

STANDARD CIVIL INTERIOR MEP & ASSOCIATED WORKS BOQ (Civil & Interior)						
S.NO.	HEAD	DESCRIPTIONS	UNIT	QUANTITY	As Per Site Qty	
1						
DISMANTLING						
1.01	EXISTING EXTERNAL WALL BREAKING	Dismantling of External 9" thk brick wall in cement mortar, including glazed tiles, cement plaster, RCC stiffener and disposal of unserviceable material as directed to municipal dumping ground. Dismantling of External 9" thk brick wall in cement mortar, including glazed tiles, cement plaster, RCC stiffener and disposal of unserviceable material as directed to municipal dumping ground.	Sft	20		
1.02	EXISTING PLUMBING	Removing of all existing sanitary / plumbing fixtures like wash basin, kitchen sink , taps, WC., GI and C.I. Pipes etc. complete and stacking of serviceable material and disposal of unserviceable material as directed.	Nos	1		
1.03	EXISTING ELECTRICAL WORKS	Removing of all existing electrical wiring , conduits, switches, boards , fixtures, fittings etc. complete and stacking of serviceable material and disposal of unserviceable material as directed.	Nos	1		
#REF!	EXISTING FLOORING	Dismantling of existing flooring & disposal of unserviceable material as directed to municipal dumping ground.	Sft	950	850	✓
#REF!	MALABA SHIFTING	Removal of malba from the site per trolley or dumpfer equivalent size carriage vehicle	Nos	7	10	✓
2						
WATERPROOFING WORKS & HYGEINE WORKS						
2.01	FLOOR FILLING - FOAM CONCRETE	Providing & Filling all sunken/raised areas, with foam concrete/SIPOREX/Cinder with density not increasing 400kg/cum etc. complete at all levels as per detail and ready for PCC/Final flooring work	Cft	320	200	✓
#REF!	WATER PROOFING- APP MEMBRANE SHEET	Providing and laying water- proofing treatment to hand wash, BOH area consisting of 4mm Thk Apex Apcon Sheild / Dr Fixit Torchshield / or equivalent polyester reinforced APP modified bitumen membrane sheet(Basic Rate Rs.2000 / Roll of 10mX1m) as approved, cleaning and smoothing of entire surface, smooth plaster upto 300mm from floor rising lv, 12mmx12mm groove at 150mm from floor rising lv, one coat of Bitcote/Dr Fixit/Apex/equivalent (as approved)-heavy body bitumen primer (Basic Rate Rs.82 / Kg) coating as a primer on surface and till 450mm from floor rising lv, application of membrane sheet as per application detail and packing the hole cuts for pipe line and checking the area which is water proofed. Rate includes of laying the protective layer of Plaster. Measurement to be done only of floor area, wall area included in cost	Sft	350		
#REF!	ANTI TERMITE TREATMENT	Providing & doing anti termite treatment with IMIDACLOPRID (OZIER) for entire area (Pest control) Diluting and injecting chemical emulsion 3" in floor for pre constructional Anti Termite treatment and creating a continuous chemical @ 4' center to center barrier all over as per manufacturer specification and ISI standards. (OR AS APPVD.) including a 1 year guarantee under suitable undertaking on stamp paper etc. complete as directed by Architect.(Mode of measurement is to be carpet area of floor and not the area of surface treated).	sft	950		
3						
CIVIL WORKS						
#REF!	200MM THK SIPOREX WALL	P/C light wt. Block masonry of 200mm thk with CM 1:4 in proper line, level & plumb (Siporex or Aerocon block of size 600 x 200 x 200mm) At every 1 mt ht. interval stiffener should be provided. Rate to include the cost of stiffener & lintel.	Sft	197.75		
			4	8		
			12.75	13		
#REF!	100MM THK SIPOREX WALL	P/C light wt. Block masonry of 100mm thk with CM 1:4 in proper line, level & plumb (Siporex or Aerocon block of size 600 x 200 x 100 mm) At every 1 mt ht. interval stiffener should be provided. Rate to include the cost of stiffener & lintel.	Sft	425.75	411	✓
			12.25	13	159.25	
			8.75	13	113.75	
			11.75	13	152.75	
			0	0	0	
			0	0	0	
					425.75	
#REF!	INTERNAL PLASTER	P/A 12-15mm thick plaster in cement mortar 1:4 (1 cement : 4coarse sand) to ceiling, all types of RCC work, brick work surfaces at all levels in line, level and plumb including smooth cement finish or roughing of surface to hold tiles and providing necessary grooves at junctions of walls and ceiling, door/window frames incl. racking the joints of roughing the RCC surface, necessary curing scaffolding etc. complete as directed. Note : Allow for providing and fixing galvanized chicken mesh 300mm wide (24 gauge, 12mm size) at junction of brick masonry and concrete members to be plastered or clapped or other locations as called for, properly stretched and nailed ensuring equal thickness of plaster on both sides of mesh. Provision for chemical bonding with a layer of Plaster Master from Roff for RCC surfaces and use of REURon fibres to avoid superficial cracks.No extra payment shall be made for p/c chicken mesh, Plaster Master and REURon.	Sft	1594.75	913	✓
			12.25	13	2	
			8.75	13	2	
			11.75	13	2	
			4	8	2	
			24	13	1	
			15.5	13	1	
			12.75	13	1	

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#REF!	EXTERNAL PLASTER	P/A 20mm thick plaster in cement mortar 1:4 (1 cement : 4 coarse sand) all types of RCC. work, brick work surfaces at all levels in line, level and plumb including smooth cement finish or roughing of surface to hold tiles and providing necessary grooves at junctions of walls and ceiling, door/window frames incl. racking the joints of roughing the RCC. surface, necessary curing scaffolding etc. complete as directed.	Sft	25	
#REF!	50mm PCC	Providing & Laying PCC 1:3:6 of average thk 50mm of M 10 grade of concrete (1 cement :3 coarse sand:6graded stone aggregate 10 mm nominal size) BOH AREA	Sft	950	847
#REF!	R.C.C. CASTING WORK	Providing & casting insitu reinforced cement concrete for wall/columns/slab/floor/Sills/Lintels etc as per details/ drawings/ design. (The rate to include cost of shuttering, steel , concrete, hacking, curing all complete , design and certification from structural consultant if the need be). Grade of concrete to be considered shall be M25 & steel to be considered as 8mm thick with dia @6" c/c bothways placed on both surfaces of slab, wall etc.	CFT	0	200.4
4	FLOORING WORKS				
4.01	CUSTOMER AREA FLOORING (DARK BROWN)	Floor tiles of first quality, colour, design and shade , pattern as shown in drawing or as directed by the PIC. The tiles should be laid over a properly prepared bed of cement mortar in line and level. All joints to be cleaned & 3mm wide grout to be there between the tiles with approved color Laticrete, to the required line level at all heights and leads, as per detailed designs and drawings, including all labour, material, curing, cleaning.			
a	Supply & Fixing	Providing and fixing Somany make Enel Dark Brown - 600 x 600 - Base Rate of tile is Rs. 45/- sq.ft.	Sft	645	521
c	FOH Skirting	Providing and fixing somany make Enel dark brown 4" skirting	Rft	180	32
#REF!	PRE POLISHED KOTA STONE	P/L Pre Polished Kota Stone flooring of 19 mm thick of size 22"x22" on rcc staircase on slab / floor beds over a bed with 40 mm thk. Cement mortar (1:6) jointed with cement slurry mixed with pigment to match the colour including necessary wastage, cutting, grinding, half round moulding at the edge.	Sft	340	304
#REF!	SKIRTING	P/F upto 100 mm high tile / kota / granite skirting	Rft	0	96
#REF!	GRANITE FLOORING / STAIRCASE / STEPS	P/F 18mm thk approved Granite on flooring / ledges / Jams / Walls / Counters / laid over a properly prepared bed of cement mortar (1:4) / approved & best in class adhesive in line and level. All joints to be hairline, to be cleaned and filled with approved color Laticrete, to the required line level at all heights and leads, as per detailed designs and drawings, including all labour, edge polish, champhering, moulding, material, curing, cleaning. Base Rate of granite is Rs. 150/- sq.ft. Product-Coffee Brown or Yellow Gold	Sft	150	
#REF!	FLOOR PROTECTION	P/A POP of avg thk 10 mm over layer of plastic cover sheet to protect floor tiles/stone from damage during the period of execution	Sft	950	900
5	WALL FINISHES				
5.01	SERVICE AREA WALL TILE (REYLEUGH CREAM)	Wall tile of first quality, colour, design and shade, pattern as shown in drawing or as directed by the PIC. The tiles should be laid over a properly prepared bed of cement mortar in line and level. All joints to be cleaned & 3mm wide grout to be there between the tiles with approved color Laticrete, to the required line level at all heights and leads, as per detailed designs and drawings, including all labour, material, curing, cleaning.			
	Supply & Fixing	Providing and fixing Somany make Reyleigh Cream - 300 x 600 - Base Rate of tile is Rs. 45/- sq.ft.	Sft	404.25	279
			8.75	13	2
			11.75	13	1
			3	8	1
	Fixing only	Fixing Somany make Reyleigh Cream - 300 x 600 - (Tile to be provided by company)	Sft		
5.02	BOH Wall Tiles	P/fixing glazed ceramic (Johnson Make) White - (12"x18") Wall tiles as approved in kitchen over a base of 20-25mm thick plaster with cement mortar 1:3 (1 cement: 3 fine sand) as per approved pattern, setting the tiles in cement slurry, joints filled and finished neat with white cement as/spec. (Basic cost of tile Rs.30/- per sft.)	Sq. ft.	576.00	694.00
			23.5	8	1
			3.75	8	1
			11.75	8	1
			8.75	8	1
			11.75	8	1
			12.5	8	1
5.03	WOOD WALL TILE	Providing & Fixing Crossville " NEST SERIES " 6"X36" COLOR BLISS FULL OAK AV 353 wall tile with 1/8" thk grout lines laticrete permacolor select . Cementitious grout color 40 light pewter tiles installed horizontally in a straight pattern (Base Rate Rs.90- Sq.Ft.)		20.00	
5.04	Epoxy Grouting	Providing and filling the joints between floor tiles and wall tiles with Epoxy grout of matching colour 3 to 4mm wide and 4mm deep with proper filling and cleaning .	Sq. ft.	70.00	242.00
5.05	S.S.304 CORNER GUARD	P/f of 1 1/2"x1 1/2" Tile Guard in Stainless Steel (Brushed surface finished 2mm thk.) with counter sunk SS screws flush with the tile at 2' center to center space.	Rft.	26.00	46.00
5.06	POP PUNNING	P/A Plaster of Paris punning of avg. thk. of 15 mm on walls in proper plumb line and level with groove between ceiling and skirting as per instructions	Sft	741	
			9.75	1	13
			15.25	1	13
			5	1	13
			14	1	13
			13	1	13

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5.07	Plastic Emulsion Shadow dance grey Paint (Wall & Ceiling)	P/A 3 coats of plastic paint of approved quality & shade by sand papering the surface, applying one coat of primer, prepare the surface with two coats of full putty, sand papering again, repeating a coat of primer, applying one coat of plastic paint, touching up with putty & applying two final roller coats of plastic paint, to internal wall/ceilings masonry concrete surfaces incl. preparing the surface by cleaning scrapping, smooth filling crevices, scaffolding etc. Paint codes to be as shown in drawing	Sft	1540	1358	✓
5.08	TEXTURE PAINT	P/A Texture paint of approved quality & shade by sand papering the surface, applying one coat of primer, prepare the surface with two coats of full putty, sand papering again, repeating a coat of primer, applying one coat of luster paint, touching up with putty & applying two final roller coats of luster paint, to internal wall/ceilings masonry concrete surfaces incl. preparing the surface by cleaning scrapping, smooth filling crevices, scaffolding etc. Paint codes to be as shown in drawing.	Sft	60		
5.09	ENAMEL PAINT	P/A 3 coats of Enamel Paint of approved quality & shade by sand papering the surface, applying one coat of primer, prepare the surface with two coats of full putty, sand papering again, repeating a coat of primer, applying one coat of enamel paint, touching up with putty & applying two final roller coats of enamel paint, to internal wall/ceilings masonry concrete surfaces incl. preparing the surface by cleaning scrapping, smooth filling crevices, scaffolding etc. Paint codes to be as shown in drawing	Sft	100		
5.1	EXTERNAL PAINT-APEX ULTIMA	P/A 3 coats of Apex Paint of approved quality & shade by scrubbing clean the surface, applying one coat of primer, repeating a coat of primer, applying one coat of apex paint, touching up cracks and undulations & applying two final coats of apex paint, to external wall/ceilings masonry concrete surfaces incl. preparing the surface by cleaning scrapping, smooth filling crevices, scaffolding etc. Paint codes to be as shown in drawing	Sft	450		
5.11	DUCCO PAINT	P/A Ducco paint (non metallic) approved shade on base coating of water cutting putty sand papered smooth leveled surface with spray	Sft	0		
5.12	MELAMINE POLISH	P/A Melamine polish on wooden surface brushing the surface free from foreign matter, sand papering smooth, filling in all holes and applying polish and sealer before applying three coats of melamine spray.	Sft	150		
5.06	LIGHT GREEN FOCAL WALL COVERING	Providing & making 52/54" FOCAL WALL VINYL WALL COVERING#92456E-349 HEAVY CORD COLOR LT GREEN TEDLAR COATED Note: Wallpaper supplied by separate client/agency. To be considered on the existing prepared surface. Rate shall be inclusive of wall finishing.	Sqft	90.00	77.00	✓
5.07	CHEVERON WALL COVERING	Providing & making 52/54" VINYL WALL COVERING GREY BACKGROUND WHITE LINE TEDLAR COATED Note: Wallpaper supplied by separate client/agency. To be considered on the existing prepared surface. Rate shall be inclusive of wall finishing.	Sq. ft.	150.00	318.00	✓
6 GLAZING & ALLUMINIUM WORK						
6.01	ACP (ALUMINIUM COMPOSITE SHEET) CLADDING WITH FRAME	3mm thick Aluminium Composite sheet cladding of approved make as per details and drawing for signage, incl all scaffolding/wastage, joint filling with silicon, etc. complete. Trapdoor for rolling shutters will also be measured under same heading- no extra cost to be paid for hinges, locks, etc.Rate to include scaffolding till 1st floor				
a	Alluminium Corner Guard	P/F 3mm thick Aluminium Composite sheet cladding on framework of upto 50 x 25 aluminium sections	Sft	0	380	✓
a		Providing and fixing Alluminium L corner guard , with white colour powder coated, fixing with necessary hardware.	rft	25	64	✓
a		P / F Ozone make CDC - 3800 Concealed Angular Arm Door Closer for flush doors with necessary accessories	Nos	1		
b		P / F Dorset make ss pull handle Art. No SD 10 P SS with necessary accessories	Nos	1		
d		P / F Ozone make OMH-33 Lever Handle & OML-11A mortise lock with necessary accessories	Nos	1		
m		P / F Hafele/ Hettich make SS Door Stopper, with rubber cap Hafele article no. 937.53.100, as per architect's instruction	Nos	1		
7 CARPENTRY WORKS						
#REF!	WOODEN SLATS- 100mm	P/F of 100mm x 50mm pine wood slats finished on all surfaces in approved shade of laminate, spacing as given in drawing complete as per approved design & details given in drawing/Architect instruction. Rate is inclusive of all necessary hardware and material required for suspension- threaded rods, slotted angle sections, etc.	Rft	312		
#REF!	SAL WOOD DOOR FRAME	P/F sal wood door frame of section size upto 5" x 3" with 3 nos. of hold fast on each side.	Rft	21		
#REF!	SOLID DOOR	P/F Solid Door with or without Vision Panel (32 mm thk) Wooden Jamb finished with 1mm laminate on both side with 6" wide S.S Laminat band as per design & 24" x 12" Vision Panel at eye level complete as per drawing. Rate is inclusive of all necessary hardware (i.e. S.S.Handle, Hinges, Lock, Floor Spring, Door Closer, Latch or Tower Bolt, Door Stopper, PVC Buffer, 6mm Clear Glass, Frosted Film, etc				
b		Size of door upto 2100 x 900	Nos	1	1	✓
#REF!	19MM PLYWOOD PANELING / BOXING	P/F 19mm plywood as paneling as per following specs incl of all hardware, labour; in perfect line and plumb, incl of grooves as desired or specified in drawing, complete in all respects. Frame sections of upto 2" x 1.5" size can be of seasoned termite- treated Sal wood, or aluminium sections of same size.				
d		P/F 19mm plywood plain paneling with frame, with laminate	Sft	120	367	✓
#REF!	12MM BISON BOARD PANELING / BOXING	P/F 12mm bison panel as paneling as per following specs incl of all hardware, labour; in perfect line and plumb, incl of grooves as desired or specified in drawing, complete in all respects.				
c		P/F 12mm Bison panel paneling with aluminium frame of upto 2" x 1.5" pipe sections	Sft	40	12.4	✓
#REF!	FULL / LOW HEIGHT PARTITION	P/F Partition made on aluminium / MS/Sal wood frame of 2" x 1.5" sections fixed at 600 x 600, properly clamped to walls, ceiling and floor. Rate is inclusive all necessary hardware, labour, etc.				
b		P/F 8mm plywood on both sides of frame mentioned above with laminate	Sft	0	216	✓

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8		SS & MS WORKS			
8.01	(TILE GUARD) SS PROFILE	P/F of Stainless steel section edge profile protectors of size 19mm x 19mm x 1.5mm thick to protect all corners of the walls/columns in kitchen	Rft	20	46 ✓
8.02	SS KICK PLATE	P/F S.S. Kick plate on (900X200) mm door as directed same rate for all width doors	Nos	1	
#REF!	MS STRUCTURES FOR PLATFORM EX, FA, ODU, RO, DG, WATER TANKS, ETC	P/F of in M.S Frame work in sections of various sizes as required and MS chequered plate with MS supports/beams/sections at regular intervals as per detail drawings with necessary base plate and supports from walls and slab complete as per design & detail finished with approved paint. For base structure in MS for RO, DG, water tanks, etc. Detailed breakup of the weight of each section to be provided	kg	120	172 ✓
9		FALSE CEILING WORK			
9.01	GYPSUM CEILING	P/F seamless Gypsum ceiling with gyp board of 12.5mm fixed to the under side of the suspended grid formed of GI perimeter channel of size 20x27x30mm fixed along the wall by using wood screws & metal expansion raw plugs. The GI intermediate channel of size 45x15x0.90mm shall be fixed to the suspended strap hanger /GI ceiling angle at intervals not more than 1220mm. The suspended GI ceiling angle/strap hanger is to be connected with GI soffit cleat of size 37x27x25 1.6mm & it should be fixed on the roof slab/ beam by using metal expansion fasteners of 12.5mm dia. to the length of 35mm with screw at top ends, including all drops, coves etc and taping & finishing.	Sft	950	
10		MISCELLANEOUS ITEMS			
#REF!	FIXING OF WHITE GOODS	Placing in position and Fixing various equipments/accessories with required connections (for ONLY Equipments provided by SUBWAY)			
a		3 Way Sink	nos	1	1 ✓
c		SS water sinks	Nos	1	1 ✓
d		Fire Extinguisher/speaker	Nos	5	5 ✓
e		Pestoflash /incet killer only fixing	Nos	2	1 ✓
g		computer rack	Nos	1	1 ✓
h		Mop sink hook	Nos	1	2 ✓
i		Providing and fixing Clutch wire for decorative hanging light	Set	10	10 ✓
l		MS/SS 30x30mm Hanging support for electrical points size 30'x18" from ceiling suspendent	nos	1	
n		Air curtain (hung with SS Roads and Pine wood base)	Nos	1	1 ✓
#REF!	Providing and fixing Air curtain	Air Curtain Supply, Installation, testing, and certification of 1800MM wide Air Curtain with Door Micro Switch for automatic On / Off control. Air curtain shall be activated when door is opened, turned off when door is closed. Model: Eutronics EAC 5	Nos	1	
#REF!	BOH & FOH EQUIPMENT-	Loading / Unloading / Fixing / Installation of FOH / BOH equipment & Furniture	Job	4	8 ✓
#REF!	Board out signage	Flex with ms supports grids as per site requirement.	Sq. ft.	500	500 ✓
#REF!	LOCKS	P/F pad locks for RO plant cage, tank, etc. of Godrej make	Nos	1	
#REF!	SCAFFOLDING	P/E of scaffolding in bamboo/MS as per site condition. To be paid only in extreme cases with prior approval from Project manager. Cost to be site specific	Sft	1	1 ✓
#REF!	SANITARY FIXTURE	Providing and fixing Anti Cockroach Jaali. (Make - Sanjay Chilly)	Nos	4	4 ✓
#REF!		Providing and fixing 4" plain Jaali. (Make - Sanjay Chilly)	Nos	4	4 ✓
#REF!		Providing and fixing SS extension nipple (Make - Ashirvad)	Nos	8	8 ✓
#REF!		P/F ball valve 32mm for sink. Make - ZOLOTO	Nos	2	2 ✓
#REF!		Fixing of diversy with all accessories	Nos	1	1 ✓
#REF!		Supply, Fixing of Wall Mounting Paper Dispensers	Nos	1	1 ✓
10.16	UNLOADING OF SUBWAY MATERIAL	Unloading and placing in place as per approved layout, various SUBWAY procured materials and equipments			
a		Furniture	Lot	1	1 ✓
c		Speed Oven	Nos	1	1 ✓
d		Baking Oven	Nos	1	1 ✓
e		Smallware	Lot	1	1 ✓
g		Refregeration	Lot	1	1 ✓
h		Servo	Nos	1	1 ✓
i		DMB	Lot	1	1 ✓
			TOTAL OF CIVIL & INTERIOR		

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STANDARD CIVIL INTERIOR MEP & ASSOCIATED WORKS BOQ (Electrical)

S.NO.	HEAD	DESCRIPTIONS	UNIT	QUANTITY	As Per Site Qty
1		LT CABLES & ENDTERMINATIONS			
		Supply and laying of Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand construction, of only approved make: Laying rates to include for all required Cable Clamps, Cable Identification Tags at required intervals,& other items like cable ferrules / cable-tags at each end of the cables laid. For the same Cross Sectional area of Cables, laying rates shall be the same whether it is Copper or Aluminum conductor cables, or whether it is XLPE or PVC insulation Similarly, laying rates shall be the same for Armoured & Un-armoured Cables of the same Cross section. Cable trays will be measured separately. IS No 7098, Part 1- XLPE Cables IS No 1554, Part 1, 1988- PVC Cables, IS 694: 1990 SINGLE CORE COPPER CABLES.			
1.01		Supplying of double compression nickel plated brass cable glands of cosmos / comet make for 1.1 KV grade L.T internal cables - XLPE / PVC / SWA / PVC (Armoured / unarmored) Aluminum / Copper PVC insulated and sheathed cables of sizes as below including supply of tinned copper/ Aluminum lugs of dowel / Cosmos, supply of number ferrules etc. all necessary G.I consumables & hardware other material complete as per approved drawings and as per directions of site-in-charge with appropriate size of gland indicated below :			
		Cable laying outdoor shall include cost of excavation of trench up to 0.75M, sand cushion, brick protection, refilling, compacting etc.,			
		XLPE Insulated & Steel Armoured Aluminium Conductor Cables			
1.11		4 Core X 35 Sqmm	Mts		7
1.13		4 Core X 16 Sqmm	Mts	20	22
1.13a		Endterminations	Nos.	4	4
1.15		4 Core X 6 Sqmm	Mts	50	6
1.15a		Endterminations	Nos.	8	8
		TOTAL FOR LT CABLES & ENDTERMINATIONS			
2		MCB DISTRIBUTION BOARDS			
		Supply, Installation, Testing and Commissioning of MCB Distribution board Wall mounted MCB DBs with MS wire way box on top / bottom & on sides. MCBs shall be rated for 10kA with current limiting feature. Dummy ways to be covered with blank plates. All outgoing ways shall be labelled & laminated.			
		Note:			
		1) Separate Earth bus/Neutral bus for each phase shall be provided			
		2) Each Circuit shall have yellow ferrules with circuit number.			
		3) Accessories required for installation of DB's on Wall/Column/Gyp Board shall be considered			
		4) Incase more than 1 DB installed at the same place, 'DB' shall be covered with powder coated wireways all around and upto ceiling to receive incoming circuits. Refer DB frame details.			
		5) Laminated A3 OR A4 size SLD copy shall be pasted inside DB door			
		6) Safe shroud for Neutral link shall be provided			
2.01		7 Segment DB with IP42- #IK 09 WITH METAL DOORS	Nos	1	1
		5 Nos TP MCBs as per SLD			
		1 No MCCB, as per SLD			
		8 way TPN as per SLD			
		Required no of ELCB/Breakers			
2.02		8WAY- SPN DB WITH IP 42- #IK 09 WITH METAL DOOR	Nos	1	1
		Incomer : 25A DP ELCB, 100mA - 1no.			
		Outgoings : 8 Nos,10A SP MCBs			

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3	CIRCUIT MAINS			
	Circuit mains using 1.1kV grade PVC insulated FRLS copper conductor (MSCC) wires / PVC insulated PVC sheathed single core cables drawn in 2mm thick PVC FRLS conduit or in existing raceway. Rates quoted shall include supply of conduits, wires & other conduiting accessories, PVC pull / junction boxes, G.I fish wire etc. Colour coding shall be used for conduits to differentiate lighting, RP, UPS, emergency lighting circuits & point wiring. All circuit terminations shall be provided with solder less crimping type copper sockets / lugs, ferrules indicating source code on load side & load code on source side. There shall not be any joints in the circuits, only looping is allowed in terminal blocks & in switches / socket outlets.			
	NOTE:			
	1) Conduits running above false ceiling in multiples shall be supported by Slotted GI 'C' channel at distance not more than 0.5mtrs intervals.			
	2) Accessories shall includes Bends, Collars, junction boxes, Spacers, saddles, screws, Flexibles			
	3) Conduits shall be ISI marked			
	4) The number of wires drawn in each conduit shall be as per BIS 694			
	5) No different phases shall be drawn in same conduit			
	6) Conduit joints shall be done with threading proper accessories only			
3.01	2R x 2.5 Sq.mm + 1R x 1.5 Sqmm. FRLS multi strand copper conductors in 25mm dia. PVC Conduit for Switch Boards / 6A Socket Raw / UPS	Rmt	225	176
3.02	2R x 4 Sq.mm + 1R x 1.5 Sqmm. FRLS multi strand copper conductors in 25mm dia. PVC Conduit for 16 A Industrial / single phase Sockets	Rmt	250	49
4	POINT WIRING			
4.01	POINT WIRING - Switch Control			
	POINT WIRING SWITCH CONTROL - Supply, Installation, Testing and Commissioning of point wiring using 3 x 2.5 Sqmm 1100V grade stranded FRLS wires of approved make drawn in 19 mm dia 2mm thick rigid PVC conduit of approved make including all conduit accessories such as bends, junction boxes etc., complete. The wiring shall be done in complete looping in system. The switches used shall be moulded fixed in factory made integral GI box units with clear earthing facility. The wiring shall be complete with ceiling roses, switches and all consumables.			
A	PRIMARY LIGHT POINT - Switch Control			
	I. Primary light point means wiring from first MCB to the first light out let. (Considerd Appx. 6Mtrs to 1st light point)			
	II. To include the incoming lighting circuit from MCB - DB to switch.			
	III. To include the sub circuit if it is drawn from adjacent switch box			
	IV. For drops from the ceiling flexible conduit shall be included.	No.	7	8
B	SECONDARY LIGHT POINT - Switch Control			
	I. Secondary light point means extention of light out let only from existing. Primary point to be controlled by the existing switch of Primary point only.(Considerd Appx.2.5 mtrs From 1st light point)			
	II. For drops from the ceiling flexible conduit shall be included.	No.	30	36
	TOTAL FOR POINT WIRING			
5	POWER RECEPTACLES			
	Supply, Installation, Testing and Commissioning of the following Modular Switch, sockets with modular front plate, and accessories as per the site conditions.			
	The quoted rate for power socket outlets shall include			
	a. Socket outlets - 5pin combi/intel sockets			
	b. Switches			
	c. 14SWG metal boxes with knockout on all sides			
	d. Front plate of required colours with accessories			

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		Note: Safety shutters to prevent accidental contact with live parts shall be provided.			
5.01		6A single phase socket controlled by 10A switch (Power and UPS)	Nos.	44	44
5.02		16A single phase industrial socket	Nos.	12	12
5.03		16A single phase socket controlled by 16A SP MCB	Nos.	8	8
5.04		63A single phase industrial socket	Nos.	3	3
6		LIGHT FIXTURES			
		Supply Installation, Testing and Commissioning of Light fixtures and lamps with all accessories, fixing on the wall / ceiling/false ceiling with wooden blocks, screws ,hardware's ,suspended chain hooks as required as per the site conditions (including the earthing of fixture)			
		Light fixtures complete with accessories like control gear, low loss (<5W) HF Electronic ballast , HPF condensor (PF shall be >0.85 lag.) , energy efficient high lumen output fluorescent tubes / CFL lamps etc.			
		Note : The make & the catalogue no. mentioned here is only indicative & any of the make mentioned in recommended list of makes is preferred.			
		The electronic / Digital ballast shall be with THD < 10%. & low loss copper ballast.			
		Whether explicitly mentioned or not vendor shall consider light fixtures with necessary powerfactor improvement condensers. b.Unless specified all light fixtures shall be considered with electromagnetic ballasts. The loss of ballasts shall not exceed 5.5 Watts c.Vendor shall consider necessary fixing hardware and components to install light fixtures. The hardware viz., anchor fasteners, suspending GI chains, down rods will not be measured separately. Vendor shall			
		Light Fixtures. Quoted rate shall include mounting bracket and lamps			
6.05		1'x4' Led Panel Light with hanging arrangements (includes Clutch	No's		
6.06		Pendent light 20 wat	No's	7	
6.1		Linear Light 8 Feet	No's	1	1
6.11		Linear Light 4 Feet	No's		
6.12		Linear Light 2 Feet	No's	1	1
6.13		1200mm Wide Ceiling Fan	No's		
7		TELEPHONE & LAN RELATED WORKS			
		Telephone Cables. 0.5 mm dia below listed multi pair screened / unarmoured PVC insulated copper conductor jelly filled cable or PVC insulated copper conductor wire drawn in PVC conduit. Rate shall include cost of necessary draw box.			
7.01					
7.07		Supply and laying of CAT6 UTP cable in 19 mm dia PVC conduit for Lan.	Rmt	180	160
7.08		SITC of CAT6 information outlet with face plate and box	No.	16	16
7.09		SITC of RJ11 telephone outlet with plate and box	No.		
		TOTAL FOR TELEPHONE & LAN RELATED WORKS			
8		CABLE TRAYS			
		Cable trays - made out of 2 mm thick Hot dip galvanised sheet			
		Supply and Installation of Hot dip GI Ladder type cable tray along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete. Hardware and anchor fasteners used for installation of cable trays shall not be measured separately.			
8.02		Size of Cable Tray :300 mm x 50 mm	Rmt	30	40
8.03		Size of Cable Tray :200 mm x 50 mm	Rmt	10	10
		Perforated cable Tray made out of 2 mm thick Hot dip galvanised sheet.			

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		Supply and Installation of Hot dip GI perforated cable tray with cover along with required angle supports, with coupler plates, Anchor bolts and nuts etc complete and the tray should be fitted on the wall / Ceiling etc. complete.			
8.07		Size of Cable Tray : 150 mm x 50 mm	Rmt	4	4
10.2		Supply and installation of following sizes of MS conduit in recess / on surface including all accessories, MS inspection bends, GI fish wire, fixing hardware etc. including chasing the wall/floor and plastering the chased portion and making good the damages etc. complete as required.			
10.2.1		20 mm dia	M	200	180
10.2.2		25 mm dia	M	70	65
10.3		SITC of FRLS circuits pulled through PVC MMS conduits clamped on over head slab, laid over false ceiling or in wall chases. Rate to include making good the wall chases with cement mortar.			
d		4X6.0 + 1X4.0 sq.mm. CU FRLS wires, circuit from DB or panel to power point (Equipment)	Rmt	20	28
e		2X6.0 + 1X4.0 sq.mm. CU FRLS wires, circuit from DB or panel to power point (Equipment)	Rmt	15	24
10.4		EARTH STRIPS			
		GI/Cu earth strips on cable tray or below ground as per site condition. All Cu. Strips shall be run in PVC heat shrinkable sleeve & mounted on insulation mounts. Cost of civil works shall be included for strips laid below ground.			
10.4.13		1C X 6 sq. mm.	Rmt	40	54
		CCTV SYSTEM :			
1.0		2MP HD Network Mini IR Camera. 1/3" Progressive scan CMOS. H.264 & MJPEG dual-stream encoding. DWDR, day/night(ICR), 3DNR, AWB, AGC, BLC. Multiple network monitoring : web viewer, CMS(PVMS) & Smart Phone(PMOB). 3.6mm fixed lens (2.8mm optional) Min IR LEDs Length 30m. IP64, POE. (Should consider POE switch as inclusive)	Nos	1	
3.0		Supply and laying of CAT6 UTP cable in 19 mm dia PVC conduit for Lan.	Mtrs	200	161
4.1		P/F Hikvision DVR (4Ch DVR 1Sata K1 Series)	Nos	2	1
4.2		P/F Hikvision (2MP Bullet IRP Series)	Nos	1	6
4.3		P/F WD (Western Digital HDD Dvr Compiatable 4TB / Toshiba)	Nos	1	1
4.4		P/F LED (21" LED Monitor - LG/Samsung) with wall mount stand	Nos	1	1
4.5		P/F SMPS 12V 20 Amps Power supply .	Nos	1	1
4.6		P/F BNC (BNC Connector)	nos	8	8
4.7		P/F DC (DC Pin Connector)	Nos	16	16
		TOTAL FOR CCTV SYSTEMS			
		PA SYSTEM :			
1.00		Metallic Grill, high quality type music speakers to be fixed flush with false ceiling with line matching transformer for direct connecting to 100/70 V output line. 6 Watt Output	Nos	3	
2.00		Metal Cabinet Speakers Wall mounted - 6 Watts output (Non False Ceiling Areas & Service Rooms) 240 Watts	Nos	2	
			Set	1	
4.00		Control Cables : 2C x 1.0 mm ² , Stranded Copper conductor, Type AST 1 PVC insulated, Armoured FRLS Cable 650 V as per IS 1554, with GI saddle spacers every 0.3 mtr with Single compression Cable Glands, ABS Junction Boxes (wherever required), terminals, Ferruling complete. POLYCAB/CALLIPLAST/KEI including conduits wherever required	Mtrs	110	
5.00		Music Source to play CD/MP3/Pendrive input	Set	1	
6		Servo 3phase	Nos	1	1

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STANDARD CIVIL INTERIOR MEP & ASSOCIATED WORKS BOQ (Plumbing)

S.NO.	HEAD	DESCRIPTIONS	UNIT	QUANTITY	As Per Site Qty
I		SANITARY FIXTURES			
9		Fixing liquid soap dispenser of approved make. Including screws, washers and rawl plug etc. MAKE Euronics ES 175 ABS SOAP DISPENSER-400ML	Nos.	1	1
12		Supplying, installing and testing 15 mm CP ANGLE VALVE with CP flanges including necessary fixing materials etc.	Nos.	10	11
21		P/F STANDARD INDIAN WC for staff Area (PARRYWARE/HINDWARE) size 20"x16"x10" deep	Nos.		
22		Providing & fixing bottle trap of Jaquar make	Nos.	1	1
27		P/F Sink Mixer, Swinging Casted Spout. (Wall Mounted Model) Make- Jaquar	Nos.	3	3
28		P/F Sink Mixer, Swinging Casted Spout. (Table Mounted Model) Make- Jaquar	Nos.	1	1
41		Providing & Fixing Brass Non Return Vavles of ISI mark. Rates are for BRASS valves			
		25mm	Nos	-	
		32mm	Nos	-	
		40mm	Nos.	3.00	3.00
34		DETAILS- Sanitary (A) : Providing and fixing in position storage type hot water electrical horizontal/ vertical heaters with copper container, insulation and stove enameled M.S jacket, thermostatically controlled immersion heater, with pilot lamp,15/20 mm dia inlet with non-return valve and 15/20 mm dia outlet including making connections complete in all respects.(wall mounted with suitable M.S bolt and nuts) of approved make. Recold/Bajaj			
		Geyser Capacity 10 liters {Refer Details- Sanitary (A) below}	Nos.	1	
		Geyser Capacity 25 liters {Refer Details- Sanitary (A) below}	Nos.		1
II		INTERNAL WASTE DRAINAGE WORKS			
1		Providing, fixing, jointing & testing in position the following UPVC pipes conforming to IS:4985 of 6 Kg/sqcm for drainage system cut to required length including all necessary fittings and specials. Pipe to be laid below ground level in trenches upto required depth, including excavation in all kind of soil (hard rock) dewatering, refilling, watering, ramming and removing the surplus excavated material and shifting within the site limit as directed by site incharge and making good the same complete as required.			
		a)75 mm dia	Rmt	12	10
		b)110 mm dia	Rmt	18	16
		c)160 mm dia (VERTICAL SHAFT to EXTERNAL DRAIN)	Rmt		
2		Painting cast iron/cast iron spun soil, waste pipes and fittings with synthetic enamel paint of any colour as per pipe colour code over a coat of primer (of approved quality).			
		a)75 mm dia	Rmt	6	6
		b)100 mm dia	Rmt	12	10
		c)150 mm dia	Rmt		
5		Supplying, fixing and testing PVC " NAHANI " trap(heavy duty hinged type) with brass CP frame & cover (150mmx150mm). Trap of 100mm dia. Inlet and 75mm dia outlet . (The frame and grating shall be approved by Architect)			
		100 mm dia outlet	Nos	4	4
5.1		Supplying, fixing and testing PVC " FLOOR " trap(heavy duty hinged type) with brass CP frame & cover (150mmx150mm). Trap of 100mm dia. Inlet and 75mm dia outlet . (The frame and grating shall be approved by Architect)			
		75 mm dia outlet	Nos	1	1
14		Providing,Fixing testing and commissioing of food grade, 3 layer, Sintex Tank storage type water tank fixed to Floor with foundation/ anchor bolts & nuts, complete including making connection with connections pipe on inlet and outlet. (For Terrace)			
		350 litres	Nos	1	1
		250 litres			
16		P/F of Crompton Greaves and equivalent water pump to lift water upto G+3			
		1.0 HP	Nos	1	
		1.5 HP	Nos		1
17		P/F gully trap complete with SS grating, brick masonry chamber and water tight SS cover with pull out handle with frame of 600x600mm inside size complete same as above but 300x 300mm	Nos	3	3
III		INTERNAL WATER SUPPLY SYSTEM			

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S.NO.	HEAD	DESCRIPTIONS	UNIT	QUANTITY	As Per Site Qty
1		Supplying, installing, testing and commissioning of approved make uPVC schedule 40 pipes and fittings conforming to ASTM D-1785. Quoted rate shall include necessary Fittings in SCH 80 as per ASTM D 2467 like, bends, elbows, reducers, collars, flanges, saddles, adapters, etc., with necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge and also including primer and solvent for joints.			
		a) 15 mm dia uPVC pipes	Rmt.	35	36 ✓
		b) 20 mm dia uPVC pipes	Rmt.	45	48 ✓
		c) 25 mm dia uPVC pipes	Rmt.	25	30 ✓
		d) 32 mm dia uPVC pipes	Rmt.	5	5 ✓
3		CPVC Pipe in chase/Embedded in Wall :			
4		CPVC Pipe (Exposed) :			
5		Ball Valve :			
		Providing & Fixing forged CPVC ball valves with ball/stem, union/fange,washer, nuts & bolts, rated to temperature of 85 deg. C and tested to a pressure not less than 15 kg/sq.cm. Including coating against mechanical damage as per manufactures sepcification.			
		a) 20 mm dia	Nos.	2	2 ✓
6		Butterfly Valve: BRASS			
11		Providing Flexible water pipe to connect Angle Valve to faucet	Nos.	10.00	10.00 ✓
IV		EXTERNAL DRAINAGE SYSTEM			
3		Construction of inspection chamber with 230mm best quality approved Table Moulded bricks in CM 1:4 over a bed of 100mm thick PCC 1:4:8, internal walls plastered in CM 1:3 and external wall with CM 1:6 with sponge finish, benching and channelling in PCC 1:3:6. Supplying and fixing RCC square frame & cover of size 450 x 450mm (heavy duty), PVC steps in position as per the detailed drawing. The quoted rate shall also include necessary excavation and internal size of the chamber 450 x 450mm maximum depth not exceeding 800mm			
		Manhole cover/pvc steps : Southern concrete Industries.	Nos	1	1 ✓
		RO 50ltr	Nos		1 ✓

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NO.	HEAD	DESCRIPTIONS	UNIT	QUANTITY	AS PER SITE Qty
1		Supplying, installing, testing and commissioning of approved make uPVC schedule 40 pipes and fittings conforming to ASTM D-1785. Quoted rate shall include necessary Fittings in SCH 80 as per ASTM D 2467 like, bends, elbows, reducers, collars, flanges, saddles, adapters, etc., with necessary drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge and also including primer and solvent for joints.			
		a) 15 mm dia uPVC pipes	Rmt.	35	36
		b) 20 mm dia uPVC pipes	Rmt.	45	48
		c) 25 mm dia uPVC pipes	Rmt.	25	30
		d) 32 mm dia uPVC pipes	Rmt.	5	5
3		CPVC Pipe in chase/Embedded in Wall :			
4		CPVC Pipe (Exposed) :			
5		Ball Valve :			
		Providing & Fixing forged CPVC ball valves with ball/stem, union/fange, washer, nuts & bolts, rated to temperature of 85 deg. C and tested to a pressure not less than 15 kg/sq.cm. Including coating against mechanical damage as per manufactures sepcification.			
		a) 20 mm dia	Nos.	2	2
6		Butterfly Valve: BRASS			
11		Providing Flexible water pipe to connect Angle Valve to faucet	Nos.	10.00	10.00
V		EXTERNAL DRAINAGE SYSTEM			
3		Construction of inspection chamber with 230mm best quality approved Table Moulded bricks in CM 1:4 over a bed of 100mm thick PCC 1:4:8, internal walls plastered in CM 1:3 and external wall with CM 1:6 with sponge finish, benching and channelling in PCC 1:3:6. Supplying and fixing RCC square frame & cover of size 450 x 450mm (heavy duty), PVC steps in position as per the detailed drawing. The quoted rate shall also include necessary excavation and internal size of the chamber 450 x 450mm maximum depth not exceeding 800mm			
		Manhole cover/pvc steps : Southern concrete Industries.	Nos	1	1
		RO 50ltr	Nos		1

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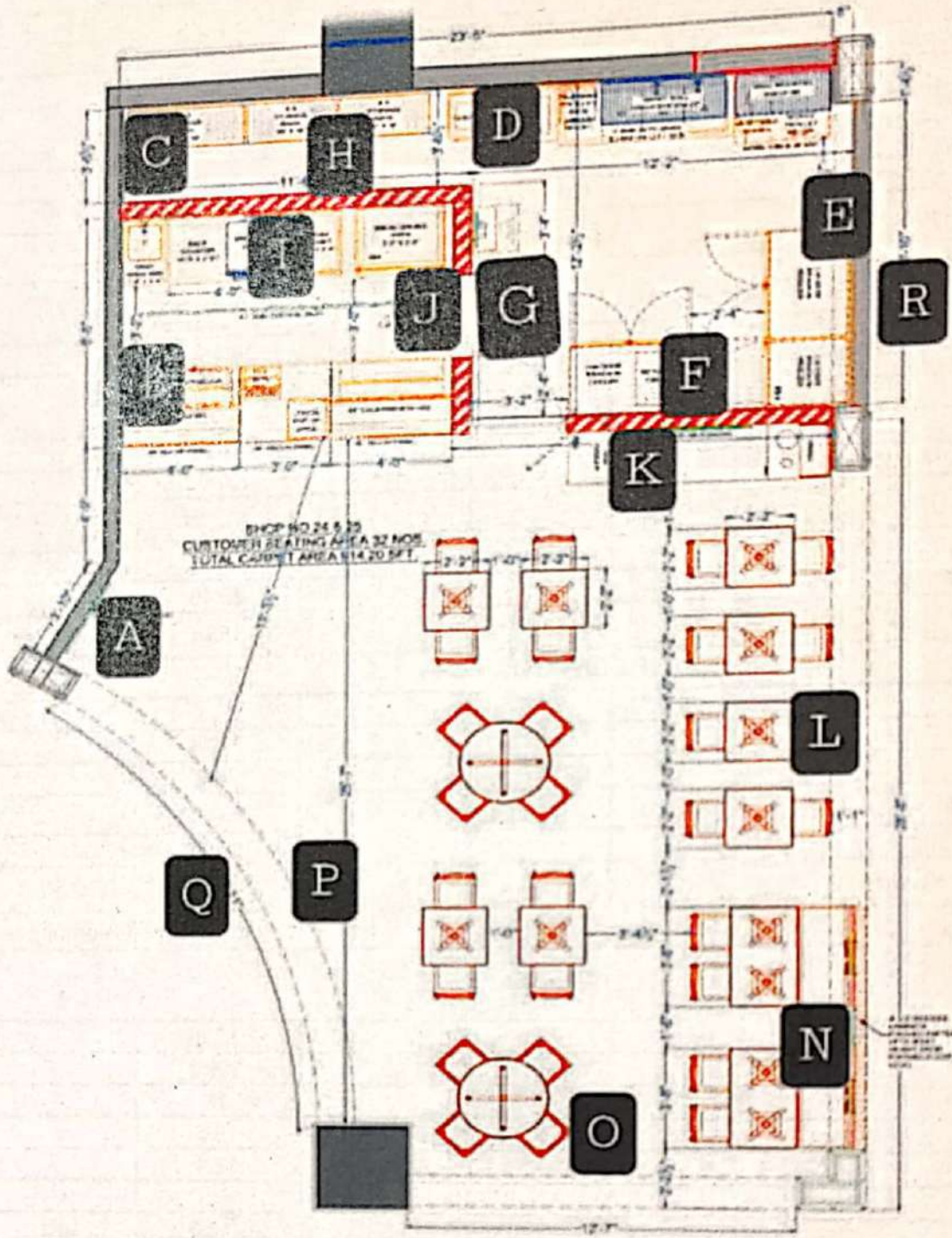
Carpentry work

ITEM DESCRIPTION	Length	Breadth	Height		Total size	
Green wall paper		16'4"	8'		187.79	✓
Entry column(A)		6'6"	8'		52	✓
Entry column(A)		4'6"	3'5"		15.34	✓
Kitchen panel wall E		1'8"	7'3"	*2	24.07	✓
Kitchen panel wall E		13'	4'		52	✓
C		10'	3'8"		36	✓
Header wall		2'4"	11'4"		26'39"	✓
Rufter wall N	2*4		8'	27 pcs	216	✓
Table fitting				12 pcs		
Door lock				1 pcs		
Corner guard				1 pcs		
Final measurement					583.2	sqft

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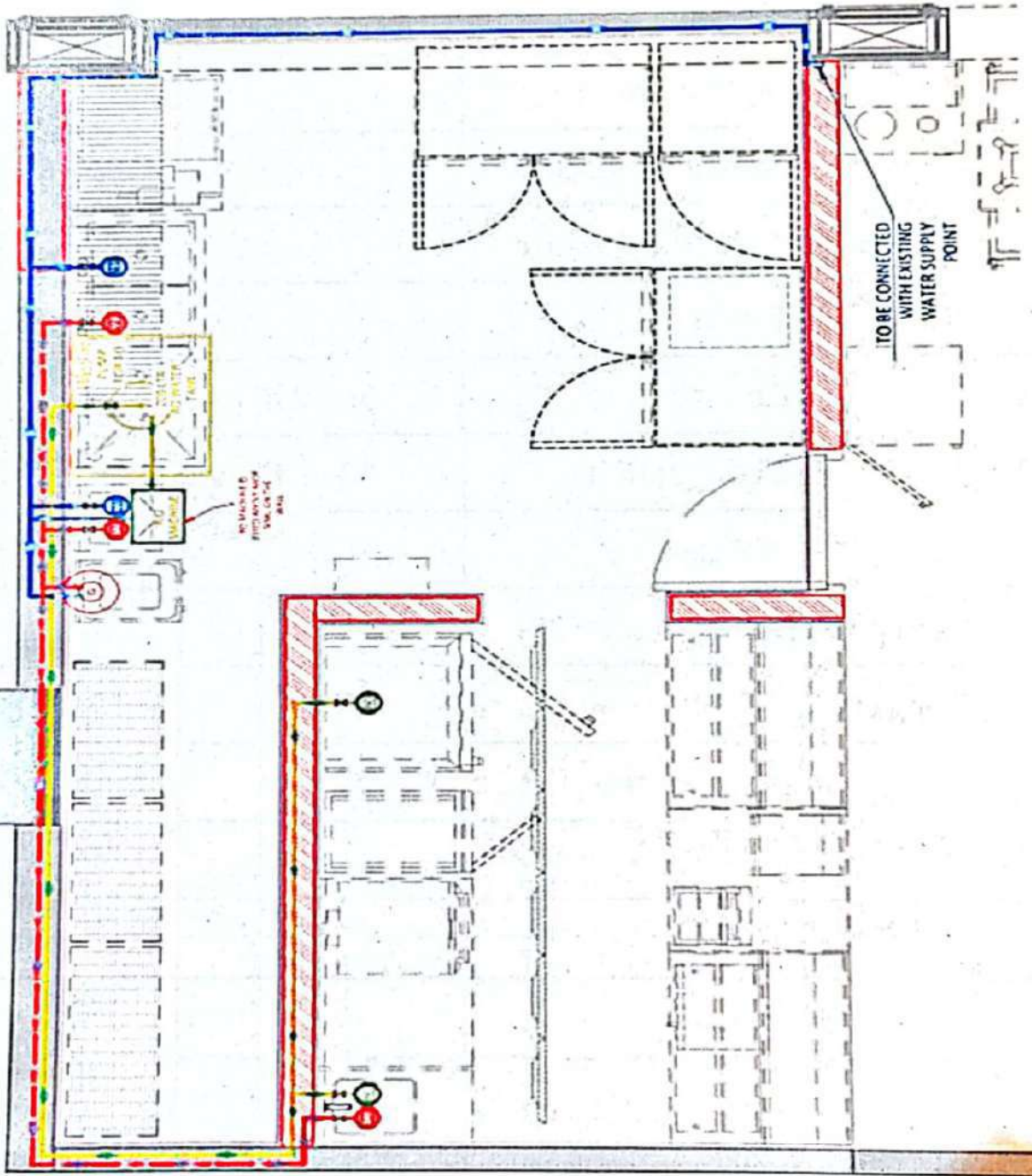
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REFERENCE DRAWING FOR CIVIL WORK



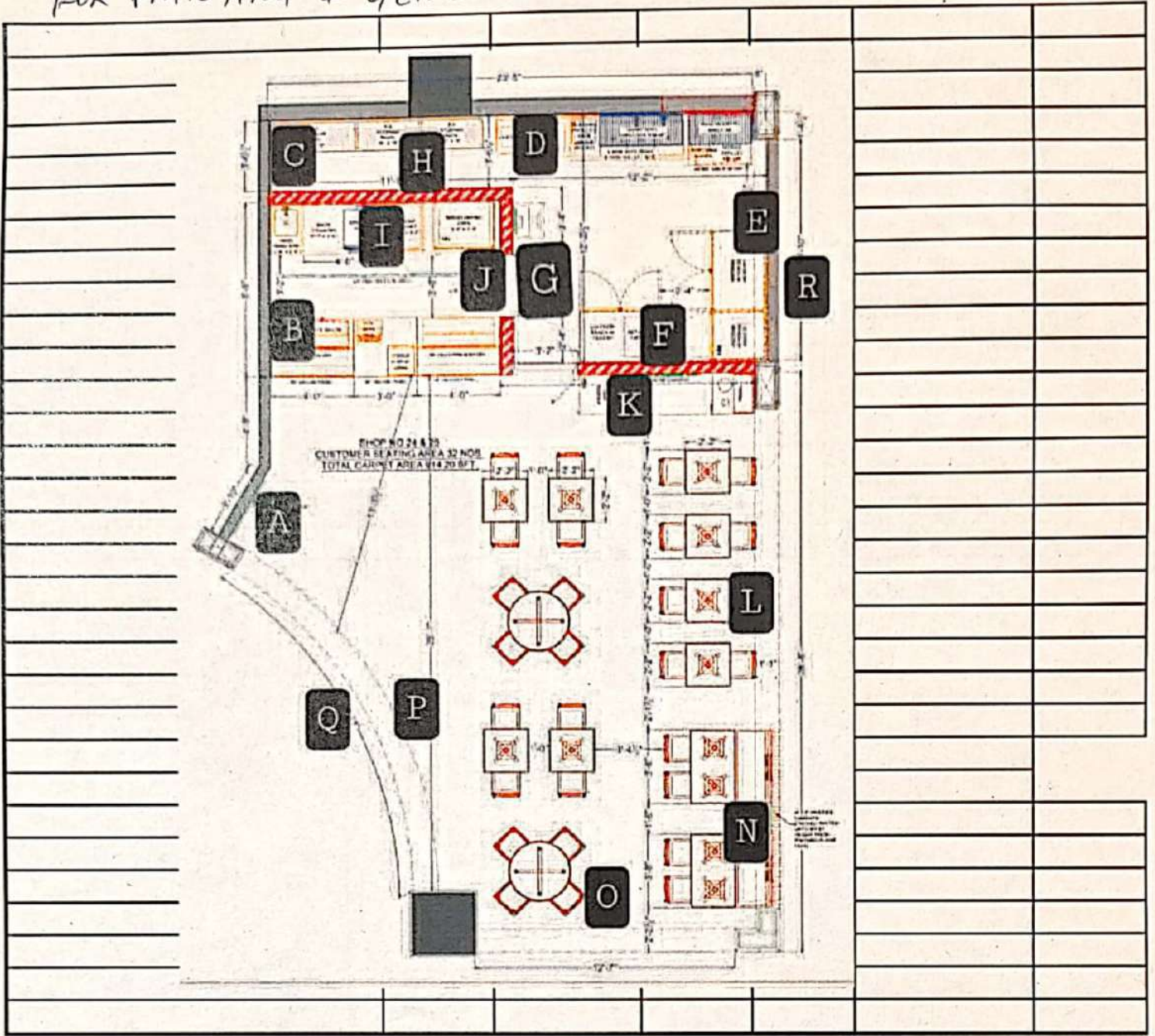
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PLUMBING LEGEND (WATER SUPPLY)	
DESCRIPTION	
20mm TAP, (HWS) HOT WATER SUPPLY WITH VALVE AS/REQUIRED	
20mm TAP, (RWS) R.O WATER SUPPLY WITH VALVE AS/REQUIRED	
20mm TAP, (DWS) DOMESTIC WATER SUPPLY WITH VALVE AS/REQUIRED	
(HWS) HOT WATER SUPPLY LINE	
(RWS) R.O WATER SUPPLY LINE	
(DWS) DOMESTIC WATER SUPPLY LINE	
BALL VALVE OR ANGEL VALVE AS/REQUIRED.	
GEYSER AS/REQUIRED	
R.O MACHINE AS/REQUIRED	
200 LTRS RO WATER TANK AS/APPD. TO BE HANGED WITH R.C.C SLAB AS/SITE CONDITION TAKING INTO ACCOUNT OF G.W.P	



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