1, SPDIF Out x 1, 24/7 operational. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	2	₹ 1,72,500.00	Not Quoted	Not Quoted
363		Supply, installation, testing & Commissioning of table top with 1 x HDMI, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	5	₹ 18,000.00	Not Quoted	Not Quoted
364		Supply, Installation, Testing and Commissioning of Wireless presentation & collaboration devices supports video resolution upto 4K@60, with HDMI Input & output, 1 Ethernet port, 3 USB ports for connecting keyboard, mouse, camera, mic etc, Supports iOS, Windows and Android operating systems, windows 10 native wireless touch and inking, supports up to 51 simultaneous connections, multi-view mode allows up to four windows 10 displays shared on-screen, etc. Approved Make: Screen Beam/Kramer/Barco	Nos	1	₹ 1,27,500.00	Not Quoted	Not Quoted
365		Supply, Installation, Testing and Commissioning of HDMI 2.0 HDBaseT Extension Set, Extend HDMI 2.0 signals up to 4K@60Hz / 4:4:4 up to 70m (4K 40m / 1080P 70m), Complete set Includes TX, RX, power supply, and IR flasher/emitter, Extends bi-directional IR. Flexible PoC (Power on either end), Supports HDR10, HDCP 2.2 compliant, Flexible power design (use power supply at TX or RX) Make- Liberty AV / Crestron / Kramer	Set	9	₹ 37,207.50	Not Quoted	Not Quoted
366		Supply, installation, testing & Commissioning of 8x8 HDMI matrix switcher with 4K60 UHD Resolution - Supports resolutions up to 3840x2160 @60Hz (4:4:4) resolution, S/PDIF audio outputs for each HDMI Port . The 8x8 switcher can be controlled via front panel buttons, front panel IR, external IR, remote IR, RS232, and Ethernet. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 2,72,250.00	Not Quoted	Not Quoted
367		Supply, Installation, Testing and Commissioning of USB 3.0 USB hub with 4 port powered USB hub designed to Interact with up to 4 USB devices simultaneously while providing full USB 3.0 charging power (5v 900mA per port). Transfer data and power devices like web cameras, smart boards, microphones, and other USB peripherals with ease. The powered USB hub can fully support data transfer rates from SuperSpeed, Hi-Speed, and Full-Speed USB connections and is fully backward compatible to all USB 2.0 and USB 1.1 hosts.No drivers or downloads are required for installation; although, connected USB peripherals may require a driver. The powered hub should come with a USB 3.0 cable, industrial-grade aluminum alloy with ventilation holes with LED indicators, mounting brackets, and an external power supply. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 11,550.00	Not Quoted	Not Quoted
368		Supply, Installation, Testing and Commissioning of HDMI to USB Capture device with Full HD (1080p60) resolution through your system's USB 3.0 port with an optional HDMI loop out that supports resolutions up to 4K @60Hz, an optional HDMI loop-out that supports resolutions up to 4K @60Hz. Make- Liberty AV / Crestron / Kramer	Nos	1	₹ 29,040.00	Not Quoted	Not Quoted
369		Supply, Installation, Testing & Commissioning of 4K Network PTZ Conference camera with 20x optical zoom & 60-degree horizontal coverage. Low Noise CMOS 4K image sensor with User-configurable resolution and quality for IP streams (up to 1080p). HDMI resolutions up to 4K30 and SDI-3G resolution up to 1080p60. Image rotation controls to allow for inverted mounting using ceiling bracket. Minimum Illumination - 0.5 Lux @ (F1.8, AGC ON), Horizontal Rotation Range - ±170°, Vertical Rotation Range - -30° to +90°, White Balance controls- Auto, indoor, outdoor, one-push, manual, specified color temperature. Power – PoE & AUX. Wall mounting bracket included. Approved Make:- QSC/Vaddio/Birdog	Nos	2	₹ 4,80,000.00	Not Quoted	Not Quoted
370		Supply, Installation, Testing and Commissioning of 12-port Network Switch. Approved Makes:Netgear/Cisco/Ruckus	Nos	1	₹ 24,000.00	Not Quoted	Not Quoted
371		Supply, Installation, Testing and Commissioning of Wi-Fi router/Access point for wireless meeting collaboration complete with standard accessories as required. Approved Makes:Netgear/Cisco/Ruckus	Nos	1	₹ 24,750.00	Not Quoted	Not Quoted
372		Supply, Installation, Testing and Commissioning of Control Processor, shall have 3 x RS-232/ RS-485or more, 8 x Relay port or more, 8 x IR /Serial or more, 8x I/O port or more, 2 GB SDRAM or better, 8 GB Flash or better, Supports SD and SDHC cards up to 32 GB, 1 x RJ-45 Port for TCP/IP, 1 x USB Port, BIS, CE/UL, FCC etc complete with standard accessories as required. Approved Makes: Crestron/Lightware/Extron	Nos	1	₹ 1,99,650.00	Not Quoted	Not Quoted
373		Supply, Testing and Commissioning of DIN rail mount Dali Dimming Modules -2 independent DALI links with control up to 128 individual DALI ballasts/driver per module. with LAN PoE and USB connector. Should be shipped with software/app for configuration of ballast properties, groups, and scenes. Should be able to control DALI type 8 devices as well. Should be compatible with central control system. Should be CE compliant. Approved Makes:Lutron/Zumtobel/Elmo	Nos	1	₹ 79,860.00	Not Quoted	Not Quoted
374	Supply, Installation, Testing & Commissioning of 10" Wireless Touch panel with charging and docking station. Shall be supplied with necessary GUI Software as required. Approved Makes : Apple/Logic	Nos	1	₹ 1,05,000.00	Not Quoted	Not Quoted	

375		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 3,00,000.00	Not Quoted	Not Quoted
376		Supply, Installation, Testing & Commissioning of 22 U Equipment rack to house all rack mountable equipment, with internal wiring, front glass door, heat dissipation fans, power distribution units etc. complete with standard accessories as required. Approved Make: Sudpi/Chief/Rittal	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted
377	Managing Director Cabin (9.1x9)m	Supply, Installation, Testing and Commissioning of 86" 4K UHD(3840 X 2160) Slim DLED display, 500 Cd/m2, Android 9.0, Quad-Core ARM Cortex-A55 CPU, ARM Mali-G31 MP2 GPU, 2GB DDR4 memory, 16GB storage, HDMI 2.0 X 4, DP 1.2a X 1, USB-A 3.0 x 1, USB-A 2.0 x 1 USB-A 2.0 (Internal) x1, USB-C 3.0 x 1, HDMI Out x 1, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Optic SPDIF, RJ12 x 1, 20W in built speaker, 24/7 operation, Built in Wifi & Bluetooth, HTML5 CMS Launcher, Android CMS Launcher, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Videowall support, Real Time Clock. Should be BIS certified with complete standard accessories as required. Approved Make: Sony/LG/Panasonic/Christie	Nos	1	₹ 3,45,000.00	Not Quoted	Not Quoted
378		SITC of PTZ Camera USB based : Yes; Zoom : Minimum 10X Optical Zoom; Iris: f=4.3.4-41.66mm ; F1.85 - F2.43 ; Viewing Angle: 8.8° (tele) -68.8° Wide ; Sensor: 1/2.8inch or better CMOS sensor; Pixels: 2.07 Mega Pixel ; Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080i60/50/59.94, 720P / 50 / 30 / 25 / 59.94/29.97; Minimum illumination: 0.5 Lux ; DNR: 2D & 3D DNR; White Balance : Auto/Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K; Electronic Shutter : Auto/Manual; Focus : Should be Auto/Manual/One Push; BLC: ON/OFF; WDR : Off/Dynamic level adjustment; Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Interface : USB 2.0 x1, RS232 x 1 (in & out), RS 485 ; Video Compression Format: H.265/H.264 , MJPG; Control Protocol: VISCA/PELCO-D/Pelco-P; Baud Rate : 11520 / 9600 / 4800 / 2400 ; Network Protocol: RTSP/RTMP/ONVIF, GB/T28181; Pan Rotation: ± 170° Tilt Rotation : -30°--90° ; Pan Control Speed: 0.1-60°/second ; Tilt Control Speed : 0.1-30°/second ; Preset Speed: Pan: 60°/second, Tilt 30°/second ; Preset Number: 255 preset Approved Make: ATDSC/Lumens/Vaddio	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted
379		SITC of USB Based Speaker phone: Anti-fouling and flame-retardant. Should be IP7 waterproof coating which should effectively prevent water splashing. Should have Built-in 4-microphone array structure. It should have 360-degree omni directional pickup. Should support Pickup radius of 6 meters. Should support Full-duplex deep echo cancellation with more than 65 DB. Should have Echo cancellation length ≥500ms, 48k wide band voice call HD technology, Intelligent mixing, dynamic noise suppression, Automatic direction finding technology, automatic gain technology. It should have Line In, 3.5 mm analog interface to connect mobile phone, video conference terminal and other devices that do not support USB. The speaker system should adopts multi-core digital unit and should have volume upto 85dB 16-level speaker volume with digital adjustment. Should have Acoustic echo cancellation (AEC) depth 65dB, Should have Echo length ≥500ms, Should have Two-way noise compression below 25dB, Should have Automatic Direction finding technology of intelligent microphone, Should have Automatic gain control technology, Should have Microphone Frequency Response : 100HZ-22KHZ , Speaker Frequency Response : 100HZ-22KHZ, Speaker Volume : Maximum 87dB; Pickup range: 6M & 360°. The Main Microphone should have Line In/Out with 3.5mm audio in/out interface , RJ45 Network Port to connect extended microphone , USB Interface Type B audio in/out interface, Power switch, 4 Microphones, 15 Watt Speaker, Volume button Decrease/Increase Volume , Bluetooth button Turn On/Off Bluetooth Off/On hook button, Microphone mute button in Turn On/Off	Nos	1	₹ 47,700.00	Not Quoted	Not Quoted
380		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 30,000.00	Not Quoted	Not Quoted
381	Chairman Cabin (6.9x9)m	Supply, Installation, Testing and Commissioning of 65" 4KUHD resolution LED Display with Android 11, 400 nits brightness, Cortex A55 1.3Ghz processor, Mali G31 MP2, Open GLES3.2, 2 GB DDR RAM, 16 GB Memory, Wifi Type support both 2.4 & 5G Standard, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, Hotel mode, Meeting Mode, 20W built in speakers, HDMI 2.0 X 2, AV X 1, USB X 2, RJ45 X 1, SPDIF Out x 1, 24/7 operational Approved Make: Sony/LG/Panasonic/Christie	Nos	1	₹ 1,02,000.00	Not Quoted	Not Quoted
382		SITC of PTZ Camera USB based : Yes; Zoom : Minimum 10X Optical Zoom; Iris: f=4.3.4-41.66mm ; F1.85 - F2.43 ; Viewing Angle: 8.8° (tele) -68.8° Wide ; Sensor: 1/2.8inch or better CMOS sensor; Pixels: 2.07 Mega Pixel ; Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080i60/50/59.94, 720P / 50 / 30 / 25 / 59.94/29.97; Minimum illumination: 0.5 Lux ; DNR: 2D & 3D DNR; White Balance : Auto/Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K; Electronic Shutter : Auto/Manual; Focus : Should be Auto/Manual/One Push; BLC: ON/OFF; WDR : Off/Dynamic level adjustment; Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Interface : USB 2.0 x1, RS232 x 1 (in & out), RS 485 ; Video Compression Format: H.265/H.264 , MJPG; Control Protocol: VISCA/PELCO-D/Pelco-P; Baud Rate : 11520 / 9600 / 4800 / 2400 ; Network Protocol: RTSP/RTMP/ONVIF, GB/T28181; Pan Rotation: ± 170° Tilt Rotation : -30°--90° ; Pan Control Speed: 0.1-60°/second ; Tilt Control Speed : 0.1-30°/second ; Preset Speed: Pan: 60°/second, Tilt 30°/second ; Preset Number: 255 preset Approved Make: ATDSC/Lumens/Vaddio	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted

383		SITC of USB Based Speaker phone: Anti-fouling and flame-retardant, Should be IP7 waterproof coating which should effectively prevent water splashing. Should have Built-in 4-microphone array structure, It should have 360-degree omni directional pickup, Should support Pickup radius of 6 meters, Should support Full-duplex deep echo cancellation with more than 65 DB. Should have Echo cancellation length \geq 500ms, 48k wide band voice call HD technology, Intelligent mixing, dynamic noise suppression, Automatic direction finding technology, automatic gain technology. It should have Line In, 3.5 mm analog interface to connect mobile phone, video conference terminal and other devices that do not support USB. The speaker system should adopts multi-core digital unit and should have volume upto 85dB 16-level speaker volume with digital adjustment.; Should have Acoustic echo cancellation (AEC) depth 65dB, Should have Echo length \geq 500ms, Should have Two -way noise compression below 25dB, Should have Automatic Direction finding technology of intelligent microphone, Should have Automatic gain control technology, Should have Microphone Frequency Response : 100HZ-22KHZ , Speaker Frequency Response : 100HZ-22KHZ.Speaker Volume : Maximum 87dB; Pickup range: 6M & 360°, The Main Microphone should have Line In/Out with 3.5mm audio in/out interface , RJ45 Network Port to connect extended microphone ,USB Interface Type B audio in/out interface, Power switch, 4 Microphones, 15 Watt Speaker, Volume button Decrease/Increase Volume , Bluetooth button Turn On/Off Bluetooth Off/On hook button. Microphone mute button to Turn On/Off	Nos	1	₹ 47,700.00	Not Quoted	Not Quoted
384		Supply, installation, testing & Commissioning of table top with 1 x HDMI, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	1	₹ 18,000.00	Not Quoted	Not Quoted
385		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 30,000.00	Not Quoted	Not Quoted
386		Supply, Installation, Testing and Commissioning of 43" 4K UHD resolution LED Display with Android 11, 400 nits brightness, Cortex A55 1.3Ghz processor, Mali G31 MP2, Open GLES3.2, 2 GB DDR RAM, 16 GB Memory, Wifi Type support both 2.4 & 5G Standard, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, Hotel mode, Meeting Mode, 20W built in speakers, HDMI 2.0 X 2, AV X 1, USB X 2, RJ45 X 1, SPDIF Out x 1, 24/7 operational. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	14	₹ 48,000.00	Not Quoted	Not Quoted
387	Typical Director Cabin (3.3x3m)	Supply, Installation, Testing and Commissioning of USB based : Digital Zoom: 10X; View Angle: 120° (D)/110°(H)/80°(V); Focal Length: 1.89mm; Aperture Value: F2.0; Video Format: 4K/30/25; 1080P30/59.94/29.97 ; 1080/60/50/59.94; 720P30/59.94; AI Intelligent Framing :Face Detection & Sound Source Localization & Voice Tracking; Video Interface: HDMI, USB 3.0; Video Compression Format: MJPEG ,YUY2, H264, NV12; Audio Interface: 3.5 mm liner In/Out interface (if connect with external pickup, audio in will automatically switch into external pickup); Extension Mic Interface: RJ45 extension Mic interface, able to connect with VC231, maximum 8 cascading VC231; Other Parameters :Microphone 6; Pick Up Distance: 6m pickup distance; Frequency Response: 120Hz-16kHz ; Bluetooth :In Bluetooth pairing mode, this device can be found by other Bluetooth device; Speaker: 2x10W; Indicator Bar :Partial indicator turns green to point where the sound source comes from; Dimension :727(L)mmx107mm(W) x125mm(H); Supply Adapter: AC110V-AC220V to DC 12V/2.5A. Approved Make:- ATDSC/Crestron/BOSE	Nos	14	₹ 95,400.00	Not Quoted	Not Quoted
388		Supply, installation, testing & Commissioning of table top with 1 x HDMI, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	14	₹ 18,000.00	Not Quoted	Not Quoted
389		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	14	₹ 22,500.00	Not Quoted	Not Quoted
390	Reception (14.6x7.1m)	Supply, Installation, Testing and Commissioning of 75" 4K UHD(3840 X 2160) Slim DLED display, 500 Cd/m2, Android 9.0, Quad-Core ARM Cortex-A55 CPU, ARM Mali-G31 MP2 GPU, 2GB DDR4 memory, 16GB storage, HDMI 2.0 X 4, DP 1.2a X 1, USB-A 3.0 x 1, USB-A 2.0 x 1 USB-A 2.0 (Internal) x1, USB-C 3.0 x 1, HDMI Out x 1, RJ45 X 1, RS232 X 1, Audio IN X1, Audio Out x 1, Optic SPDIF, RJ12 x 1, 20W in built speaker, 24/7 operation, Built in Wifi & Bluetooth, HTML5 CMS Launcher, Android CMS Launcher, Scheduler, USB-Autoplay, Auto-Launch, HDMI-CEC, HDMI-Wakeup, OSD and UI Rotation, Video Rotation, NoSignalPowerOff, Pixel shift, Videowall support, Real Time Clock with 3 year premier license. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	2	₹ 2,25,000.00	Not Quoted	Not Quoted
391		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 12,000.00	Not Quoted	Not Quoted
392		Supply, Installation, Testing and Commissioning of Side Display 75" 4K UHD(3840 X 2160) resolution Android LED display with built in 2.4 Ghz Wifi, 1.5 Ghz Built in Quad core processor, 2 GB DDR3 RAM, 8 GB Memory, Wifi Type support 2.4G Nnetwork, Mali G52MC1 GPU, with HDR 10, Dolby Audio, Built in Wifi and Cromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, 20W built in speakers, HDMI 2.0 X 3, AV X 1, USB X 2, RJ45 X 1, Headphone Out x 1, SPDIF Out x 1, 24/7 operational. Should be BIS certified with complete standard accessories as required. Approved Make:- LG/Panasonic/Christie	Nos	1	₹ 1,72,500.00	Not Quoted	Not Quoted
393	Lounge/Reading Area	Supply, Installation, Testing & Commissioning of Two-way, Ceiling-mount loudspeaker with back can. Continuous Power - minimum 30 Watts or better, Sensitivity- minimum 89 dB SPL or better, Coverage Angle -110° or less, Maximum Peak SPL - minimum 110 dB or better, Rated Impedance - 8 Ohms, Transformer Tapping - 70V/100V(30,15,7.5watts) or better. Transducers - LF - minimum 6.5-inch or better, HF- 86-inch coaxially mounted with LF or better, Should include OEM supplied mounting brackets. Approved Make:- QSC / BOSE / Martin Audio	Nos	4	₹ 19,500.00	Not Quoted	Not Quoted
394		Supply, Installation, Testing & Commissioning of dual Channel Class-D amplifier. Per Channel Power 60W @8Ω/4Ω or better, Support for 70V/100V, Power Sharing or Bridge/Parallel modes for better power distribution, Frequency Response- 20 Hz – 20 kHz or better, Signal to Noise ratio -> 100 dB or better, Input impedance - >10k, balanced or unbalanced or better, Front and Rear panel indicators for Power, signal (per channel), limit / mute / protectetc, or better. Better to have Remote standby and Power saving features - Auto-standby. Approved Make:- QSC / BOSE / Martin Audio	Nos	1	₹ 97,500.00	Not Quoted	Not Quoted
395		Supply, Installation, Testing & Commissioning of Audio Wall Plate for local input.	Nos	1	₹ 7,500.00	Not Quoted	Not Quoted
396		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 30,000.00	Not Quoted	Not Quoted

397		Supply, Installation, Testing and Commissioning of Side Display 75" 4K UHD(3840 X 2160) resolution Android LED display with built in 2.4 Ghz Wifi, 1.5 Ghz Built in Quad core processor, 2 GB DDR3 RAM, 8 GB Memory, Wifi Type support 2.4G Network, Mali G52MCI GPU, with HDR 10, Dolby Audio, Built in Wifi and Chromecast, HDMI CEC, HDMI ARC, Built-in Bluetooth, 20W built in speakers, HDMI 2.0 X 3, AV X 1, USB X 2, RJ45 X 1, Headphone Out x 1, SPDIF Out x 1, 24/7 operational. Should be BIS certified with complete standard accessories as required. Approved Make:- Sony/LG/Panasonic/Christie	Nos	1	₹ 1,72,500.00	Not Quoted	Not Quoted
398	DC Cabin (8.5x9)m	SITC of PTZ Camera USB based : Yes; Zoom : Minimum 10X Optical Zoom; Iris: f=4.3-41.66mm ; F1.85 - F2.43 ;Viewing Angle: 8.8° (tele) -68.8° Wide ;Sensor:1/2.8inch or better CMOS sensor; Pixels:2.07 Mega Pixel ; Video Formats: 1080P60/50/30/25/59.94/29.97 ; 1080i60/50/59.94/ 720P / 50 / 30 / 25 /59.94/29.97; Minimum illumination:0.5 Lux ; DNR:2D & 3D DNR; White Balance :Auto/Manual/One push 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K /7000K; Electronic Shutter : Auto/Manual; Focus : Should be Auto/Manual/One Push; BLC:ON/OFF; WDR : Off/Dynamic level adjustment; Video Adjustment: Brightness, Color, Saturation, Contrast, Sharpness, B/W mode, Gamma curve; SNR : >55 dB; Interface : USB 2.0 x1, RS232 x 1 (in & out), RS 485 ; Video Compression Format:H.265/H.264 , MJPG; Control Protocol: VISCA/PELCO-D/Pelco-P; Baud Rate : 11520 / 9600 / 4800 / 2400 ; Network Protocol: RTSP/RTMP/ ONVIF, GB/T28181; Pan Rotation:+ 170° Tilt Rotation :+30°-+90° ; Pan Control Speed: 0.1-60°/second ;Tilt Control Speed : 0.1-30°/second ;Preset Speed: Pan: 60°/second, Tilt 30°/second ;Preset Number:255 preset Approved Make:- ATDSC/Lumens/Vaddio	Nos	1	₹ 45,000.00	Not Quoted	Not Quoted
399		SITC of USB Based Speaker phone: Anti-fouling and flame-retardant, Should be IP7 waterproof coating which should effectively prevent water splashing. Should have Built-in 4-microphone array structure, It should have 360-degree omni directional pickup, Should support Pickup radius of 6 meters, Should support Full-duplex deep echo cancellation with more than 65 DB. Should have Echo cancellation length ≥500ms, 48k wide band voice call HD technology, Intelligent mixing, dynamic noise suppression, Automatic direction finding technology, automatic gain technology. It should have Line In, 3.5 mm analog interface to connect mobile phone, video conference terminal and other devices that do not support USB. The speaker system should adopts multi-core digital unit and should have volume upto85dB 16-level speaker volume with digital adjustment.; Should have Acoustic echo cancellation (AEC) depth65dB, Should have Echo length ≥500ms, Should have Two -way noise compression below 25dB, Should have Automatic Direction finding technology of intelligent microphone, Should have Automatic gain control technology, Should have Microphone Frequency Response : 100HZ-22KHZ , Speaker Frequency Response : 100HZ-22KHZ,Speaker Volume : Maximum87dB; Pickup range: 6M & 360°, The Main Microphone should have Line In/Out with 3.5mm audio in/out interface , RJ45 Network Port to connect extended microphone ,USB Interface Type B audio in/out interface, Power switch, 4 Microphones, 15 Watt Speaker, Volume button Decrease/Increase Volume , Bluetooth button Turn On/Off Bluetooth , Off/On hook button, Microphone mute button to Turn On/Off	Nos	1	₹ 47,700.00	Not Quoted	Not Quoted
400		Supply, installation, testing & Commissioning of table top with 1 x HDML, 1 x USB, 2 x Universal Power Socket, 1 x LAN Port etc.	Nos	1	₹ 18,000.00	Not Quoted	Not Quoted
401		Supply, installation, testing and commissioning of Cables, connector and required accessories.	Lot	1	₹ 30,000.00	Not Quoted	Not Quoted
402	PA System	Supply Installation Testing & Commissioning of 6 zone Digital Voice Evacuation Master controller with built in 500 watt Amplifier. The System shall meet the standards of BS EN54 - 32 & EN 60849. The System Shall have Built in 500W Class-D Amplifier and it should be capable for the EVAC, Paging, PA and BGM functions. The Controller shall have SD card option to store the EVAC and Alert Voice Message. The Controller shall have Speaker line supervision record out and amplifier auto changeover. The Controller shall have following features: Separate Zone volume control at the front side of panel, Status indications on the Panel for EVAC,Fault ,AC,DC ,Fault, ALERT & Fireman mic, Zone capacity up to 96 Zones, 8 programmable Control Input and output, Fireman Microphone with High Priority, THD<1%, Frequency response 80Hz - 20kHz, Up to 1000 Record files, 100V Class-AB Speaker Output. Approved Make : Heinrich/Aties/Bosch/Bi-amp	Nos	1	₹ 3,26,370.00	Not Quoted	Not Quoted
403		Supply Installation Testing & Commissioning of 12 zone paging microphone (call station) with necessary Zone wise, Group Zones and all call facility. The Microphone should have LED Indication, Can be Expand with additional units, Control function through microphone input to avoid distortion, Auxiliary input which supply local background music. Power 24V DC, Microphone should be able to Control the Music also. Microphone Should supply with all accessories and with standard specification, complete. Approved Make : Heinrich/Aties/Bosch/Bi-amp	Nos	3	₹ 82,230.00	Not Quoted	Not Quoted
404		Supply Installation Testing & Commissioning of 1000W RMS Four Channel Class-D Digital Power Amplifier with Switch power technology for power electricity saving, Amplifier shall have Following Features: 250W RMS per Channel, Amplifier Output 100V, Short Circuit, Power, Temperature, Overload Protection, Auto Cooling Fans. THD <0.1%, Frequency Response 20Hz - 20kHz, AC & DC Fuse, SNR >80dB. Approved Make : Heinrich/Aties/Bosch/Bi-amp	Nos	1	₹ 2,19,660.00	Not Quoted	Not Quoted
405		Supply Installation Testing & Commissioning of 10W wall mount speakers with following features:-component 6.5", Complete metal grille and line matching transformer 100/70V line. Variable wattage tapings of 5/10W, Effective frequency range 150-15kHz (BS6840), SPL@ 1m/1W=88dB, Peak SPL 96dB complete with necessary mounting hardware & accessories. Approved Make : Heinrich/Aties/Bosch/Bi-amp	Nos	22	₹ 5,775.00	Not Quoted	Not Quoted
406		Supply Installation Testing & Commissioning of 6W Recessed Ceiling speakers with following features:-Speaker Drive 5", Complete metal grille and line matching transformer 100/70V line. Variable wattage tapings of 6 / 3/ 1.5 at 100v, Effective frequency range 110-15kHz (BS6840), SPL@ 1m/1W=91dB, Peak SPL 97dB with Fire Dome complete with necessary mounting hardware & accessories. Approved Make : Heinrich/Aties/Bosch/Bi-amp	Nos	96	₹ 6,375.00	Not Quoted	Not Quoted
407		Supply Installation testing & Commissioning of 30 watt Volume Controller for VIP/CIP Lounge Area	Nos	4	₹ 7,500.00	Not Quoted	Not Quoted
408		Supply Installation Testing & Commissioning of 2x1.5sqmm speaker cable Approved Make : Delton/RR/Polycab	mtr	500	₹ 165.00	Not Quoted	Not Quoted
409		Supply Installation Testing & Commissioning of cat6 cable for Microphone Approved Make : legrand/Simon/panduit	mtr	90	₹ 67.50	Not Quoted	Not Quoted
410		Supply Installation Testing & Commissioning of 19" Rack mountable Music player which shall support DVD & USB along with RCA Audio output. Approved Make : Heinrich/Samsung/Tascam	Nos	1	₹ 43,365.00	Not Quoted	Not Quoted

411		Supply, Installation, Testing & Commissioning of 15 U Equipment rack to house all rack mountable equipment, with internal wiring, front glass door, heat dissipation fans, power distribution units etc. complete with standard accessories as required. Approved Make: Sudpi/Chief/Rittal	Nos	1	₹ 30,000.00	Not Quoted	Not Quoted
E. LAN & ELV WORKS							
412		SITC of Microprocessor based 4 Loop Fire alarm control panel fully networkable with each loop capable of taking 250 devices. The panel to give pin point location of all fire/fault conditions. Meets all requirements of latest EN54-2 & EN54-4. Access level entry to control and configure panel. 7" LCD unit to indicate Fire/Fault Signal with address and analog output, complete in all respects, 2*12V, 17AH Lead acid batteries capable of running for a minimum of 4 hours with integral battery charger complete as required and as per specification Make : HEINRICH/BOSCH/EDWARDS	Nos.	1	₹ 1,72,900.00	Not Quoted	Not Quoted
413		Supply of Repeater Panel (LCD indicator panel) with 2 line X 40 characters alpha numeric LCD display with all commands such as alarm, fault, supervision and silence button complete as required. Make : HEINRICH/BOSCH/EDWARDS	Nos.	1	₹ 63,280.00	Not Quoted	Not Quoted
414		Supply Installation Testing and Commissioning of Graphic Monitoring Software with PC. Make : HEINRICH/BOSCH/EDWARDS	Nos.	1	₹ 1,96,000.00	Not Quoted	Not Quoted
415		SITC of analogue addressable intelligent smoke detectors below Ceiling with decentralised intelligence, 18-28VDC @Loop, Monitoring status≤2.5mA, Alarm status≤3mA, 0.18-0.3dBm, Temperature range:-10-50°C (14-122°F), Humidity: 5 to 95% RH, non-condensing, soft addressable type with inbuilt fault isolator as per NFPA style 7 wiring complete with base, as required. Make : HEINRICH/BOSCH/EDWARDS	Nos.	10	₹ 2,312.80	Not Quoted	Not Quoted
416		SITC of analogue addressable intelligent smoke detectors upper Ceiling with decentralised intelligence, 18-28VDC @Loop, Monitoring status≤2.5mA, Alarm status≤3mA, 0.18-0.3dBm, Temperature range:-10-50°C (14-122°F), Humidity: 5 to 95% RH, non-condensing, soft addressable type with inbuilt fault isolator as per NFPA style 7 wiring complete with base, as required. Make : HEINRICH/BOSCH/EDWARDS	Nos.	10	₹ 2,312.80	Not Quoted	Not Quoted
417	FIRE ALARM SYSTEM	Supply Installation Testing and Commissioning of ADDRESSABLE HEAT DETECTOR: Intelligent fixed and rate-of-rise temperature heat detector. Dual LED design provides 360° viewing angle. Remote test from Panel. 18-28VDC @Loop, Monitoring status ≤2.5mA, Alarm status ≤3mA, Fixed temperature alarm-57X (135°F) A2R, Temperature range:-10-50°C (14-122°F). Make : HEINRICH/BOSCH/EDWARDS	Nos.	5	₹ 2,303.00	Not Quoted	Not Quoted
418		Supply Installation Testing and Commissioning of Response Indicator. Make : HEINRICH/BOSCH/EDWARDS	Nos.	40	₹ 266.00	Not Quoted	Not Quoted
419		SITC of Control module providing a supervised monitoring of wiring to load devices and providing voltage output. Operating Voltage-18-28VDC @Loop, Protection level-IP 30, ≤200mA @Loop 24VDC, Temperature range:-10-50°C (14-122°F), Humidity: 5 to 95% RH, non-condensing. Remote test for panel. Two LEDs with green and red light for normal and fire alarm condition. Make : HEINRICH/BOSCH/EDWARDS	Nos.	7	₹ 4,368.00	Not Quoted	Not Quoted
420		SITC of Addressable Manual Call Point soft addressable type with in built fault isolator. Monitoring status ≤ 2mA, alarm status ≤ 15mA, Class A temperature range: -5°C to 40°C (23-104°F). Red alarm indicator flashes when it is under normal condition. Meets all requirements of latest EN54 part 11, as required. Make : HEINRICH/BOSCH/EDWARDS	Nos.	4	₹ 3,094.00	Not Quoted	Not Quoted
421		SITC, Installation, Testing & Commissioning of sounder Cum flasher with 18-28VDC @Loop, Standby status ≤ 3mA, Alarm status ≤ 60mA, Alarm SPL ≥ 100 dB @ 1m, Temperature range:-10-50°C (14-122°F). Make : HEINRICH/BOSCH/EDWARDS	Nos.	4	₹ 3,150.00	Not Quoted	Not Quoted
422		SITC of Isolator module providing a reliable wire to wire short circuit safety. Remote test for panel. 18-28VDC @Loop, Standby status ≤ 2.5mA, Alarm status ≤ 80mA, IP 30, ≤900mA, Temperature range:-10-50°C (14-122°F), Humidity: 5 to 95% RH, non-condensing. Two LEDs with green and red light for normal and fire alarm condition. Make : HEINRICH/BOSCH/EDWARDS	Nos.	10	₹ 3,430.00	Not Quoted	Not Quoted
423		SITC of Relay module providing a reliable communication between various devices. Two LEDs with green and red light for normal and fire alarm condition. Make : HEINRICH/BOSCH/EDWARDS	Nos.	3	₹ 4,270.00	Not Quoted	Not Quoted
424		Supply Installation Testing and Commissioning of 2*1.5 Sq.mm unarmoured fire survival Cable. Approved Make- Pulvabh/RR Cable/Finolex	RM	500	₹ 168.00	Not Quoted	Not Quoted
425		Supply Installation Testing and Commissioning of 25mm medium PVC Conduit. Approved Make- BEC/AG/RMCON	RM	500	₹ 63.00	Not Quoted	Not Quoted
426		CCTV	Supply & installation of IP Indoor dome style Deliver 2MP Resolution, 1/2.8" * 2.13 MP CMOS Sensor Progressive with effective 1945 (H) x 1097(V) pixels, Video Compression H.264/H.265/M-JPEG, (Color) F1.2, 0 Lux (IR On), Fixed lens 3.6mm, (1 X) microSD card (Card not included), IR Distance upto 30 mtr, Auto Iris, Dual Streaming, Fram rate 25 FPS, motion detection, Ethernet Standard 10/100 Mbps, ONVIF compliance & support 3rd Party NVR/VMS, Power input 12 V DC /POE Wall mount, metal body, P66 weather proof housing with dust proof cable connectors cap as per specification. IK10 Environmental Housing. Certification : CE, FCC, BIS. MAKE-HEINRICH/BOSCH/AXIS	Nos	10	15600	Not Quoted
427	Supply & installation of IP outdoor bullet style deliver 2MP resolution, 1/2.8" * 2.3 MP CMOS Sensor Progressive with effective 1920 (H) x 1080(V) pixels, I R megapixel Fixed, Video Compression H.264/H.265/M-JPEG, (Color) 0.03Lux/F1.2, 0 Lux IR on, 1 X microSD card (Card not included), motorized varifocal lens 2.8 to 12mm, Advanced Smart IR- Distance upto 50 mtr, WDR minimum >100dB, Auto Iris, Dual Streaming support, Fram rate 25 FPS on 1080 MP resolution, Shutter Speed Auto/Manual, 1/25 - 1/10000, 3D DNR, Motion detection On/Off 4 Zone Position, Ethernet port 10/100 Base-T ONVIF support v2.4, Power input 12 V DC and Power over Ethernet (No need of additional power cable), Wall mount, heavy duty metal body, IP66 weather proof housing with dust proof cable connectors cap as per specification. IK10 Environmental Housing. Certification : CE, FCC, BIS. MAKE-HEINRICH/BOSCH/AXIS		Nos	10	17250	Not Quoted	Not Quoted
428	32 Channel NVR with 4K Support and 4 HDD Slot (20 TB Storage) 32 IP Channel Inputs: HDMI, 1/1 Audio IO and 2/1 Alarm IO 12MP, 8MP, 5MP, 4MP, 3MP, 2MP, 720p, D1 and CIF Recording Resolution 2x 4K/8x 1080p/16x 720p/36x D1 @ 30FPS Local Decoding Save Storage Space with Adaptive Recording and Camera-wise Recording Retention SMS & Email Notification, Video Pop-up, Alarms and Calling from Mobile Application 360Mbps Throughput - 180 Uplink, 180 Downlink Cascading, Create Multiple NVR Clusters to Monitor and Control Multiple Matrix NVRs Centrally ONVIF and Major Camera Brands Support. MAKE-HEINRICH/BOSCH/AXIS		Nos	1	81300	Not Quoted	Not Quoted
429	Supply, installation, testing and commissioning of video management client workstations as required including Desktop, 24x7 application (OS), keyboard, Joystick, mouse, and all required accessories complete as per specifications and as required. The licence support shall be for life time. MAKE-HP/DELL		Nos.	1	₹ 2,02,800.00	Not Quoted	Not Quoted
430	Supply, Installation, Testing & Commissioning of 55" LED Display having resolution 1920*1080. HDMI/USB/RCA Video input, RS232 In/Out RJ45 In/Out. Viewing angle 178°±178. Power Supply AC 100 to 240V. Operating Temperature 0 to 40deg. Approved Make- Heinrich/Samsung/LG		Nos.	1	₹ 1,35,000.00	Not Quoted	Not Quoted
431	Supply Installation Testing and Commissioning of 2*1.5 Sq.mm unarmoured Power Cable. MAKE-POLYCAR/RR CABLE/FINOLEX		RM	492	₹ 165.00	Not Quoted	Not Quoted
432	Supply, Installation, Testing & Commissioning of Core Switch L3 having switching capacity of 728 Gb/s & Throughput of 541.7 Mpps, MAC addresses 64k, File system flash 16GB with 24 100/1000 BaseX SFP, 4 1G/10G SFP+, 4 SFP28 (1G/10G/25G) ports and 2 QSFP28 VFL ports. All ports except VFL are MACsec capable. Including AC PS, country-specific power cord, 19in rack-mount kit and micro-USB-to-USB console cable, having AOS secured diversified code solution. Switch should at least support 4000 VLANs. The switch should be stackable/ remote stackable minimum of 8 units with dedicated stacking ports and cables. Switch should have minimum stacking bandwidth of 200 Gbps. The Switch should support minimum 1,44,000 IP-v4 routes. Including Copper & Fiber SFP. With 3 year OEM Support/Warranty. Approved Make- Cisco, ALE, HPE		Nos.	1	10,90,945	Not Quoted	Not Quoted
433	Supply, Installation, Testing & Commissioning of 24 Port POE+ Access Switches with 24 RJ-45 PoE 10/100/1G BaseT, 2 1G/10G RJ45/SFP combo, 2 SFP+ (1G/10G) uplink or VFL ports. 380W power budget, includes country specific power cord, guides and 19" rack mount kit, stack cable should be included. Switch Hardware capacity should be RAM (1GB), Flash (1GB), minimum packet buffer size of 1.5MB, Switching Capacity should be 128 Gbps as minimum, Throughput 95.3 Mpps as minimum, Operating Temperature 0 to 45Deg. with 3 year OEM Support/Warranty Approved Makes: Cisco, ALE, HPE		Nos.	5	3,25,509	Not Quoted	Not Quoted

434		SITC & Fixing of network switch with 24 PoE 1G BaseT, 2 1G* RJ45/SFP+ combo, 2 1G/10G SFP+ uplink/VFL ports. Internal AC PSU (380W budget). Switch should have switching capacity of 128Gbps and forwarding capacity of 68Mpps. MAC address : 16K minimum . Switch should have 1GB RAM, 1GB Flash and 1.5 MB packet buffer. Switch should have 64 IPV4, 4 IPV6 routes. Switch should be TEC certified and Switch OS series should be NDP-certified. Approved Makes: Cisco, ALE, HPE	Nos.	4	1,25,504	Not Quoted	Not Quoted
435		Small Form Factor Pluggable 10 Gigabit optical transceiver SFP+ Single Mode Fiber Module with an LC connector. Typical reach of 10Km Approved Make- Cisco, ALE, HPE	Nos.	5	28,000	Not Quoted	Not Quoted
436		Supply, Installation, Testing & Commissioning of WIFI Access Point with Dual radio 2.4/5GHz 2x2 802.11ax, omni antenna. 2x 1GE up, 1x RS-232 Console, USB, 48V DC, maximum aggregate data rate of 1.77 Gb/s (1.2 Gb/s in 5 GHz and 573 Mb/s in 2.4 GHz). Up to 8 SSID per radio (total 16 SSID). Support for up to 1024 associated client devices. The MTBF for the Access Point shall be at least min 1,104,490h (126.08 years). The AP should be UL2043 plenum rated. The Access Point Should Support Deep Packet Inspection (DPI) capabilities providing real-time classification of flows at the application level. Integrated omni-directional antennas with maximum antenna gain of 3.5dBi in 2.4 GHz and 3.7dBi in 5 GHz. Bluetooth 5.1: up to 18dBm transmit power (class 1) and -93dBm receive sensitivity ~ Zigbee: up to 18dBm transmit power and -102dBm receive sensitivity, with 3 year OEM Support/Warranty. Approved Make- Cisco, ALE, HPE	Nos.	5	65,726	Not Quoted	Not Quoted
437		Supply, Installation, Testing & Commissioning of WIFI Access Point with Dual radio 5GHz 4x4/2.4GHz 2x2:2, dedicated scanning radio, and integrated BLE/Zigbee radio. Integrated Omni Directional antenna, interfaces 2.5GbE RJ-45, 1GbE RJ-45, USB, 48V DC Power, maximum aggregate data rate of 3Gbps (2.4Gbps in 5 GHz and 573Mbps in GHz). Up to 8 SSID per radio (total 16 SSID). Support for up to 512 associated client devices. The MTBF for the Access Point shall be at least min 978,601h (111.71 years). The AP should be UL2043 plenum rated. The Access Point Should Support Deep Packet Inspection (DPI) capabilities providing real-time classification of flows at the application level. Integrated omni-directional antennas with maximum antenna gain of 3.3 dBi in 2.4 GHz and 3.3 dBi in 5 GHz. The AP should have Bluetooth 5/Zigbee: up to 6 dBm transmit power (class 1) and -93 dBm receive sensitivity, with 3 year OEM Support/Warranty. Approved Make- Cisco, ALE, HPE	Nos.	1	1,28,967	Not Quoted	Not Quoted
438		Supply, Installation, Testing & Commissioning of Wireless Controller, proposed solution should be premise based and not cloud based. This should be based on standard server (Physical/Virtual). The Controller should have minimum 50 AP & 50 Switches licenses from day 1 & controller monitoring software will manage both AP & Switches The Controller should be of same OEM as of switches. The Controller should be scalable to handle around 4000 APs or more in future. Should support third party network devices for basic SNMP and report. WLAN solution shall include a built-in RADIUS server for 802.1x and MAC authentication that shall not be proposed as a separate product. The built-in RADIUS server shall support at least following EAP types: EAP-PEAP, EAP-GTC, EAP-TLS, EAP-PTLS. The wireless LAN solution shall support following link layer encryption standards: WPA2_AES, WPA2_TKIP, WPA_AES, WPA_TKIP, DYNAMIC_WEP, WPA_PSK_AES, WPA_PSK_TKIP, WPA_PSK_AES_TKIP, WPA2_PSK_AES, WPA2_PSK_TKIP. The WLAN solution have WIDS/WIPS capabilities with no additional and dedicated equipment nor additional license. The WLAN solution shall be able to identify Interfering APs. The WLAN solution shall be able to identify and contain Rogue APs. If no band/channel (2.4GHz/5GHz) is overloaded (high medium utilization) or crowded (high client count), an AP shall by default guide a new client to the 5GHz band. Even if the 5GHz band is not overloaded but is crowded (high client count), an AP shall guide a new client to the 2.4GHz band. If all bands/channels (2.4GHz/5GHz) are overloaded (high medium utilization) and the 5GHz is crowded, an AP shall guide a new client to the 2.4GHz band. The WLAN solution shall comply to the 802.11r standard. The centralized management function shall allow to display the Wi-Fi coverage quality within a given area ("Heat Map"), with 3 year OEM Support/Warranty. Approved Make- Cisco, ALE, HPE	Nos.	1	13,44,220	Not Quoted	Not Quoted
439		Supply, Installation, Testing & Commissioning of Server for NMS, NMS to be installed as a Virtual Appliance, and can be deployed on anyone of the following hypervisors: • VMware ESXi: 6.5, 6.7 and 7.0.2 • MS Hyper-V: 2012 R2, 2016, 2019, and 2022 • MS Hyper-V on Windows 10 Professional • Linux KVM/Ubuntu 20.04. Server must have below hardware specs along with anyone of above virtual platform :- Hypervisor Processor : 2.4GHz, 8 logical processors, minimum reserved RAM : 20GB, HDD : 1.50TB, 2, 512GB. (Preferred Makes: HPE/ Dell/ Lenovo/Everest)	Nos.	1	8,00,800	Not Quoted	Not Quoted
440	IT WORKS_ACTIVE & PASSIVE	SITC of Cat 6A U/FTP Shielded Cable-Category 6A 4 pair U/FTP shielded LSZH cable should be compliant with TIA/EIA-568-C-2, Should be of 4 twisted pairs of 23 AWG solid conductors. Shall be 4-pair Shielded twisted pair with a cross filter/ isolator (+), meeting Category 6A tested to 500 MHz or more. Jacket/ Sheath type should be LSZH (Low Smoke Zero Halogen) as per IEC 60332-1/ IEC 60332-3, Operating Temperature should be Installation: 0°C to +50°C and Operation: -20°C to +60°C, Should be RoHS Compliant, Should be certified by ETL/UL. Make-Molex/Panduit/Systemax	RM	17000	86.4	Not Quoted	Not Quoted
441		SITC of Cat 6A SHIELDED TWISTED PAIR PATCH CORDS (1 Mtr): Conductors Should be of 4 twisted pairs of 26 AWG stranded copper for better flexibility, Patch cords should conform to ANSI/TIA-568-C.2 for Cat 6A, Should have RJ-45 jacks with boot at both the ends. Operating Temperature should be -25°C to +55°C, Shall be RoHS Compliant, Should be certified by ETL/UL. Make-Molex/Panduit/Systemax	Nos.	340	391.5	Not Quoted	Not Quoted
442		SITC of Cat 6A SHIELDED TWISTED PAIR PATCH CORDS (2 Mtr): Conductors Should be of 4 twisted pairs of 26 AWG stranded copper for better flexibility, Patch cords should conform to ANSI/TIA-568-C.2 for Cat 6A, Should have RJ-45 jacks with boot at both the ends. Operating Temperature should be -25°C to +55°C, Shall be RoHS Compliant, Should be certified by ETL/UL. Make-Molex/Panduit/Systemax	Nos.	340	472.5	Not Quoted	Not Quoted
443		SITC of Cat6A INFORMATION OUTLET (JACK):Should be conform to Category-6A as per ANSI/TIA-568-C.2.Should be support network line speeds up to 10 Gbps, I/O operating Life should be minimum 750 insertion cycles and contact material should be copper alloy.I/O contact plating should be 50µ Gold/ 50µ Nickel minimum. Operating Life should be minimum 750 insertion cycles. Plastic Housing must be Polycarbonate, UL94V-0 rated.Should be RoHS Compliant, Should be certified by ETL/UL. make-Molex/Panduit/Systemax	Nos.	340	445.5	Not Quoted	Not Quoted
444		SITC of FACEPLATE(Dual):Single square plate, 86SM,86SM, Write on labels in transparent plastic window – supplied with plate, Screw hole covers – to be supplied with plate, Plug in Icons – Icon tree – to be supplied with plate, Should be able to support variety of jacks – UTP, FTP. Make-Molex/Panduit/Systemax	Nos.	340	162	Not Quoted	Not Quoted
445		SITC of CAT6 A 24 PORT Shielded JACK-k PANEL LOADED:-Should be supplied with individually replaceable 24 numbers Category-6A IO shielded Jacks complying as per the ANSI/TIA-568C.2, Should be 19" rack mountable and of 1U height & complete with all mounting accessories, DC Connector plastic housing should be polycarbonate and UL94V-0 rated. I/O contact plating should be 50µ Gold/ 50µ Nickel minimum, Should be RoHS Compliant, Should be certified by ETL/UL. Make-Molex/Panduit/Systemax	Nos.	17	17820	Not Quoted	Not Quoted
446		SITC of Multi Mode fiber 12 core:-Unarmored Indoor, 50/125µm,OM4 LSZH Type Optical Fiber Cable:OFC consists of a number of 900µm tight buffered optical fibres reinforced with aramid yarns and sheathed in a flame retardant Low Smoke Zero Halogen (LSZH), Multi Mode, 50/125-micron primary coated buffers, OM4 (IEC 60793-2-50), Blue, Orange, Green, Brown, Slate (Grey), White, Red, Black, Yellow, Violet, Pink, Aqua, ISO/IEC 11801:2002 - 2nd Edition, Type OM4; AS/ACIF 3000; AS/NZS 3080:2003, IEE 802.3ba; suitable for use in indoor / outdoor ducts, cabling, RoHS Compliant. Make-Molex/Panduit/Systemax	RM	500	324	Not Quoted	Not Quoted
447		SITC of 24 Port Fiber Optic Rack Mount LIU with Adaptors Plates ,Splice Tray and Pigtails:-LC-Style, Should be supplied loaded with secondary coated LC pigtails, Splice Tray & Splice Protector. Its compact design and high density capacity allows it to deliver carrier class fiber management to central offices, Pops, FTTx, mobile systems and LANs.1U: 24 Fiber terminations Upgradable Upto 96 LC port in 1 U. Make-Molex/Panduit/Systemax	NOS.	5	20830.5	Not Quoted	Not Quoted

448	SITC of LC-LC Type 50/125µm Multimode OM4 Optical Fiber Patch Cords:-The optical fiber patch leads shall comprise of Multi-mode 50/125µm OM4 fiber with 2XLC type fiber connectors terminated at one end and 2X LC type fiber connectors at other end of the patch cord. (Duplex); 2.0mm ± 0.1mm x 4.1± 0.2mm, LSOH IEC 61034-1 & 2, IEC-60332-1, IEC-60754-1 & 2, -40 degree to +85 degree cent. ISO/IEC 1108:2008, ANSUTIA/ EIA 568.C.3, ANSUTIA/EIA-492, TELECORDIA GR-409, ICEA-596. Make-Molex/Panduit/Systemax	Nos.	15	2254.5	Not Quoted	Not Quoted
449	Supplying & Fixing of Floor Standing Network/Server Rack - 42U / 600w / 800d, with Heavy Duty Extruded Aluminium Frame for rigidity. Top cover with FHU provision. Top & Bottom cover with cable entry gland plates. Two pairs of 19" mounting angles with 'U' marking. Depth support channels - 3 pairs. With an Overall Weight Carrying Capacity of 500Kgs. Side Panels - 42U/800d Front MS Door Perforated honeycomb 42U/600w Rear MS Door Split Perforated honeycomb 42U/600w Fan 90CFM 230V AC, 4" dia Castors with Brake (set of 4) Vertical Cable manager 80mmW 42U Shelf, Stationery 700mm N/W PDU 12Sockets 5/15Amps with MCB Mounting Hardware (Pkt. Of 20) earthing Kit 150mmH Cable manager 1U MS with Loops complete in all respect. Approved Make- Sudpi/Rittal/Vallrack	Nos.	1	75425.85	Not Quoted	Not Quoted
450	Supplying & Fixing of Floor Standing Network Rack - 12U / 600w / 650d, with Heavy Duty Extruded Aluminium Frame for rigidity. Top cover with FHU provision. Top & Bottom cover with cable entry gland plates. Two pairs of 19" mounting angles with 'U' marking. Depth support channels - 3 pairs. With an Overall Weight Carrying Capacity of 500Kgs. Side Panels - 12U/800d Front MS Door perforated honeycomb 12U/600w Rear MS Door Fully Perforated - Mesh) 12U/600w Fan 90CFM 230V AC, 4" dia Castors with Brake (set of 4) Cable manager 1U MS with Loops Shelf, Stationery 475mm N/W PDU 7Sockets 5Amps with MCB Mounting Hardware (Pkt. Of 20) Vertical Cable Channel 50mmW 12U Approved Make- Sudpi/Rittal/Vallrack	Nos.	3	25033.05	Not Quoted	Not Quoted
460	Supplying & Fixing of Floor Standing Network Rack - 9U / 600w / 800d, with Heavy Duty Extruded Aluminium Frame for rigidity. Top cover with FHU provision. Top & Bottom cover with cable entry gland plates. Two pairs of 19" mounting angles with 'U' marking. Depth support channels - 3 pairs. With an Overall Weight Carrying Capacity of 500Kgs. Side Panels - 9U/800d Front MS Door perforated honeycomb 9U/600w Rear MS Door (Fully Perforated - Mesh) 9U/600w Fan 90CFM 230V AC, 4" dia Castors with Brake (set of 4) Cable manager 1U MS with Loops Shelf, Stationery 475mm N/W PDU 7Sockets 5Amps with MCB Mounting Hardware (Pkt. Of 20) Vertical Cable Channel 50mmW 9U Approved Make- Sudpi/Rittal/Vallrack	Nos.	1	16665.75	Not Quoted	Not Quoted
461	Supplying and fixing of 25mm dia 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. Approved Make- BEG/AGG/Sudpi	RM	499	62.1	Not Quoted	Not Quoted
462	Supply Installation Testing and Commissioning of IP at the core allowing fully distributed IP solutions across data networks, having Call Server in Redundant mode & in "Active-Active" "Hot-standby" on -48V DC configured as below; (Preferred Makes: Avaya Aura, Alcatel, Cisco)		1		Not Quoted	Not Quoted
	Analog Extensions with Licenses		16			
	SIP Extensions with Licenses		95			
	IP Extensions with Licenses		20			
	IP Hard Operator Console		1			
	Auto Attendant, DISA					
	PRI		1			
	Casual Conferencing					
	In-built Voice Mail Box					
	Unified communication from Cloud for all the users with the below features from same OEM. •Presence •Instant Messaging •Click to call •Peer to peer video Call •Audio call •File transfer etc. The UC client shall be supported on Desktop, Smart phone (iOS/Android) or web browser, subscription based.					
	Features, Functionality and compatibility: The Switching system of the EPABX should be designed with IP at the core allowing fully distributed IP solutions across data networks. It should support following 100% IP, 100 % TDM or a hybrid of IP/TDM technologies. IP Communication Devices (wired and wireless) e.g. IP Phones (hard and soft phones), Mobile IP Phones, multimedia PCs, SIP phones, or H.323 terminal devices, ISDN phones etc. Legacy TDM communication devices (Digital and analog 2 Wire telephone instruments with or without caller-id (Both FSK and DTMF), Fax, modems etc.) Hybrid trunks Analog CO, E&M circuits, digital trunks (PRI & BRI), IP trunks (H.323 & SIP). The media gateways that are geographically separated should have gateway cards with half/full duplex in auto negotiation, and each card should provide two nos.10/100/1000 mbps LAN interface connectivity in hot redundancy mode.					
	The Call Server should be able to handle traffic minimum 300K BHCA, 300K BHCC & support up to 15000 users. The voice and signaling frames should be marked [tagged] in order to be recognized. The standards of marking supported will be: Level 2: IEEE 802.1p/Q and Level 3: TOS / DiffServ The system should have non blocking architecture at all levels like System processing, Switching fabric, power supplies, other resources like DTMF receivers, R2 Receivers, Unlimited 3 party conference circuits. The SIP proxy, SIP registrar should be inbuilt in the system and should support any SIP compliant hard phones or soft phones.					
	The IP based EPABX (IP-PBX) system shall be designed with IP at the core and shall be built on IP (LAN/WAN) network, seamlessly & securely interconnecting its core server(s), Media-Gateway (s) and PBX system programming & Management platform(s) as a minimum to meet the functional & technical requirements of the tender document. It should be possible to install the Telephony system in VMs (Virtual Machine) also. System should be in compliance to IPv6. Offered IP-PBX shall be approved by TEC (Telecommunication Engineering Centre) of DOT (Department of Telephones, Ministry of Communications) of Govt. of India. Bidder to ensure that documentary proof in this regard shall be provided before commissioning. Applicable TEC Standard shall be for 'IP PBX with Media Gateway (TEC/GR/SW/PBX-005.01/SEP-2016)' with amendments if any. Also Bidder should have TEC certificate referred as "Mandatory conformance ER-Essential Requirement" All the extension and Trunk Licenses should reside in main/ standby Call server. The Media Gateway should not have the any licenses. All Media gateway, call server, IP Phone, Digital Phone, NMS, Voice mail system, call accounting, shall be of same make/OEM as of the IP-PBX system.					
	The System must support Syslog services for both internal and external command and configuration control accounting with a minimum of 5 day history. The Operating System used by the call server must not use or natively support network resource sharing services such as NFS, samba, LPR etc. The call Server must be provided adequate protection from possible virus, worm and trojan infestation points such as internal e-mail servers. The system should have the capability to, based on standard mechanisms (such as 802.1Q and DHCP), assign automatically the corresponding voice VLAN number to the IP station clients during IP station initialization, allowing for the separation of voice and data traffic at IP station The IP PBX shall support all the VOIP call Encryption from day one. All IP communication should be encrypted at Signaling as well as the voice with SHA2 certificate key length above 2048. It Should have Native Encryption of Min 128 Bit AES or 256 Bit AES. System should use randomly generated keys derived from base keys for every voice and signaling, session established by the system. And it should from same make OEM of IPPBX system	Set	1	25,48,393		

	IP-PABX	<p>The system must include a dedicated management server client platform from same OEM, that will be based on the latest technologies, such as JAVA/JEE and OS should be windows 10. This NMS system shall have the capability to support the redundancy (1+1) as and when required and there should be minimum of five or more person having different access rights to the applications. Also there should have three client for the simultaneous login in the system.</p> <p>The management platform must provide a single graphical thick client (Graphical User Interface GUI) as well as a web based interface.</p> <p>Call meeting and Accounting The log of local to local call and local to trunk call should be maintained in the exchange in both directions i.e. incoming and outgoing in the hard disk. This log should be available for all the subscribers and the trunks. The will help to trace the malicious call. Details of all calls generated by the users including, date, and hour must be provided by the system. Must provide different options to group the monitoring of the calls (cost center, extension number, trunk, user, city/area associated to dialed numbers). Epabx system should have buffer of last 30 days call details in case of Call billing system/ management system failed.</p> <p>Security</p> <p>(i) Administration users connecting directly to the Call Server (console) shall support authenticated via a RADIUS server before gaining access to the call server.</p> <p>(ii) All management traffic between a remote console/session and the call server must be encrypted. (SSH for direct command line sessions, HTTPS(SSL) for web sessions, SFTP for file transfers, etc.)</p> <p>(iii) The management platform must provide Role Based Account Management to define different levels of administrator access depending on specific function responsibility.</p> <p>(i) Performance of trunk operators The system should report clearance of calls by trunk operators and evaluate the performance index of each operator</p>					
		<p>The system Call server should be (1+1) in hot standby mode and should offer maximum availability, with the switchover of call control processing functions to an alternate or redundant processor (or soft-switch control point) in the event of significant fault. The redundancy scheme should conform to the model used in most computer systems; the complete "mirroring" of the information (both static and dynamic data.) The switch over between 2 redundant call control processors should not interrupt existing and established communications. The complete set of programs and software modules must be duplicated in real time. In case of failure of the main Server (hardware or software), the standby Server (emergency mirror) must take over the control of communications instantaneously. Also should have dual Ethernet port with 10/100/1000BT.</p> <p>Both the Call server should work in hot-standby mode in two different subnet in LAN/ WAN network and two different VLANs.</p> <p>All critical resource elements (call server, hard disks, data bases, IP interfaces, DSP resources, clocking sources, Processor, RAM, Hard disk, Tone generators, All the IO ports - Serial and Ethernet TCP/IP port, Power supplies, Ring generators, Resources like DTMF receivers, Tone detectors etc.) must be redundant and in a "Active-Active" "Hot-standby" configuration.</p> <p>Media Gateways shall support survival mechanisms that allow them to maintain 100% of the telephony services for their users, in case of failure in the WAN links where the signaling with the call server drops.</p>					
		<p>Boss Secretary Feature:-</p> <ul style="list-style-type: none"> One touch key for Boss and Secretary Call Screening through Secretary Boss & Secretary busy indication Reminder Unlimited 3 party conference calls within subscribers. Simultaneous 1 x 14 party ad-hoc conference calls within subscribers/external no. of main exchange. There should 1 x 28 party meet me dial in conference with password of four digit, it should be from same OEM. Voice prompts on/off per telephone Voice message deposit on forwarded telephone Waiting call and waiting call consultation Multiple appointment reminders per extensions – up to 4 simultaneous per extension. <p>Reminder Voice guide should be provided.</p>					
463		<p>SITC of Type 1 SIP Basic SIP Phones with high quality audio, 2.3" black and white LCD with backlit, 2 SIP accounts, 2 Fast Ethernet ports, external power supply connector, RJ9 Headset connections, Cat-5E Ethernet Cable 3M, POE Class 1.</p> <p>(Preferred Makes: Avaya, Alcatel, Cisco)</p>	Nos.	20	8,221	Not Quoted	Not Quoted
464		<p>SITC of Type 2 IP Phones Dual Port Gigabit Ethernet Essential DeskPhone, Dual Stack NOE-SIP, 2.8 inch 132x64 B&W display with backlight, HD Audio, 1 U SB-A, 1 USB-C.</p> <p>(Preferred Makes: Avaya, Alcatel, Cisco)</p>	Nos.	5	26,130	Not Quoted	Not Quoted
465		<p>SITC of Type 3 IP Phone Dual Gigabit Ethernet Enterprise DeskPhone with Corded Handset, Dual Stack NOE-SIP, 3.5 inch 320x240 color display, 2x5 soft keys (or more) on sides of the display, HD Audio, 2 USB-C, Up to 72 soft keys Capacitive smart pad, for Navigation through Menu & easily adjust screen brightness and contrast, and easily manage the in/out audio, Support Magnetic alphabetic USB-C keyboard</p> <p>(Preferred Makes: Avaya, Alcatel, Cisco)</p>	Nos.	2	36,504	Not Quoted	Not Quoted
466		<p>SITC of Type 4 IP Phone Dual Gigabit Ethernet Enterprise DeskPhone with Cordless Handset, Dual Stack NOE-SIP, 5.5 inch 720x1280 color touch display, HD Audio, 2 USB-C, WLAN-Bluetooth, 5 physical keys, Up to 72 soft keys</p> <p>2x6 virtual keys, Capacitive smart pad, for Navigation through Menu & easily adjust screen brightness and contrast, and easily manage the in/out audio, Support Magnetic alphabetic USB-C keyboard</p> <p>(Preferred Makes: Avaya, Alcatel, Cisco)</p>	Nos.	1	67,548	Not Quoted	Not Quoted
467		<p>Supply, installation, testing & commissioning of Basic Analog Push Button Telephone and CLI</p> <p>(Bittel, Alcatel, Panasonic)</p>	Nos.	25	3,338	Not Quoted	Not Quoted
468		<p>PC for EPABX Make-Dell/HP/Lenovo</p>	Nos.	1	1,56,000	Not Quoted	Not Quoted
469		<p>FCBC</p>	Nos.	2	79,560	Not Quoted	Not Quoted
470		<p>Battery Set for 4 hours back up</p>	Nos.	1	39,780	Not Quoted	Not Quoted
471		<p>Supply Installation, Testing & Commissioning of 4 Door 4 Reader Access Control Panel with onboard 32 Bit RISC ARM CPU, 8MB Flash Memory, shall support up to 100000 Card User, 400000 Event Transactions, TCP/IP. Data shall supports standard Wiegand readers. Access Control panel should have MODBUS connectivity to integrate the panel with BMS (Building Management System), with metal enclosure & inbuilt Power Supply, facility of din-rail mounting should available. Inbuilt door interlocking facility, SNMP alerts facility, Low battery and AC fail alert facility & reader Tamper detection alert facility should available.</p> <p>APPROVED MAKE-SMARTI/ENEL/GALLEGHAR</p>	Nos.	2	46860	Not Quoted	Not Quoted
472		<p>Supply Installation, Testing & Commissioning of 2 Door 2 Reader Access Control Panel with onboard 32 Bit RISC ARM CPU, 8MB Flash Memory, shall support up to 100000 Card User, 400000 Event Transactions, TCP/IP. Data shall supports standard Wiegand readers. Access Control panel should have MODBUS connectivity to integrate the panel with BMS (Building Management System), with metal enclosure & inbuilt Power Supply, facility of din-rail mounting should available. Inbuilt door interlocking facility, SNMP alerts facility, Low battery and AC fail alert facility & reader Tamper detection alert facility should available.</p> <p>APPROVED MAKE-SMARTI/ENEL/GALLEGHAR</p>	Nos.	1	31950	Not Quoted	Not Quoted
473		<p>Fingerprint based Mifare smart card biometric with wiegand connectivity provision, onboard 32 Bit RISC ARM CPU, 8MB Flash Memory, shall support up to 19,000 template capacity with touch sense keypad. Up to 75,000 users capacity and 1,80,000,transactions . Should have tricolor LED & Buzzer. Device should be having Matching Mode 1:N as well as 1:1. Sensor Image resolution should be 500 dpi. Communication port should be TCP/IP, Wiegand. There should be facility to adjust the Finger Rejection ratio as per the client needs/environment. Time based Scheduler for automatic activate- deactivate of cards. There should be a facility to verify card or Finger before admin login . The connectivity of the devices should be detected remotely from remote machine, should have inbuilt capability for online firmware up gradation. The Finger scan scanner shall be of High Protection from Scratch i.e Upper surface shall be scratch resistant and Protection from ESD.</p> <p>APPROVED MAKE-SMARTI/ENEL/GALLEGHAR</p>	Nos.	1	33506	Not Quoted	Not Quoted
474		<p>Supply installation, testing & commissioning of mifare smart card reader shall have 13.56 MHz, ISO 14443A standard, wiegand Format (32 bits) Interface, i/c making connection, integration, testing etc. complete as required at site of work.</p> <p>APPROVED MAKE-SMARTI/ENEL/GALLEGHAR</p>	Nos.	9	3517.5	Not Quoted	Not Quoted
475		<p>Supply installation, testing & commissioning of Stainless steel exit push button i/c making connection, integration, testing etc. complete as required at site of work complete as required.</p> <p>MAKE-BELL/ASSABLOI/SMARTI</p>	Nos.	9	2025	Not Quoted	Not Quoted
476		<p>Supply installation, testing & commissioning of Electromagnetic Lock 600 lbs, single leaf LED Status Display.</p> <p>MAKE-BELL/ASSABLOI/SMARTI</p>	Nos.	9	3367.5	Not Quoted	Not Quoted
477		<p>Supply installation, testing & commissioning of Electromagnetic Lock 1200 lbs, double leaf LED Status Display.</p> <p>MAKE-BELL/ASSABLOI/SMARTI</p>	Nos.	1	14250	Not Quoted	Not Quoted
478	ACCESS CONTROL SYSTEM	<p>Supply installation, testing & commissioning of U/L clamp made of aluminium anodised for EM lock on the surface of frame/structure etc. i/c alignment etc. for smooth operation of EM Lock etc. complete as required.</p>	Nos.	9	705	Not Quoted	Not Quoted

479	Supply installation, testing & commissioning of 12 V 5 Amp SMPS DC Power Supply unit , highly regulated and spikes free terminal voltage and heavy sourcing current for regulated terminal voltage.	Nos.	1	2295	Not Quoted	Not Quoted
480	Supply & Installation of Cloud Compatible enterprise level Web based Modular Access Management and Time Attendance software with SQL Database and support up to 500 users. Single GUI Platform with complete modular software with provision to integrate with different application ie: Access Control, VMS, Alarm Management, etc. Employee Self Service - login module for Employee/HOD/MANAGER where they can view their attendance, they can apply for leave/manual punch/tour entry/outdoor entry though internet with their login ID & password. Same way manager can online approve all application sent by employee. Comprehensive Email and SMS module for to send various SMS & Email on the base of different events in Access Control & Time Attendance system. It should support Multi company, multi location, multi department, multi login with different rights, multi hierarchy of employee, Should support maker & checker facility - the local administrator should able to add the users but he should not able to authenticate/approve the User, Approval right of the added user should be with main Administrator. Dedicated output reports for Payroll integration, Duress Authentications, Email & SMS can be sent on every configured event ie: Leave Application/Approval, Manual Punch Application/Approval,Outdoor Application/Approval, Tour Application/Approval, Condone Application/Approval. Holiday restriction (Reader Wise), Device Configuration - Push/Pull, Dual Authentications. APPROVED MAKE-SMART/LENE/GALLEGHAR	Nos.	1	90000	Not Quoted	Not Quoted
481	Supply & Installation of Alarm Management Software for Unlimited User, Desktop Based, Event Alerts, Graphical Representation of Alarm,Employee Tracking,etc. Email and SMS module for smartALARM, Email & SMS API Integration for sending email & SMS for any Events/Alerts. Surveillance Camera Integration Module for smartALARM, Event wise image capturing. Site Map upload facility, Door/controller can be defined on map, Alarm Indication on map, SMS/Email sending for any Alarm, CCTV/Camera Integration, Alarm acknowledge/Reset, etc. APPROVED MAKE-SMART/LENE/GALLEGHAR	Nos.	1	25846.5	Not Quoted	Not Quoted
482	Supply Installation, Testing & Commissioning face biometric with 5 inches IPS HD screen, Dual Core Processor + 1GB memory + 8G flash processor, 1/2.8" Progressive Scan CMOS Sensor, Linux Operating System, Mifare Smart Card Reader (13.56Mhz), 60,000 Storage capacity, 0.5-1.5 meters recognition distance and less than 0.5 seconds recognition time, Temp: -30°C ~+60°C, & RH: 9-90% humidity , CE certified. APPROVED MAKE-SMART/LENE/GALLEGHAR	Nos.	1	40500	Not Quoted	Not Quoted
	Supply, installation, testing & commissioning of 8 Core 1 Sq mm Cable (Mtr.)	RM	900	180	Not Quoted	Not Quoted
F. HVAC WORKS						
1.0 AIR DISTRIBUTION						
	Supply, installation, balancing and commissioning of factory fabricated GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. (It shall be as per SMACNA standards)					
483.0	Thickness 0.63 MM Galvanized Sheet Steel Ducting	Sqm.	60	915	Not Quoted	Not Quoted
484.0	Thickness 0.80 MM Galvanized Sheet Steel Ducting	Sqm.	50	1070	Not Quoted	Not Quoted
485.0	Thickness 1.00 MM Galvanized Sheet Steel Ducting	Sqm.	50	1170	Not Quoted	Not Quoted
486.0	Thickness 1.25 MM Galvanized Sheet Steel Ducting	Sqm.	50	1556	Not Quoted	Not Quoted
	Supply, installation, balancing and commissioning fabricated at site GSS sheet metal rectangular/round ducting complete with neoprene rubber gaskets, elbows, splitter dampers, vanes, hangers, supports etc. as per approved drawings and specifications of following sheet thickness complete as required. (It shall be as per BIS standards)					
487.0	Thickness 0.63 MM Galvanized Sheet Steel Ducting	Sqm.	750	897	Not Quoted	Not Quoted
488.0	Thickness 0.80 MM Galvanized Sheet Steel Ducting	Sqm.	250	1042	Not Quoted	Not Quoted
489.0	Thickness 1.00 MM Galvanized Sheet Steel Ducting	Sqm.	70	1381	Not Quoted	Not Quoted
490.0	Thickness 1.25 MM Galvanized Sheet Steel Ducting	Sqm.	150	1519	Not Quoted	Not Quoted
491.0	Supply, fabrication, installation and testing the flexible connections constructed of fire resistance flexible double canvas sleeve as per the approved shop drawings.	Sq.m.	10	551	Not Quoted	Not Quoted
492.0	Supply, installation, testing and balancing of powder coated Extruded Aluminium Supply Air Grilles (with adjustable double louvers) with Aluminium type volume control dampers in accordance with the approved specifications.	Sq.m.	20	7716	Not Quoted	Not Quoted
493.0	Supply, installation, testing and balancing of powder coated extruded Aluminium Return Air Grilles without volume control dampers in accordance with the approved specifications.	Sq.m.	20	5008	Not Quoted	Not Quoted
494.0	Supply, installation, testing and balancing of powder coated extruded aluminium construction square shape ceiling Supply Diffusers with removable core, Plenum & anti smudge ring & Aluminium type volume control dampers as per specifications.	Sq.m.	12	10325	Not Quoted	Not Quoted
495.0	Supply, installation, testing and balancing of powder coated extruded aluminium construction square shape ceiling Return Diffusers with removable core, Plenum & anti smudge ring & Aluminium type volume control dampers as per specifications.	Sq.m.	12	6875	Not Quoted	Not Quoted
	LINEAR GRILLE					
496.0	Supply, installation, testing and balancing of powder coated, LINEAR GRILLE extruded Aluminium Exhaust/Return Air Grilles without volume control dampers with adjustable double louvers.	Sq.m.	30	6356	Not Quoted	Not Quoted
	Chilled Water cassette Type (With Cordless Remote Control)					
	Supply Installation,Testing and commissioning of Cassette type indoor Units complete with all necessary fittings and accessories, like Fan, coil, filter, Refrigerant Piping, Control Wiring, cordless remote control, drain pump etc. as per specification and drawing.					
497.0	Chilled water cassette unit 4.0 TR (Stand by)	Nos.	4	41525	Not Quoted	Not Quoted
498.0	Chilled water cassette unit 2.5 TR (Stand by)	Nos.	4	28814	Not Quoted	Not Quoted
	HI WALL SPLIT INDDOR UNITS FEED BY CHILLAR IN SERVER ROOM					
	Supply, Installation, testing and commissioning of Air-cooled Hi-wall split air conditioners each comprising an indoor unit (s) consisting of cooling fins, Blower and microprocessor controller with required power supply, complete as per drawings. The indoor units shall be with structural steel supports, angles, rods etc. The quoted price shall also include dPVC drain piping with 6mm thick nitrile rubber insulation, supports, clamps, fittings, connections, sleeves, supports etc.					
499.0	2.0 TR in UPS Room& Server Room(1 Working +1 Standby)	Nos.	2	23728.81356	Not Quoted	Not Quoted
	Providing and fixing in position the following ball valves with -strainer.					
500.0	32 mm dia	Nos.	4	11864	Not Quoted	Not Quoted
501.0	25 mm dia	Nos.	4	10593	Not Quoted	Not Quoted
	Providing and fixing in position following ball valves :					
502.0	32 mm dia	Nos.	4	3390	Not Quoted	Not Quoted
503.0	25 mm dia	Nos.	4	2966	Not Quoted	Not Quoted
	Providing and fixing in position the following 'Y' Strainers :					
504.0	32 mm dia	Nos.	4	4576.271186	Not Quoted	Not Quoted
505.0	25 mm dia	Nos.	4	4237.288136	Not Quoted	Not Quoted
	Supply, installation, testing and commissioning of the following Drain (Ball) Valves (full way) of brass construction with PTFE seat, screwed female ends duly insulated as per specifications and drawings.					
506.0	32 mm dia	Nos.	4	2542.372881	Not Quoted	Not Quoted
507.0	25 mm dia	Nos.	4	2118.644068	Not Quoted	Not Quoted
	PIPING-CHILLED AND CONDENSER WATER					
	Providing and fixing in position the following MS class 'C' pipes cut to required lengths and installed with all welded joints, providing and fixing in position the necessary fittings like elbows, tees and reducers, sockets for probe meter with necessary supports by MS structural steel if required, hangers, clamp supports from walls, floors and ceiling including cutting holes and chases in brick, R.C.C. work, making good the same to original condition complete in all respects with painting with one coat of primer and two coats of paint to supports of MS work					
	Note : All chilled water and condenser water pipes and all fittings shall be Mild Steel - Class 'C' (Heavy Class) conforming to relevant BIS-1239 Code from 20 mm to 250 mm dia. Factory rolled pipes 250 mm dia above shall have 8 mm wall thickness conforming to IS-3589. Entire piping shall have welded joints conforming to relevant BIS Codes.					
508.0	25 mm dia MS pipes	Rm	90	1144	Not Quoted	Not Quoted
509.0	32 mm dia MS pipes	Rm	70	1059	Not Quoted	Not Quoted
	THERMAL INSULATION					
	Supplying , installation, testing & commissioning of thermal insulation on ducts Density of Material shall be between 40 to 60 Kg/m ³ . Thermal conductivity of elastomeric nitrile rubber shall not exceed 0.034 W/(m.K) at mean temperature of 10°C. The insulation shall have fire performance such that it passes Class 1 as per BS476 Part 7 for surface spread of flame as per BS 476 part 7 and also pass Fire Propagation requirement as per BS476 Part 6 to meet the Class 'O' Fire category. water vapour permeability shall be <2.25X10 ⁻⁷ g/Pa.m.hr as per std. ASTM E 96.toxicity index shall be less than 3.00 as per NES 713.					
510.0	19 m thick acoustic lining (Nitrile Acoustic Insulation)	Sq.m.	20	639	Not Quoted	Not Quoted
511.0	13 mm thick insulation for supply air duct & Return Air Duct	Sq.m.	1200	820	Not Quoted	Not Quoted
2.0	VENTILATION SYSTEM					

AXIAL FLOW FANS						
	Supply, Installation, Testing and Commissioning of Long Casing (motor should completely accommodated inside the casing) AXIAL FANS for exhaust air suitable for installing in any position in Horizontal or vertical. Fan shall be AMCA Certified. The motor shall be of class FH (H class wherever specified in the item, to withstand a temperature of 250 degree celsius for 2 hours) suitable for 415 V± 10% volts three phase 50cycle, AC supply & meeting criterion as per ASHRAE standard 90.1-2010 and high efficiency (IS 12615). The fan shall be equipped with mounting bracket Inlet & outlet cone required at discharge. The fan shall be low RPM (less than 1450 RPM) and capacities shall be as follows:- Duty :- At 2nd Floor - Ventilation In case of Fire (Fresh air)					
	Air Quantity : 10000 CFM Static Pressure : 25 mm wg					
512.0	Fan Motor H.P: 10 H.P Class-H Motor Duty :- At 2nd Floor - Ventilation In case of Fire (Exhaust air) Air Quantity : 5000 CFM Static Pressure : 25 mm wg	Nos.	1	76271	Not Quoted	Not Quoted
513.0	Fan Motor H.P: 5.5 H.P Class-H Motor	Nos.	4	38136	Not Quoted	Not Quoted
514.0	EXHAUST AIR GRILLES Supplying & fixing of powder coated extruded aluminium Exhaust air grill with louvers but without volume control dampers complete as required.	Sqm.	4	805	Not Quoted	Not Quoted
INLINE FANS						
	Supplying, installing, testing and commissioning of INLINE FANS suitable for installing in any position in vertical or horizontal ducts. The casing shall be internally acoustically lined and constructed of galvanised steel. The fan shall be DIDW with forward curve impeller fitted with maintenance free motor. The motor shall be suitable for 220±5% /415±10% volt single phase /three phase 50 cycles AC supply & meeting criterion as per ASHRAE standard 90.1-2010 and high efficiency (IS 12615). Quoted price shall be inclusive of electronic speed regulator and wiring between fan & speed regulator for single phase fans. In case of 3 phase fans quoted price shall be inclusive of DOL starter panel (As per motor HP meeting our parameters) with cabling between starter panel and fan. The incoming power supply to speed regulator / starter panel shall be provided by electrical contractor. Fan along with cabinet should be AMCA certified. Noise level should not exceed 57 DB at 3 meter in room condition. PCC/RCC foundation with plaster, other mounting arrangement, Antivibration arrangement of cushy foot mountings etc. complete in all respect shall be in contractor's scope. - Toilet/Pantry Toilet Exhaust Air Air Quantity : 500 CFM Toilet/Pantry Toilet Exhaust Air Air Quantity : 650 CFM					
515.0	Toilet/Pantry Toilet Exhaust Air Air Quantity : 500 CFM	Nos.	2	14044.91525	Not Quoted	Not Quoted
516.0	Toilet/Pantry Toilet Exhaust Air Air Quantity : 650 CFM	Nos.	2	15739.83051	Not Quoted	Not Quoted
Air Quality Monitoring System- CAC (Central Air Cleaner)						
	Air purification for ceiling suspended Ductable indoor units and AHU The air purification system should be suitable to reduce harmful pollutants like particulate matter (PMs), PM 2.5, allergens, pollen, smoke, bacteria, pathogens etc. based on below principle technology viz. Impingement, Polarisation and Agglomeration as a passive air It should be a slim structured unit specifically designed for integration in Return Air path of ceiling suspended indoor units, to centrally capture. It should be equivalent to Merv-14 or Higher efficiency for AHU and Ductable* Units with low pressure drop. It should have 3x working principles and it should be aluminium based or powder coated steel casing and should be self-contained. It should be a US patented technology with UL certified components. The units shall meet ANSI/ASHRAE 52.2 standards and have valid test report to verify filtration efficiency. The Basic Media of Electric Filter shall Carry Class 2 Fire Rating Listing by UL. The EAC filter/Electrostatic precipitator (ESP), which have Metal based collection plate shall not be accepted. The Supplier shall carry UL2998 certification for testing against Zero Ozone Emission. The system shall be integrated with the existing pre-section filter area of AHU. The test report for pressure drop need to be submitted for passive air purification and the same shall be demonstrated at site. Product should be made in india (NSIC)					
	Electronic filters should consist of an Internet of Things (IoT) based Smart Filtration option employing a 3-Tier Architecture. This architecture would serve to identify pressure drops across the filter, indicating when a replacement is necessary due to clogged filters. Furthermore, it should gauge levels of filter blockage, enabling scheduled preventive maintenance to ensure sustainability. To facilitate user interaction, a well-designed UI/UX experience in the form of a dashboard is essential, complete with appropriate color-coding. Additionally, the system should generate alerts and notifications via text messages or emails to signal instances of filter clogging or the need for filter replacement. To enhance compatibility, the system must support various communication protocols, including options such as WiFi, Bluetooth Low Energy, Modbus RS485, or LoRaWAN.					
517.0	AHU : 38000 CFM (Basic rate: 460000) Air Purification system (Plasma Ionization)	Nos.	1	545763	Not Quoted	Not Quoted
	The Active Air Purification system should consist of Supply, Installation, Testing and commissioning of Bipolar Ionisation System. The Bipolar Ionisation System must be a combination of Tube Based Model and Needle Point Model (Needle Point should have Nitinol (nickel titanium) Needles) and Carbon Fibre Brush Model, System should produce positive and negative ions for creating a Bio Climate rich in ions and hence neutralising harmful pollutants including pathogens, Volatile Organic Compounds and Particulate Matter. The Carbon Brush self-balancing ionizer should be installed at the fan inlet of fan coil units, VRF cassettes, ductless splits . AHU and Ductable HVAC System. These ionizers should be self-contained in a potted ABS box with a moulded flange and mounting holes and is protected with an inline 500mAglass cartridge fuse. The Needle Point Ionizer should be automatic cleaning needlepoint ionizer producing positive and negative ions that neutralize harmful pollutants and odours in the occupied space. The Needle Point compact unit should automatically remove dust and dirt build-up on the emitters eliminating the need for any maintenance. The Unit can be easily mounted at the fan inlet of any air handling system, including RTU's, ptacs, mini-splits, fan coil units and VRF systems. The Unit should accept 12-24 VAC/DC. The Tube Based Model should be a single-tube or double tube or 5 tube unit that can be installed in ductwork utilizing the pre-drilled flange and factory applied gasket. The installer makes a duct cut out and secures the unit with self-tapping sheet metal screws. The unit can also be installed inside an AHU, Treated Fresh Air unit, Heat Recovery Ventilation Unit, utilizing a contractor supplied mounting bracket. Power to the ionization unit should be interlocked with system fan operation. The power input fitting provides easy disconnection of the power supply for servicing the unit. A five position ion level control knob varies the ion output between 50% and 100%. The Life of Tube should be minimum 17600 working hours.					
	Following Certifications are mandatory to produce The Carbon Brush and Self Cleaning nickel titanium based Needle Point Bipolar Ionizer must be UL 2043 and UL 1995 certified. The Carbon Brush and Self Cleaning nickel titanium based Needle Point Bipolar Ionizer must have UL-2998 Certification for Safety against Zero Ozone Emission as per recommendation by ASHRAE. The Carbon Brush and Self Cleaning nickel titanium based Needle Point Bipolar Ionizer and Tube Based Model Should be tested on UL or Intertek/ETL to prove conformance to UL 867 for electronic devices. Other Certification ISO 16000 and , CSA C22.2# 187.					
	Manufacturers shall provide Test report from Internationally/Nationally recognized Lab for proven efficacy on below pathogens with minimum kill rates for the following pathogens given the allotted time and in a space condition: a) SARS-CoV-2 (COVID-19) Human Strain b) MS2 Bacteriophages (Surrogates COVID-19) c) Omicron Variant of SARS-CoV-2 d) H1N1 e) Total Bacterial Count Reduction rate of more than 90% from NABL Accredited Lab f) Yeas & Mold/Total fungal count Reduction rate of more than 90% from NABL Accredited Lab					
518	AHU : 38000 CFM (Basic rate - 214400)	Nos.	1	254373	Not Quoted	Not Quoted
519	Cassette Units : 800-1400 CFM for ITR/2TR (Basic rate - 13400)	Nos.	6	15898	Not Quoted	Not Quoted
Indoor Air Quality Monitoring System-						
	Supply, Installation, Testing & commissioning of IAQ Monitor to remotely measure the levels of PM 2.5, VOCs, CO2, Temperature, Humidity on a real time basis. The IAQ Monitor shall be capable of getting connected with Wi-Fi. The Monitor should be capable of sending the indoor air quality information on display Screen/Mobile/Workstation as per Client's requirement. The Monitor should indicate the quality of air through changing the colours on the display screen as per the NAAQS standards and should meet the WELL building standards. The monitor should be a 3 tier architecture including sensor Hardware, secure cloud infrastructure, monitoring apps including dashboard, android/iOS. Quoted price shall be inclusive of all necessary arrangement as required to make the unit proper functional. The Monitor Should be Reset-second class B certified. The System should provide Soft Assistance in form of Notifications and Alerts for Periodic Preventive Maintenance.					

		Dot matrix HMI/USB LAN Wi Fi Port based display system for displaying the air quality.						
520.0	I	Air Quality Monitor (Basic rate - 75000)	Nos.	2	88983	Not Quoted	Not Quoted	
G. PHE & SANITARY WORKS								
1.0								
SANITARY FIXTURES & FITTINGS								
		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, with sensor including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.- Acquaiva make Model No. AQV 10265 or Equivalent						
521.0		W.C. pan with ISI marked white solid plastic seat and lid	Each	3.00	31144.07	Not Quoted	Not Quoted	
		Providing and fixing white vitreous china Wall hung type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, with sensor including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required.- Acquaiva make Model No. AV2060 or Equivalent						
522.0		W.C. pan with ISI marked white solid plastic seat and lid	Each	17.00	19067.80	Not Quoted	Not Quoted	
		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:Acquaiva make Model No AV2060 or Equivalent						
523		White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps - Acquaiva make Model No. NOV 051M or Equivalent	Each	17.00	9449.15	Not Quoted	Not Quoted	
		Providing and fixing kitchen sink with C.I. brackets, C.P. brass chain with rubber plug, 40 mm C.P. brass waste complete, including painting the fittings and brackets, cutting and making good the walls wherever required:						
524		White glazed fire clay kitchen sink of size 600x450x 250 mm	Each	2.00	6355.93	Not Quoted	Not Quoted	
525.0		Supply of Health faucet with 1 m of C.P. brass flexible pipe and direction of Engineer-in-charge.	Each	20.00	2033.90	Not Quoted	Not Quoted	
526		Providing and fixing CP Brass 32mm size bottle trap of approved quality & make and as per the direction of engineer in charge.	Each	17.00	2076.27	Not Quoted	Not Quoted	
		Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.						
		Flexible pipe						
527.00		40 mm dia	Each	2.00	635.59	Not Quoted	Not Quoted	
		Providing and fixing toilet paper holder Acquaiva Model No RDA009 OR EQUIVALENT						
528		C.P. brass	Each	20.00	2711.86	Not Quoted	Not Quoted	
529		Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	7.00	677.97	Not Quoted	Not Quoted	
530		Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms	Each	7.00	677.97	Not Quoted	Not Quoted	
		Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.						
531		15 mm nominal bore	Each	20.00	974.58	Not Quoted	Not Quoted	
		Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931						
532		15mm nominal bore	Each	37.00	805.08	Not Quoted	Not Quoted	
533		Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms	Each	7.00	550.85	Not Quoted	Not Quoted	
534		Providing, Fixing & commissioning of CP brass wall mounted sink mixer with C.P. wall flange, swinging spot complete as required with flow rate of 6.0 LPM complying to Green Building requirements.	Each	2.00	6101.69	Not Quoted	Not Quoted	
535		Providing, Fixing & commissioning of C.P. brass twon coat hook with PVC rawl plug & C.P. brass screw complete as required.	Each	10.00	794.92	Not Quoted	Not Quoted	
536		Providing, Fixing & commissioning solid state, no touch operating, fully hygienic hand drier of approved shade with single blower, with time delay, summer & winter control, music while drying, volume ON/OFF controls complete as required.	Each	7.00	10593.22	Not Quoted	Not Quoted	
537		Providing, Fixing & commissioning low flow type two way bib cock and flow restrictor 6 L	Each	20.00	1868.64	Not Quoted	Not Quoted	
		Providing, Fixing & commissioning of vertical or horizontal storage type hot water heater fixed to wall with anchor bolts & nuts, 15mm CP brass angle stop cock and 15mm CP brass non-return valve complete including making connections with 15mm dia CP connecting pipes on inlet and outlet, suitable length of power cable and 15 amps plug direction of Engineer-in-charge.						
538		Capacity: 3 Ltr.	Each	7.00	9071.19	Not Quoted	Not Quoted	
539		Capacity: 25 Ltr.	Each	2.00	10860.17	Not Quoted	Not Quoted	
540		Supply, installation testing and commissioning of SANIPACK macerator pump specially de	Each	5.00	105932.20	Not Quoted	Not Quoted	
2.0								
INTERNAL WATER SUPPLY								
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.(For Domestic & Flushing water supply)						
		Internal work - Concealed & Exposed on Wall						
541		15 mm nominal outer dia Pipes	Metre	94.00	296.61	Not Quoted	Not Quoted	
542		20 mm nominal outer dia Pipes	Metre	157.00	381.36	Not Quoted	Not Quoted	
543		25 mm nominal outer dia Pipes	Metre	30.00	466.10	Not Quoted	Not Quoted	
544		32 mm nominal outer dia Pipes	Metre	12.00	550.85	Not Quoted	Not Quoted	
545		40 mm nominal outer dia Pipes	Metre	7.00	635.59	Not Quoted	Not Quoted	
		Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete						
546		15mm nominal bore	Each	1.00	317.80	Not Quoted	Not Quoted	
547		20mm nominal bore	Each	3.00	381.36	Not Quoted	Not Quoted	
548		25mm nominal bore	Each	4.00	466.10	Not Quoted	Not Quoted	
549		32mm nominal bore	Each	1.00	899.83	Not Quoted	Not Quoted	
550		40mm nominal bore	Each	3.00	1059.32	Not Quoted	Not Quoted	
3.0								
SOIL, WASTE, VENT PIPES & FITTINGS.								
		Providing and fixing uPVC pipes type - B conforming to IS: 13592 for soil, waste and vent pipes including all fittings rubber ring type (plain or with access door) e.g bends, junctions, cows, offsets, access pieces, jointing with rubber ring joints with lubricant etc. fixed with clamps to walls with cement concrete 1:2:4 blocks complete in all respects.						
551		110 mm dia	Rm	97.00	251.69	Not Quoted	Not Quoted	
		Providing, fixing, jointing and testing in position the following uPVC pipes conforming to IS: 4985 of 6 kg/sqm pressure rating including all fittings, solvent weld joints, testing complete for drainage system cut to required length to be laid under floor and exposed including covering all around with cement concrete and making good the same complete as required.						
552		32 mm dia	Rm	60.00	89.55	Not Quoted	Not Quoted	
553		40 mm dia	Rm	15.00	89.83	Not Quoted	Not Quoted	
554		50 mm dia	Rm	8.00	130.23	Not Quoted	Not Quoted	
555		63 mm dia	Rm	12.00	144.07	Not Quoted	Not Quoted	
556		Providing and fixing UPVC inlet hopper with two or three inlets fittings to receive waste pipes from fixtures waste. The hopper shall be fabricated from 110 mm dia upto 600 mm long upvc pipe complete etc. as per engineer in charge.	Each	2.00	889.83	Not Quoted	Not Quoted	
		Providing and fixing uPVC 'P' trap of self cleansing design without vent arm with provision for connecting pvc inlet fittings complete including cost of cutting and making good the walls and floors wherever required.						
557		110 mm inlet and 110 mm outlet.	Each	19.00	385.59	Not Quoted	Not Quoted	
558		Providing and fixing uPVC floor drain with supporting clamp ceiling or in sunken portion including cutting and making good the walls and floors wherever required complete in all respects.	Each	2.00	550.85	Not Quoted	Not Quoted	
		Providing & Fixing, Testing & Commissioning of Heavy class S.S. grating with Cockroach proof SS strainer of approved design including setting in floor with cement mortar to match with floor finish as per architect requirement suitable for waster and FT.						
559		100 mm x 100 mm	Each	21.00	779.66	Not Quoted	Not Quoted	
560		Providing and fixing 125mm chromium plated grating with ring and S.S anti cockroach basket and two S.S screws of approved design with grating screwed down to the ring with s/s screws and embedding and setting ring into the floor with cement mortar. (As per approved make or equivalent)	Each	2.00	1525.42	Not Quoted	Not Quoted	
		Providing and fixing Brass clean out plug comprising of GI socket caulked to pipe and cast brass plug with suitable inlet key for opening male threaded joint with GI class C pipe & socket. Including lead caulked complete as required.						
561		100 mm dia Pipe	Each	11.00	1203.39	Not Quoted	Not Quoted	
H. FIRE FIGHTING WORKS								
SUB HEAD A : PIPING HYDRANT SPRINKLER & ACCESSORIES SYSTEM								
		SLTC of M.S. pipe on surface						

		Supplying, laying, fixing, testing and commissioning of following sizes (NB) of class 'C' M.S. pipes conforming to IS 1259 and 3589 including cutting, threading, welding etc. and providing all fittings e.g. elbows, reducers, clamps, hangers, flanges, gaskets, nuts, bolts and washers etc. including painting of pipes and fittings with red paint over a coat of ready mixed primer, both of approved quality and shade including cutting holes and chases in brick or RCC walls/slabs and making good the same etc. complete in all respect as required. (The Welding shall not be done for piping less than 50 mm dia.) (heavy duty pipe)					
562.0		25 mm dia	Meter	430	399.15	Not Quoted	Not Quoted
563.0		32 mm dia	Meter	40	446.61	Not Quoted	Not Quoted
564.0		40 mm dia	Meter	85	551.69	Not Quoted	Not Quoted
565.0		50 mm dia	Meter	60	666.95	Not Quoted	Not Quoted
566.0		65 mm dia	Meter	35	850.85	Not Quoted	Not Quoted
567.0		80 mm dia	Meter	30	950.85	Not Quoted	Not Quoted
568.0		100 mm dia	Meter	40	1270.34	Not Quoted	Not Quoted
569.0		150 mm dia	Meter	22	1749.15	Not Quoted	Not Quoted
		Supplying and fixing Single Headed Internal Hydrant Valve oblique pattern with instantaneous Stainless Steel coupling of 63 mm dia with cast iron wheel ISI marked, conforming to IS : 5290 (Type A), with 80 mm dia flanged inlet, with ABS cap and chain complete with all accessories etc. as required.					
570.0		Single headed Stainless Steel	Each	2	5073.73	Not Quoted	Not Quoted
		Supplying of Butterfly valves of PN 1.6rating of following sizes with EPDM rubber lining seat and CF-8 stainless steel disc duly ISI marked and stainless steel stem with lever/gear operation and cast iron body in powder coated finish for fire fighting application complete in all respects conforming to IS: 13095 as required.					
571.0		100 mm dia	Each	1	5469.49	Not Quoted	Not Quoted
		Supply, Installation, Testing and Commissioning 63 mm dia. 15 Mtr. Long RRL hose pipe with 63 mm dia. male and female stainless steel couplings duly binded with GI wire rivets etc. ISI marked, IS 636 (type-A) as required.					
572.0		Stainless Steel (Grade 304)	Set	2	3757.63	Not Quoted	Not Quoted
		Supplying and fixing Stainless Steel branch pipe with 20mm dia nozzle conforming to IS:903, suitable for instantaneous connections to hose pipe coupling etc. as required.					
573.0		Stainless Steel (Grade 304)	Each	4	1396.61	Not Quoted	Not Quoted
		Providing and fixing 15 mm dia. quartzoid type Sprinkler Head with quartzoid bulb and set to operate at specified temperature.					
574.0		Pendent, 68° C, Chrome plated (Power coated adjustable rosette)	Each	230	410.17	Not Quoted	Not Quoted
575		Providing, fixing testing and commissioning of Pressure switches in pipe line including	Each	2	1277.97	Not Quoted	Not Quoted
		Supplying and fixing vane type water flow switch suitable for installation on 50 mm to 150 mm dia line for a service pressure upto 20 kg/sq. cm. of Potter / System sensor / Angus					
576.0		100 mm dia	Each	1	6238.98	Not Quoted	Not Quoted
		SITC of sprinkler installation valve					
		Providing, fixing, testing and commissioning of Sprinkler Flexible Joint of 25mm diameter, consisting of - Flexible Tube (SS 304), S.S. Slip nut, Isolated Ring & O Ring - for Sprinklers Drop, which shall include necessary supports with a maximum working pressure of 14 kg/cm ² and temperature rating of 225oF UL/ FM Listed. The length of Flexible Sprinklers Pipe shall be :-					
577.0		700 mm	Nos	70	1136.44	Not Quoted	Not Quoted
578.0		1000 mm	Nos	70	1305.08	Not Quoted	Not Quoted
579.0		1200 mm	Nos	50	1383.90	Not Quoted	Not Quoted
580.0		1500 mm	Nos	40	1521.19	Not Quoted	Not Quoted
SUB HEAD - II - (FIRE EXTINGUISHERS)							
		Providing and fixing Clean agent type (ISI marked) fire extinguishers with working temperature of -30 C to +60 C at 8bar operating pressure of consisting of welded M.S. cylindrical body squeeze lever discharge valve 30 cm long high pressure discharge hose, discharge nozzle, suspension bracket as per ISI marked finished externally with red enamel paint and fixed to wall with brackets complete with internal charger.					
581.0		9.0 kg capacity cylinder	Each	1	13617.80	Not Quoted	Not Quoted
582.0		6.0 kg capacity cylinder	Each	1	12012.71	Not Quoted	Not Quoted
583.0		4.0 kg capacity cylinder	Each	8	9283.05	Not Quoted	Not Quoted
584.0		2.0kg capacity cylinder	Each	8	6874.58	Not Quoted	Not Quoted