

E		Plumbing					
	E.1.0		<b>INTERNAL WATER SUPPLY SYSTEM</b>				
		a	Providing & fixing on walls / ceiling / floors, medium grade having embossed ISI Mark CPVC pipes of diameter as mentioned below with fittings i.e.connector, clamps, tees, elbows, reducers, male-female etc. necessary fittings. (Supreme / Prince/Astral or as approved. )				
		a.1	15mm nominal bore	RMT	0		-
		a.2	20mm nominal bore for sink+ gyser+ RO+ Basin+papsi machine	RMT	43		-
		a.3	25mm nominal bore for main water supply	RMT	42		-
		a.4	32mm nominal bore	RMT	1		-
		a.5	40mm nominal bore	RMT	6		-
		b	Providing & fixing of ISI Mark CPVC ball valves of followig dia pipes as mentioned below (Make - supreme/prince/astral or as approved)				
		b.1	15mm nominal bore	Nos.	0		-
		b.2	20mm nominal bore for sink+ gyser+ RO+ Basin+papsi machine	Nos.	0		-
		b.3	25mm nominal bore for main water supply	Nos.	0		-
		b.4	32mm nominal bore	Nos.	0		-
		b.5	40mm nominal bore	Nos.	0		-
		c	Providing & fixing on walls / ceiling / floors,C class G I C class pipe of diameter as mentioned below with screwed sockets, joints & necessary. (Supreme / Prince/Astral or as approved. )				
		c.1	25MM nominal bore	RMT	0		-
		c.2	50 MM nominal bore	RMT	0		-
		d	Providing, Fixing, testing and commissioning of ISI marked Gun Metal Screwed pattern full way Gate valve with wheel tested to non shock cold working pressure upto 10 kg /sq cm(Stop Valve) conforming to IS 778 class 1 including jointing, supporting etc complete and as directed.(Danfoss/Javhiwa/Zoloto or equivalent)				
		d.1	20mm class 1.0	Nos	4		-
		d.2	25mm class 1.0	Nos	4		-
		c.3	32mm class 1.0	Nos	3		-
		c.4	40mm class 1.0	Nos	0		-
		c.5	50 mm class 1.0	Nos	0		-
		e	Providing & Fixing 15 mm C.P brass angle valve with C.P copper connecting pipe 375 mm long and nuts washer and C.P brass flange complete ,including cutting and making good the walls where required	Nos	0		-
		f	Providing and fixing brass ball balve with SS 304 stem and ball,teflon seat complete.				
		f.1	25 mm nominal bore	Nos	0		-
		f.2	32 mm nominal bore	Nos	0		-
		f.3	40 mm nominal bore	Nos	0		-
	E.2.0		<b>INTERNAL DRAINAGE SYSTEM</b>				
		a	Providing and fixing UPVC SOIL / VENT / WASTE SWR pipe of required diameter conforming to I.S.-13592, and I.S.-4985 to withstand continous internal hydrolic pressure of 4 kg/cm2 including necessary fixtures and fittings, such as bends, tees,Clean out plugs (for the downtakes near bends). single junctions, double junctions and joining with rubber rings and lubricants, on wall by means of clips or in ground including necessary excavation, laying refilling, trench testing etc. complete. (Prior approval of sample and brand by Ex.Engineer is necessary before use.) (Supreme / Prince/Astral or as approved. )				
		a.1	32 mm dia	m	0		-
		a.2	40 mm dia	m	14		-
		a.3	50 mm dia.	m	0		-
		a.4	65mm dia	m	0		-
		a.5	75 mm dia.	m	20		-
		a.6	110 mm dia.	m	20		-
		a.7	150 mm dia.	m	0		-
		b	Providing ,laying, testing & commissioning of approved Multi floor trap / Nahani trap with Chilly trap of required sizes, including jointing etc. complete and as directed. (GMGR/Chilly or equivalent)	Nos.	5		-
		e	SITC RO Water booster pump upto 1 HP Auto Cut Type , mounting with rubber pad & nut bolt (Make Crompton Grundfoss,Danfoss ,Kirloskar or equivalent)	Nos.	1		-
		d	SITC RO Water booster pump 0.5 HP Auto Cut Type , mounting with rubber pad & nut bolt (Make Crompton Grundfoss,Danfoss ,Kirloskar or equivalent)		0		-
		f	Providing and fixing of PVC water vertical type storage tanks of the approved quality, including making solid work complete in all respects with gate valve, float valve and necessary accessories (Sintex or equivalent make of Capacity - 200-250 ltrs)	Nos	1		-
		g	Providing and fixing of PVC water storage tanks of the approved quality, including making solid work complete in all respects with gate valve and necessary accessories(Sintex or equivalent make )	Ltr	0		-
	E.3.0		<b>EXTERNAL SEWERAGE</b>				
		a	Constructing brick masonry manhole with 1st class bricks in cement mortar 1:5(1 cement:5 fine sand) RCC top slab with 1:2:4 mix (1 cement :2coarse sand:4graded stone aggregate 20mm nominal size) foundation concrete 1:4:8 mix (1 cement:4 coarse sand :8 graded stone aggregate 40mm nominal size) inside and out side plastering 12mm thick with cement mortar 1:3(1 cement :3 coarse sand) finished with a floating coat of neat cement inside and rough plaster on outside and making channels in cement concrete 1:2:4 mix(1 cement:2 coarse sand:4 graded stone aggregate 20mm nominal size) neatly finished complete as per standard design including excavation refilling and disposal of surplus earth.Inside size 80X80 cms and 60 cms deep including C.I cover with frame (light duty) 455 x 610 mm internal dimensions total weight of cover and frame not less than 38 kg(wt. Of cover 23 kg and wt.of frame15kg).	Each	0		-

		<b>b</b>		Gt (18" x18") with 1 st Class brick in cement mortar 1:5 (1 cement : 5 cement) m.s grating with pcc & SS Cover, 18" x 18" inside size complete and inside chamber base finish in PCC and brick surface to be finished with tile	Each	1		-
	<b>E.4.0</b>			<b>Sanitarywares &amp; Fittings</b>				
		<b>a</b>		Providing & Fixing following fixtures, the rate for the following shall be inclusive of all necessary fixtures, accessories & attachments to make them operational, etc. complete to the satisfaction of the Architect  COST EXCLUDES INTERNAL CONCEALED PLUMBING WITH C.P.V.C. / P.V.C. PIPES ONLY (part of plumbing bog)				
		<b>a.1</b>	WC (Details - Refer Toilet Specs.)	Hindware - Enigma or equivalent- wall mounted closet with Quiet-Close seat and cover (Catalogue no. 92024, Colour - Star white)	No.	0		-
		<b>a.2</b>	Cocealed Cistern with flush plate	Hindware or equivalent- Conceale Cistern (Concealo) and Face Plate (Concealo - Shell) / Flushing cistern can be identify from Vendor according to WC.	No.	0		-
		<b>a.3</b>	Wash Basin (Details - Refer Toilet Specs.)	Hindware Magma -1719 Artistic Basin-510X360X120 wall hung (white) or equivalent.	No.	0		-
		<b>a.4</b>	Wash Basin	Hindware table top wash basin Fornite white 91043 or equivalent	No.	1		-
		<b>a.5</b>	Toilet accessories	Toilet paper holder with cover - Hindware - (Catalogue no. F880003) or equivalent	No.	0		-
		<b>a.6</b>	Soap Dispenser Wash Basin (Details - Refer Toilet Specs.)	Dolphy White ABS Wall Mounted 400 ml Liquid Soap Dispenser/ Dolphy – DSDR 0065 which is manual not automatic. But the alternative specs are mentioned for Automatic.- will use current only of Dolphy/censor one will be use for flagship stores only.	No.	0		-
		<b>a.7</b>	Tissue Dispenser	Dolphy Multifold Stainless Steel Towel Paper Dispenser	No.	1		-
		<b>a.8</b>	Pillar Cock for Wash Basin	Hindware - Quadra Pillar cock - (Catalogue no. F380001CP, Finish - Chrome) or equivalent	No.	1		-
		<b>a.9</b>	Bib cock	Hindware -Quadra which is actually "Quadra Bib Cock 2 in 1 with wall flange" or equivalent	No.	1		-
		<b>a.10</b>	Jet Spray (Health Faucet) (Details - Refer Toilet Specs.)	Hindware-Health Faucet F 160013 CP ABS With Rubbit Cleaning System	No.	0		-
		<b>a.11</b>	Bottle Trap	Hindware-Addons - Bottle Trap 32mm With 125mm & 175mm Long Wall Connection Pipe & Wall Flange (ECONOMY MODEL)	No.	1		-
		<b>a.12</b>	Sink Mixer For 3 way Sink	Providing and fixing C.P brass wall mounted sink mixer with swinging spout including cutting and making good the walls where required. (3 way Sink )	Each	1		-
		<b>a.13</b>	40 mm Dia Pipe	40 mm CPVC Dia Pipe for 3 way sink for all inclusive fittings	Each	1		-
		<b>a.14</b>	Kitchen Paper Holder	SS Kitchen Paper Holder 9" (Make : Hindware chrome F840008CP or equivalent)	Each	1		-
		<b>a.15</b>	Waste Coupling	Waste Coupling for 3Way sink and Makeline sink	No.	1		-
		<b>a.16</b>	Waste Flexible Pipe	PVC Waste flexible Pipe of 1.0m length and 25 mm dia (make :SBD/Shineman etc)	No.	0		-
		<b>a.17</b>	Conceal Coak	Conceal coak for makeline sink (Make- Hindware F310003ACP OR equivalent) Regular Body Suitable for 15mm Pipe Line with Spindle Extension & Plastic Protection Cap (without Exposed Parts) OR equivalent	NO.	1		-