

**TENDER SCHEDULE FOR 4TH FLOOR CIVIL & PLUMBING WORK AT  
INDIRA GANDHI CO-OPERATIVE HOSPITAL,KADAVANTHRA**

		<b>Date:</b>	<b>Tender No:</b>		
<b>Bill of Quantities</b>					
<b>SI No</b>	<b>Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate</b>	<b>Amount</b>
<b>PART I - CIVIL WORK</b>					
1	Solid block masonry using pre cast solid blocks ( Factory made) of size 30x20x20cm or nearest available size confirming to IS 2185 Part I of 1979 for super structure up to floor two level thickness 20cm and above in: CM 1:6 ( 1 cement : 6 coarse sand) etc complete	103.41	Cum		
2	12 mm cement plaster of mix: 1:4 ( 1 cement : 4 fine sand)	1866.59	Sqm		
3	15 mm cement plaster on the rough side of single or half brick wall of mix:1:4 (1 cement :4 fine sand)	451.37	cum		
4	Centering and shuttering including strutting, etc. and removal of form for: Lintels, beams, plinth beams, girders bressumers and cantilevers	92.83	sqm		
5	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer - in-charge. Note:- Cement content considered in this item is @ 330 kg/ cum. Excess or less cement used as per design mix is payable or recoverable separately. All work above plinth level upto floor V level	6.36	Cum		

6	Providing and fixing Steel reinforcement for R.C.C work including straightening, cutting, bending, placing in position and binding all complete upto plinth level using Thermo - Mechanically Treated bars of grade Fe-500D or more	858.44	kg		
7	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	2317.95	Sqm		
8	Finishing with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specifications: Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of special primer applied @ 0.75 ltr /10 sqm	1418.68	Sqm		
9	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work	447.91	Sqm		
10	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/ 10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm)	451.37	Sqm		
11	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.On steel work	93.51	sqm		
12	Providing and laying Vitrified tiles of size 1200mm x 600mm of Eternia range of Kajaria Tiles or Equivalent (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand), including grouting the joint with	483.41	Sqm		

	white cement & matching pigments etc. complete. Size of Tile 1200mm x 600mm				
13	Providing and laying Vitrified tiles in different sizes of size 1200mm x 600mm of Eternia range of Kajaria Tiles or Equivalent (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS : 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately). Size of Tile 1200mm x 600mm	318.77	Sqm		
14	Providing and fixing 18 mm thick gang saw cut, mirror, polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations, of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 ( 1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels. Area of slab over 0.50 sqm	12.31	Sqm		
15	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	0.97	Cum		

16	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)Second class teak wood,30 mm thick shutters	37.80	Sqm		
17	Providing 40x5 mm flat iron hold fast 400 mm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 300x100x150cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	18.00	Nos		
18	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete. 125x70x4 mm (ordinary type)	54.00	Each		
19	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	18.00	Each		
20	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 200x10 mm	36.00	Each		
21	Providing and fixing chromium plated brass handles with necessary screws etc. complete: 125 mm	36.00	Each		
22	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer(having brand logo with ISI, IS :3564, embossed on the body, door weight upto 36kg to 80kg and door width from 701mm to 1000mm),with double speed adjustment with necessary accessories and screws etc.complete.	18.00	Each		

23	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in diSFerent plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge.	24.00	Sqm		
24	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	16.00	Each		
25	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS : 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminnium snap beading for glazing /paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge.(Glazing, paneling and dash fasteners to be paid for separately):For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	129.99	kg		

26	For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber/ neoprene gasket required (Fittings shall be paid for separately) Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micorn)	210.85	kg		
27	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):	28.00	Sqm		
28	Providing and fixing chromium plated brass butt hinges with necessary chromium plated brass screws etc. complete. 75x65x4 mm (heavy type)	64.00	Each		
29	Providing and fixing casement handle made of zinc alloyed (white powder coated) for uPVC casement window with necessary screws etc. complete.	32.00	Each		
30	Providing and fixing bright finished brass casement window fasteners or peg stays to windows/ ventilators with necessary welding and machine screws etc. complete.	32.00	Each		
31	Providing and fixing M.S. Grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.Fixed to openings/ wooden frames with rawl plugs screws etc	521.26	kg		
32	Providing and fixing white vitreous china extended wall mounting water closet of size 780x370x690 mm of approved shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including	<b>16.00</b>	Each		

	seat cover, and cistern fittings, nuts,bolts and gasket etc complete.				
33	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.	16.00	Each		
34	Providing and fixing CP Brass Single lever telephonic wall mixer of quality & make as approved by Engineer in charge. (a) 15 mm nominal dia	16.00	Each		
35	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:White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P.brass pillar taps	16.00	Each		
36	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 453x357 mm	<b>16.00</b>	Each		
37	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour.Waste coupling 31 mm dia of 79 mm length and 62mm breadth weighing not less than 45 gms	16.00	Each		
38	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	16.00	Each		
39	Supplying and fixing CP Towel rod 60cm or nearest available length including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	16.00	Each		

40	Supplying and fixing CP Health Faucet superior quality ( Jagur or equivalent make ) including cost of materials and labour charges etc complete as per the direction of site Engineer-in-charge.	16.00	Each		
41	Providing and fixing C.P. brass shower rose with 15 or 20 mm inlet : 100 mm diameter	15.00	Each		
42	Providing and fixing C.P. shower arm with 100 MM Model no:F5005101OT manufactured by CERA	15.00	Each		
43	Providing and fixing Corner glass shelf Model no:F7040102SS manufactured by CERA	16.00	Each		
44	Providing and fixing Robe hook Mode no.F5015108CH manufactured by CERA	16.00	Each		
45	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.	45.67	Sqm		
<b>TOTAL AMOUNT FOR CIVIL WORK</b>					
<b>PART II - PLUMBING WORK</b>					
A	<b>SANITARY FIXTURES ( Labour Only )</b>				
1	Fixing at site in position colour or white glazed vitreous china wall mounted type (European style) water closet with C.P bolts, nuts, soild white plastic seat and lid, PVC brass hinges and rubber	15.00	EACH		

	buffers cutting and making good the walls and floors wherever required				
1.1	Fixing of Vitreous China wall mounted European water closet (with concealed 'P' trap of IS specification make and approved by the consultant) with MS / CI chair brackets, fischer bolts with CP bolts / nuts and solid plastic seat and lid with heavy duty CP hinges and rubber buffers and flap etc. The work shall include cutting making of walls and floors etc. Notes: Necessary consumables like brass screws, CP extension nipple of approved make, dia and length, wooden plugs, white cement, sealants etc., required if any, shall be arranged by the contractor. Only drilling machines shall be used for making the holes in the walls for fixing, no wall jumper and hammer will be allowed. WC Common areas	1.00	EACH		
2	Fixing site in position Concealed cistern flushing with wall mounted frame installation kit and P type drain pipe connection set complete include cutting and making wood the walls & floors wherever required.	16.00	EACH		
3	Fixing at site in position C.P abluion spray health faucet with eye hook, one metre long flexible tube with wall flange all compete including cutting and making good the walls wherever required.	15.00	EACH		
4	Fixing at site in position white/colour vitreous china wash basin with C.I/MS brackets painted white, C.P brass waste coupling of standard pattern, connection tube and union, including cutting and making good the walls wherever required complete.				
	a. wash basin Falt Back	15.00	EACH		
	a. wash basin Conuter type	1.00	EACH		

5	Fixing at site in position 15mm dia angle valve with CP wall flange etc complete with wall flange including cutting and making good the walls wherever required.	32.00	EACH		
6	Fixing in site in position 15mm CP Ceiling shower including cutting and making good the walls wherever required.	15.00	EACH		
7	Fixing site in position concealed Single liver divertor (high flow) with wall flange full set including cutting and making good the walls wherever required. Concealed part & Open Part	15.00	EACH		
8	Fixing at site in position 15mm dia C.P brass bib cocks with wall flange including cutting and making good the walls wherever required.				
	a. Bath Spout	15.00	EACH		
	d. Pillar trap	16.00	EACH		
<b>B</b>	<b>INTERNAL DRAINAGE (Including material &amp; Labour)</b>				
15	Supply & Fixing at site position u PVC pipe of 6kg/cm <sup>2</sup> (IS:4985) including injection moulding fitting with bosses where required e.g. tees, bends, coupling and adapters and jointing solvent cement with adhesive approved by manufactures including cutting and making good the walls and floors or surface mounted with clamps as required at site				
	a. 160mm OD		METER		
	b. 110mm OD	120.00	METER		
	c. 75mm OD	100.00	METER		
	d. 63mm OD	50.00	METER		
	e. 50mm OD	40.00	METER		
	f. 32 mm 10 Kg		METER		
16	Same as specification Item No: 16 but for type A pipes (For Rain water pipes)				
	a. 160mm OD	0.00	METER		
	b. 110mm OD	60.00	METER		

17	Supply & fixing at site in position uPVC fabricated floor trap & base tee (if needed)				
	a. 110 x 75 mm dia Multiple floor trap deep seal	16.00	EACH		
18	Supply & fixing at site in position slotted rails in toilet & duct area (including rail leg, U bolt, Nut, washer & anchor fastener 2.5 mm Thickness)				
	a. 40 cm to 60 cm	8.00	EACH		
	b. 60 cm to 80 cm	8.00	EACH		
	c. 80 cm to 1 Mtr	0.00	EACH		
19	Supply & fixing at site in position universal clamps in toilet area including threaded rod, nut, washer & anchor fastener				
	a. 25mm universal clamp	80.00	EACH		
	b. 32mm universal clamp	50.00	EACH		
	c. 50mm universal clamp	0.00	EACH		
	d. 75mm universal clamp	0.00	EACH		
	e. 110mm universal clamp	0.00	EACH		
20	Wall chasing of waste lines (Upto 50mm)	0.00	METER		
21	Concrete Support	16.00	EACH		
C	WATER SUPPLY (Including material & Labour)				
22	Supply & Fixing at site in position CPVC unthreaded pipes of approved make for water supply, complete with all necessary fittings (elbow, union, tees, reducers, couplings, nipples etc) of approved make, as per drawings to the satisfaction of the project Manager.				
	a. 20mm	100.00	METER		
	b. 25mm	50.00	METER		
	c. 32mm	0.00	METER		
	d. 40 mm	0.00	METER		
	e. 50 mm	0.00	METER		
	f. 65 mm	0.00	METER		

23	Supply & Fixing at site in position ASTM (SH-40) unthreaded pipes of approved make for water supply, complete with all necessary fittings (elbow, union, tees, reducers, couplings, nipples etc) of approved make, as per drawings to the satisfaction of the project Manager.				
	a. 20mm	0.00	METER		
	b. 25mm	50.00	METER		
	c. 32mm	0.00	METER		
	d. 40mm	0.00	METER		
	e. 50mm	0.00	METER		
	f. 65mm	0.00	METER		
	g. 80mm	0.00	METER		
	h. 100mm	0.00	METER		
	i.65 mm ASTM pipe SCH 80 (For pumping line)	0.00	METER		
24	Supply & Fixing at site in position CPVC pipes (SDR-11) of approved make for water supply pipes jointing by poly fusion welding and with brass threaded CPVC fittings (PN 20) (elbow, unions, tees, reducers, couplings, nipples etc). concealing through the walls/ floors including cutting and making good the wall to line and level wherever required as per drawings to the satisfaction of the project manager.				
	a. 20mm (OD)	0.00	METER		
25	Supply & Fixing at site in position ASTM (SH-40) unthreaded pipes of approved make for water supply, complete with all necessary fittings (elbow, union, tees, reducers, couplings, nipples etc)concealing through the walls/ floors including cutting and making good the wall to line and level wherever required as per drawings to the satisfaction of the project manager.				
	a. 20mm (OD)	0.00	METER		

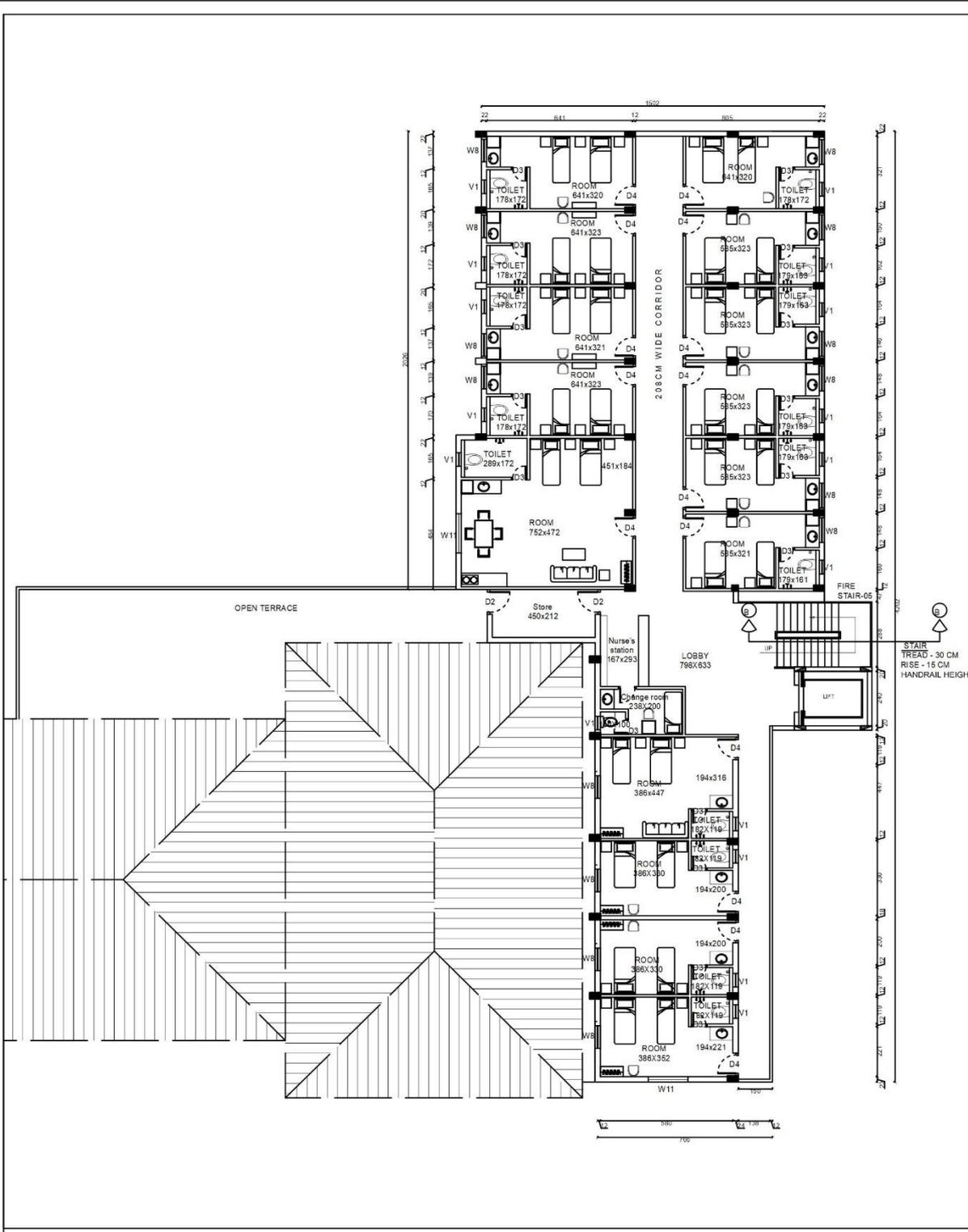
26	Supply & Fixing at site in position Bronze body lever operated Italian ball valve (PN 10) of approved make with necessary MTA fittings in position as per drawings.				
	a. 20mm dia	16.00	EACH		
	b.25mm dia	0.00	EACH		
	c.32mm dia	0.00	EACH		
	d.40mm dia	0.00	EACH		
27	Supply & Fixing at site in position Bronze body lever operated Butterfly valve of approved make with necessary MTA fittings in position as per drawings.				
	a.50mm dia	0.00	EACH		
	b.65mm dia	0.00	EACH		
	c.80mm dia	0.00	EACH		
	d.100mm dia	0.00	EACH		
	e.150mm dia	0.00	EACH		
28	Supply & Fixing at site in position micro cellular closed cell Nitrile rubber elastomeric insulation(UL-94 Approved) tubes/ sheets(6mm thick) for the hot water supply pipes with protective glass fabric & co-extruded polymeric covering for UV & mechanical protection.				
	a. 20mm	0.00	METER		
	b.25mm	0.00	METER		
	c. 32mm	0.00	METER		
	d.40 mm	0.00	METER		
	e.50 mm	0.00	METER		
	f.65 mm	0.00	METER		
29	Supply & Fixing at site in position Bronze body lever operated NRV				
	a.65mm dia	0.00	EACH		
	b.40mm dia	0.00	EACH		
	c.32mm dia	0.00	EACH		
	d.20 mm ARV	0.00	EACH		
	e 50 mm PRV	0.00	EACH		
30	Wall chasing of water supply lines (Upto 25mm)	150.00	METER		

	<b>TOTAL AMOUNT FOR PLUMBING WORKS</b>				
<b>GRAND TOTAL AMOUNT In Figures</b>			Rs		
<b>GRAND TOTAL AMOUNT IN WORDS, Rupees:</b>					
					Date:

Name of the Contractor :

Signature Of the Contractor :

Address :



**CONSULTANTS / NOTES**

1. DONOT MEASURE OUT FROM THE DRAWING.
2. ANY CHANGE ACCORDING TO THE SITE CONDITION SHOULD BE APPROVED BY THE ARCHITECT/PROJECT MANAGER INCHARGE.
3. ALL DIMENSIONS ARE IN CENTIMETER UNLESS MENTIONED

**ARCHITECTS**

**SANKALP ARCHITECTS**  
 1st Floor, 37/1008-B,  
 Parappilli House,  
 Fathima church road,  
 Elamkulam, Kochi  
 682020

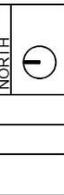
**PROJECT**  
 ADDITIONAL ROOMS at IGCH

**DRAWING TITLE**  
 Design Proposal

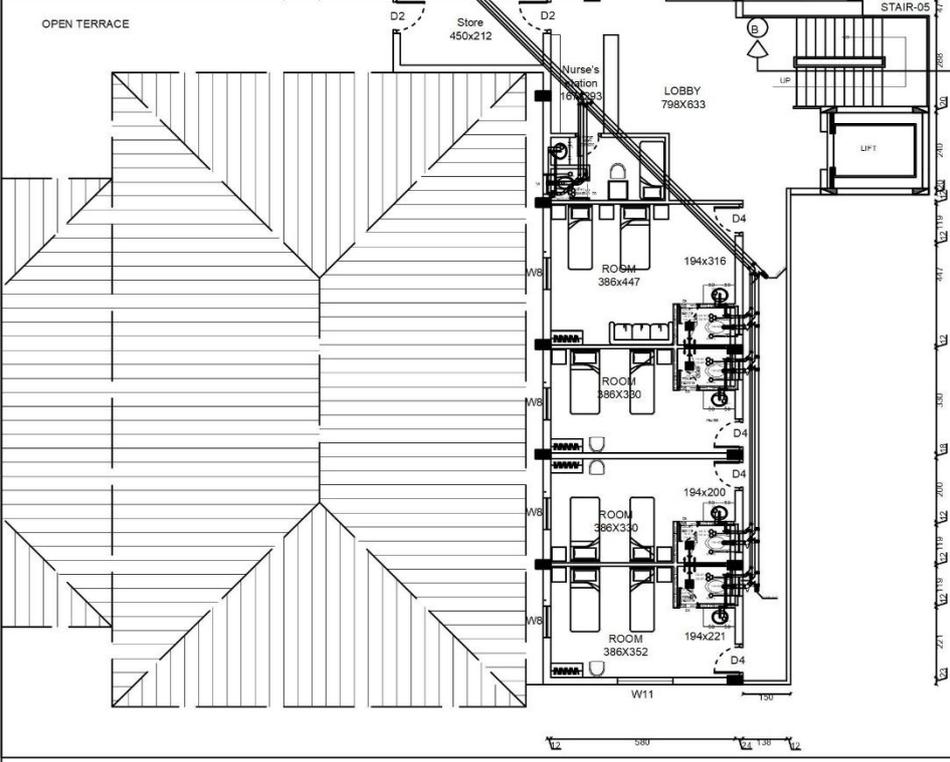
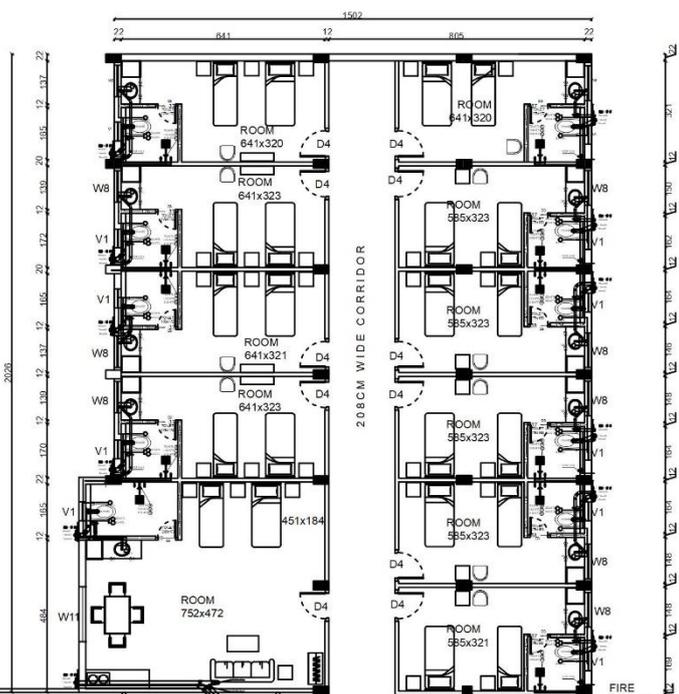
Rev No:      Date : 20.01.23      Drawing No:

**CLIENT**  
 Cochin Co Operative Hospitals  
 Society Ltd No: E 288

Drawn :  
 Checked: PP  
 Sheet No: 1 Of 1



LEGEND	
①	Wash Basin
②	Pillar Cock
③	Angle valve
④	E.W.C (Floor mounted)
⑤	E.W.C (Wall mounted)
⑥	Health faucet holder 650 AFFL
⑦	Bib cock
⑧	Spout 650 AFFL
⑨	Single lever drier/wallmount 1350 AFFL
⑩	Ram Shower 2400 AFFL
⑪	SS Gratings
⑫	Floor drain
⑬	STOP COCK 500AFFL
⑭	BIB COCK 1100AFFL
⌵	ANGLE VALVE
⌵	HEALTH FAUCET
⌵	BIB COCK
⌵	STOP COCK
⌵	WATER PURIFIER
⌵	NON DOMESTIC VERTICAL UPTAKE PIPE
⌵	HOT WATER VERTICAL UPTAKE PIPE
⌵	SINK COCK
⌵	PILLAR COCK
⌵	BALL VALVE



STAIR  
TREAD - 30 CM  
RISE - 15 CM  
HANDRAIL HEIGHT - 105CM

LEGEND	
⊙	FLOOR TRAP
⊙	VENT PIPE
⊙	100 Ø SOL PIPE 1100
⊙	SOL DOWN TAKE PIPE
⊙	DRAIN DOWNTAKE PIPE
⊙	GULLY TRAP (WASTE LINE)
⊙	GULLY TRAP (W.C./H.W.)
⊙	RAINWATER LINE PIPE
⊙	SOIL PIPE LINE
⊙	WASTE PIPE LINE
⊙	MAN HOLE 300X300
⊙	MAN HOLE (SOIL)
⊙	MAN HOLE (RAIN WATER)
⊙	SEPTIC TANK

50mm Ø W	50MM DIA PVC TOILET WASTE LINE PIPE
75mm Ø W	75MM DIA PVC TOILET WASTE LINE PIPE
32 mm Ø PVC DWS	32MM DIA PVC (UNPLASTICIZED POLYVINYL CHLORIDE) DOMESTIC WATER SUPPLY PIPE
25 mm Ø PVC DWS	25MM DIA PVC (UNPLASTICIZED POLYVINYL CHLORIDE) DOMESTIC WATER SUPPLY PIPE
20 mm Ø PVC DWS	20MM DIA PVC (UNPLASTICIZED POLYVINYL CHLORIDE) DOMESTIC WATER SUPPLY PIPE
20 mm Ø PVC DWS	20MM DIA PVC (POLYETHYLENE TEREPHTHALATE) POLYETHYLENE TEREPHTHALATE DOMESTIC WATER SUPPLY PIPE
110mm Ø W	110MM DIA PVC TOILET WASTE LINE PIPE
110mm Ø S	110MM DIA PVC Ø SOL WASTE LINE PIPE
V/A	Vertical Up take
V/D	Vertical Down take

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**ARCHITECTS**

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1st Floor, 37/1008-B,  
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Elamkulam, Kochi  
682020

**PROJECT**

ADDITIONAL ROOMS at IGCH

**DRAWING TITLE**

PLUMBING DRAWING

Rev No:      Date : 07.03.26      Drawing No:

**CLIENT**

Cochin Co Operative Hospitals  
Society Ltd No: E 288

**Drawn:** ANWIN  
**Checked:** JKG  
**Sheet No:** 1 Of 1

