NAME OF WORK :- RENOVATION, REPAIR FURNISHING, CIVIL, SANITARY, PLUMBING ELECTRICAL & ALLIED WORKS REQUIRED AT CANARA BANK CIRCLE OFFICE BUILDING BAYSITE 17-18, SEC-12, KARNAL - 132001

SUMMARY					
S. No.	DESCRIPTION OF ITEMS HEAD WISE	Amount			
1	CIVIL WORK				
2	PLUMBING WORK				
	TOTAL				
	GST AS APPLICABLE				
	TOTAL				

NAME OF WORK: - CONSULTANCY SERVICES FOR RENOVATION, REPAIR FURNISHING, CIVIL, SANITARY, PLUMBING ELECTRICAL & ALLIED WORKS REQUIRED AT CANARA BANK CIRCLE OFFICE BUILDING BAYSITE 17-18, SEC-12, KARNAL - 132001 BILL OF QUANTITY - CIVIL WORKS S.NO. | ITEM DESCRIPTION UNIT QTY RATE AMOUNT EARTH WORK Supplying chemical emulsion in sealed containers including delivery as specified. Chlorpyriphos/ Lindane emulsifiable concentrate of 20% litre 75.00 Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) With Chlorpyriphos/Lindane E.C. 20% with 1% 2 METRE 110.43 concentrationAlong the external wall below concrete or masonry apron using chemical emulsion @ 2.25 litres per linear metre including drilling and plugging holes etc. 2.00 CONCRETE WORK **CEMENT CONCRETE (CAST IN SITU)** Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, 3 fillets, 1:3:6 (1 cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone cum. 16.93 aggregate 20 mm nominal size derived from natural sources) 4.00 REINFORCED CEMENT CONCRETE CAST IN SITU 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, 0.47 cum. finishing and reinforcement with 1:1.5:3 (1cement : 1.5 coarse sand(zone-III) Derived from natural sources: 3 graded stone aggregate 20 mm nominal size). FORM WORK (CENTERING & SHUTTERING) Centering and shuttering including strutting, propping etc. and removal of form for: 5 Lintels, beams, plinth beams, girders, bressumers and cantilevers 8.19 Sq.m. STEEL REINFORCEMENT Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in 6 position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more. Kg 51.83 TOTAL FOR REINFORCED CEMENT CONCRETE MASONRY WORK 115mm. Thk. WALL 7 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 1:3 (1 cement :3 coarse sand) i. sq.m. 19.40 Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of 8 sq.m. 19.40 half brick masonry. TOTAL FOR MASONRY WORK CLADDING WORK

	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				
9	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				
<u> </u>	to edges to give high glass finish etc. complete at all levels. Granite stone slab colour black, cherry/ rubby red				
i.	• • •				
	Area of slab over 0.50 sqm	Sqm.	16.47		
	De l'Essay de la Company de la				
1	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including				
10	machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.	Mata	05.04		
i.	Granite work	Meter	65.84		
	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 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,				
11	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	Sq.m.	240.31		
	TOTAL FOR CLADDING WORK				
	LIDVO WINDOWS			<u> </u>	Ι
10	UPVC WINDOWS Openable Type window				
12					
	UPVC WINDOWS Casement Type window a- Providing and fixing wooden finish-light oak				
	colour Renolit FX foil based uPVC windows. Double panel openable casement window of 65 mm x 58 mm and Sash must be 80 mm x 65mm, wall thickness of profile must be min				
	1.8±0.3mm. Glass should be DG 6mm T+12mm (Arg) + 6mm T clear toughened with				
	single/double glazing bead. Design should be as per approved drawings only. TPE (Thermo				
	Plastic Elastomers) gasket must be using for all glazing. A minimum 2nos drain IN and 1				
	drain OUT slot for every 1000 mm. The drainages shall be so designed as not to puncture				
	the reinforcement chamber and prevent water running through the reinforcement chamber.				
	(MAKE:- FENESTA/ ALUPLAST/ KÖMMERLING				
a.	casement window frame size 47x50mm i/c 5% wastageType window	Sq.m.	41.22		
b.	Fix window of 45 mm x 50 mm,	Sq.m.	41.22		
	TOTAL UPVC				
	CTFFI MODI/				
	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in				
13	position and applying a priming coat of approved steel primer using structural steel etc. as				
	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	kg	150.00		
	TOTAL FOR STEEL WORK				
	FLOORING				
	VITRIFIED FLOOR TILES				
	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the				
14	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 :				
14	approved make, in all colours and snades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints				
	with white cement and matching pigments etc., complete.				
	Note:- The tiles must be cut with zero chipping diamond cutter only. Layingof tiles will be	Sqm.			
	done with the notch trowel, plier, wedge, clips of required thickness, leveling system and				
	rubber mallet for placing the tiles gently and easily.				
i.	Glazed vetrified tile matt/Antiskid finish of size.				
ii.	size of tile 600x600mm.		677.21		
CIID III	Note:- Tiles will be accepted only of "mother plants". TOTAL FOR FLOORING				
OUD TE	TOTAL FUN FLUURING				
	FINISHING				
	1				

15	CEMENT PLASTER (IN COARSE SAND)			
i.	12 mm cement plaster of mix : 1:4 (1 cement: 4 coarse sand)	Sq.m.	36.36	
-"-	1.4 (Touriont 4 obdise sund)	Oq.iii.	00.00	
16	CEMENT PLASTER (IN COARSE SAND)			
	15 mm cement plaster on rough side of single or half brick wall of mix:		00.00	
i.	1:4 (1 cement: 4 coarse sand)	Sq.m.	36.36	
	6MM CEMENT PLASTER 6			
17	mm cement plaster of mix :			
<u> </u>	· · · · · · · · · · · · · · · · · · ·			
i.	1:3 (1 cement : 3 fine sand)	Sq.m.	6.77	
18	NEAT CEMENT PUNNING	Sq.m.	3.64	
"	NEW CEMENT OWNING	Oq.iii.	0.01	
19	Extra for providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	per bag of 50kg cement mix	8.73	
20	Finishing walls with textured exterior paint of required shade :			
	New work (Two or more coats applied @ 3.28ltr/10 sqm) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm	Sq.m.	318.24	
21	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade :.			
i.	Two or more coats on new work	Sqm.	374.96	
22	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm.	562.44	
23	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even			
	shade			
	One or more coats on old work	Sqm.	456.00	
	TOTAL FOR FINISHING			
	DISMANTLING AND DEMOLISHING			
24	Demolishing cement concrete manually/ by mechanical means including disposal of material			
	within 50 metres lead as per direction of Engineer - in - charge.			
i.	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	cum.	4.06	
	Demalishing B.C.C. work manually/ by manhanical magne including steeling of steel hare			
25	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-	cum.	0.56	
	and disposal of discrivicuatio material within 50 metres lead as per direction of Engineer in			
26	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.			
i.	In cement mortar	cum.	13.29	
27	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :			
i.	Of area beyond 3 sq. metres	Each	112.00	
	De Merculato (fig. Discoulles IIII IIII IIII IIII IIII IIII IIII			
28	Providing rebate after Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:			
i.	Of area beyond 3 sq. metres	Each	112.00	
	Discouling the set of feet and the feet and			
29	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.			
i.	For thickness of tiles 10 mm to 25 mm	Sq.m.	677.21	

30	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	sqm	250.00	
31	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	Trips	20.00	
	TOTAL FOR DISMANTLING AND DEMOLISHING			
	TOTAL FOR DISMANTLING AND DEMOLISHING			
	WATER PROOFING			
	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 4 hours.			
32.0	(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.)	sqm.	76.30	
	TOTAL FOR WATER PROOFING			
	TOTAL FOR THE LET MOOF INC			
	TOTAL CIVIL WORK		_	

NAME OF WORK :- CONSULTANCY SERVICES FOR RENOVATION, REPAIR FURNISHING, CIVIL, SANITARY, PLUMBING ELECTRICAL & ALLIED WORKS REQUIRED AT CANARA BANK CIRCLE OFFICE BUILDING BAYSITE 17-18, SEC-12, KARNAL - 132001

BILL OF QUANTITY - PLUMBING WORKS ITEM DESCRIPTION SO.NO. UNIT OTY RATE **AMOUNT** Note: i. Detail of Sanitary fixture are for the information of the Contractor, however model / makes of all sanitary fixture shall be selected by Architect / Interior designer / client and the same shall be binding for execution. ii. No additional all fixing cost shall be paid for change in type of sanitary fixture or fitting. iii. Provision of extension piece for final connection of CP fitting shall be supplied and installed by the contractor accordingly (as required). iv. Main storm water drain should be cast in RCC Box with SFRC cover C/C 10m distance. Cost should be include in civil estimate only. As we have not considered in PHE estimate. SANITARY INSTALLATIONS Providing and fixing white vitreous china extended wall mounted water closet of approved shape including providing and fixing of concealed cistern with duel flush fitting (2.0/4.0 lts. per flushing), including sheet cover, and cistern fittings, nut bolt gasket,chair etc complete. (MAKE - ROCA: MODEL NO. OF WC WITH SEAT& COVER -RS34647A000-RA801732001, CISTERN & FACE PLATE-RA801732001-RE890195001) (KOHLER: MODEL NO. OF 9.00 Fach WC WITH SEAT& COVER - K-16817IN-SS-0 . CISTERN & FACE PLATE-K-26351IN-P-NA & K-5413IN-P-CP) (JAQUAR: MODEL NO. OF WC WITH SEAT& COVER - ACS-WHT-87953BIUF-SS-0 , CISTERN & FACE PLATE-JCS-WHT-2431FT & JCB-CHR-152415) Providing and fixing white vitreous china flat back half stall urinal with infrared sensor battery operated automatic flushing systems for urinal to ensure pre-flush & flushing only immediately after use, comprising of all plumbing, electronic and electrical items. (0.75 lts. per flushing) with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS: 2556, C.I. trap with outlet grating and other Each 5.00 couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required : (MAKE -ROCA: MODEL NO. OF URIN-RS35945J460 &SENSOR -RT525165003 RT5A8102E0N) KOHLER: MODEL NO. OF URINAL-K-20713IN-ER-0, &SENSOR -K-24199IN-C03-CP) or EQ MODEL OF HINDWARE Providing & fixing glass urinal partition of Height: 900mm, Width: 450mm & Frosted Safety Glass: 8 mm with fixed with expandable anchor fasteners with C.P. brass bolts and washers, embedded in wall with anchor and set in cement concrete complete including cutting and making good the walls wherever required. (MAKE-JAGUAR: MODEL NO-5.00 Each Model No. JSE-CHR-810UC450X), HINDWARE: MODEL NO.- SU810SC(S)-STD-CR), SAHI METAL & DECORATORS) Providing and fixing Stainless Steel AISI 304 (18/8) kitchen sink as per IS: 13983 with C.I. brackets and stainless steel 73 plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required Kitchen sink with drain board 510x1040 mm bowl depth 250 mm 1.00 Each b. Kitchen sink without drain board 610x510 mm bowl depth 200 mm Providing and fixing hand shower (Health faucet) with 1.2mtr long with 8mm dia Easy Flex Tube with wall hook and flow restrictor with flow rate 6 litre per minute at 3 bar in chrome finish and wall hook. (MAKE -ROCA: MODEL NO. 74 Each 9.00 HEALTH FAUCET :RF9060A1.) KOHLER: MODEL NO. HEALTH FAUCET : K-12927IN-CP, JAQUAR: MODEL NO. HEALTH FAUCET: K-12927IN-CP) Providing and fixing CP Brass 32mm size Bottle Trap Waste coupling without pop-up 32 mm full thread 130 mm of approved quality & make and as per the direction of Engineer-in-charge.(MAKE -ROCA: MODEL NO. BOTTLE TRAP 75 Each 9.00 :RF9066A1.RF5054017A1) (MAKE -KOHLER: MODEL NO. BOTTLE TRAP : K-75823IN-CP.20746IN-CP), MAKE-HINDWARE:EQ MODEL) Providing & fixing PVC waste pipe for sink including PVC waste fitting Complete a. Flexible Pipe 40mm Dia Each 1.00 b.

77	Providing & fixing toilet paper holder (MAKE -KOHLER: MODEL NO. TOILET PAPER HOLDER: K-25071IN-CP OR EQUIVALENT.) (ROCA: MODEL NO. TOILET PAPER HOLDER: RA816662001 OR EQUIVALENT.), MAKE-HINDWARE: EQ MODEL)			
	C.P. brass	Each	9.00	
78	Providing, fixing, jointing and testing in position of ISI marked UV stabilized UPVC pipes for soil, waste SWR Type-B as per IS: 13592 suitable for rubber ring joints for vertical pipes and solvent cement joints for horizontal pipes, including all neccessary specials and fittings (confirming to IS:14735) i.e. bends, tees, junctions (with or without doors), reducers, couplers, cowels, clamps, hangers, rubber rings, clean outs, provision for C P Grating fixing for any waste connection from washing machine etc. fixing at wall / ceiling / floor level supported by clamp & hangers etc. inside duct / suspended from floor under false ceiling for proper completion of the work. The rubber ring shall confirm to IS:5382. ((SOIL, WASTE, VENT & RAIN WATER)) (MAKE:- SUPREME, PRINCE, ASHIRVAD)			
a.	75 mm diameter pipe	Metre	12.00	
b.	110 mm diameter pipe	Metre	12.00	
C.	160 mm diameter pipe	Metre	12.00	
79	Providing and fixing in position Upvc full bore P / S trap with 50 mm water seal (IS : 14735) of the following sizes . Making proper connection with solvent cement.	Each	9.00	
80	Providing, fixing & testing uPVC pipes , conforming to IS 4985 class 3 (6 kg/cm²) including injection moulded fittings, jointing with solvent cement, cutting and making good the floors and walls and jointing to trap/waste pipe, complete of outer dia. (Indirect waste) (MAKE:- SUPREME, PRINCE, ASHIRVAD)			
a.	40 mm diameter pipe	Metre	12.00	
b.	63 mm diameter pipe	Metre	12.00	
81	Providing & fixing Nickel Chromium Plated liquid soap container/dispenser with metallic bottle of approved brand & make 112 mm distance from wall of standard shape with bracket (Nickel chromium plating should pass Salt Spray Test for 200 hours) of the same materials with snap fittings of approved quality and colour, complete as per direction of Engineer in Charge. (MAKE: KOHLER: MODEL NO K-10712D-CP) (ROCA MODEL:NORA816070105.), MAKE: JAQUAR MODEL NO. AKP-CHR-35735P)	Each	-	
82	Providing, Fixing of CP brass Towel Ring with CP brass wall brackets and providing & fixing CP brass screws complete as required. (MAKE: KOHLER: MODEL NO. TOWEL RING: K-25067IN-CP) (ROCA MODEL NO RA816656001), MAKE:- JAQUAR MODEL NO. CAN-CHR-1121BN)	Each	4.00	
83	Providing, Fixing of CP brass Towel Shelf 600mm long without hanger with 3 hooks and CP brass screws complete as required. (MAKE: KOHLER: MODEL NO. TOWEL SHELF: K-25066IN-CP) (ROCA: MODEL NORA816070168), MAKE:- JAQUAR MODEN NO. AHS-CHR-1581)	Each	4.00	
84	Providing & fixing soap dish holder of approved design. (MAKE: KOHLER: MODEL NO. SOAP DISH: K-25068IN-CP) (ROCA MODEL NORA816683001.), MAKE:- JAQUAR MODEL NO. AKP-CHR-35731P)	Each	-	
85	Providing and fixing white vitreous china Oval shaped wash basin for top/under counter mounting with 15 mm C.P. brass pillar tap of approved quality and make with, including painting of fittings and brackets, cutting and making good the walls whereever required. (MAKE: KOHLER: MODEL NO. WASH BASIN: K-2660IN-1-0 & PILLAR TAP: K-23475IN-4-CP) (ROCA MODEL NORS3270Y2000 & PILLAR TAP: RT5A3C09C0N), MAKE- HINDWARE-EQ MODEL OF WASH BASIN & PILLAR TAP)			
a.	White Vitreous China Oval shaped Wash basin size $584 \times 460 \times 174$ mm with 15 mm C.P. brass pillar tap auto closing type of approved make with flow rate 2.5 litre per minute at 3 bar .	Each	9.00	
86	Providing and fixing CP brass Tube spout kitchen faucet complete with flow rate 2.5 litre per minute at 3 bar including cutting and making good the walls where required. (MAKE: KOHLER: MODEL NO. KITCHEN FAUCET: K-99176IN-4-CP) (ROCA MODEL NORT5A847ACOH), MAKE:- HINDWARE (EQ. MODEL)	Each	1.00	
87	Providing, Fixing wall mounted Double Coat hook on door complete. (MAKE-KOHLER: MODEL NO. COAT HOOK: - K-25073IN-CP-CP) (ROCA MODEL NORA816651001), MAKE:- JAQUAR MODEL NO. AQN-CHR-7761)	Each	7.00	
88	Providing and fixing CP brass 1 Way Bib cock with wall flange with flow restrictor with flow rate 2.5 litre per minute at 3 bar. (MAKE-KOHLER: MODEL NO. 1 WAY BIB COCK : K-16093IN-4-CP) (ROCA MODEL NORT5A787ACA1), MAKE:-MAKE:-HINDWARE (EQ. MODEL)	Each	9.00	
89	Providing and fixing straight type Macfit single body push fit type WC pan connector with factory supplied spring loaded seal guard of McAlpine, UK with integral single mould sealing fins made of flexible EVA body, including bush/adaptor for use with C.I. Pipe as supplied with the pan connector. (MAKE:- SUPREME, PRINCE, ASHIRVAD)	Each	-	

			1		I
	Describing and fixing minute (4000-4000 mm) of apparing along (of apparently and of appring along and size				
	Providing and fixing mirror (1000x1000 mm) of superior glass (of approved quality) and of required shape and size		7.00		
90	with plastic moulded frame of approved make and shade with 6 mm thick hard board backing complete as required.	Sqm	7.00		
	(MAKE:- MODIGUARD, SAINT GOBAIN GLASS INDIA LIMITED,ASAHI GLASS)				
	Providing, fixing, testing & commissioning of Floor drain made of uPVC reducing elbow (110x63 $$ mm) with horizontal				
	drain outlet of 63 mm OD, round top of 110 mm OD. (Floor Drain) (MAKE:- SUPREME, PRINCE PIPING SYSTEM,	Each	21.00		
	ASHIRVAD)				
	Providing & fixing uPVC clean out plug with suitable opening with threaded uPVC socket fixed to uPVC pipe joints as				
92	required complete in all respects. (MAKE:- SUPREME, PRINCE PIPING SYSTEM,				
	ASHIRVAD)				
	110 mm dia	Each	12.00		
b.	160 mm dia	Each	12.00		
	Providing, fixing and testing of uPVC SWR inlet fittings with two or three saddle inlets of 40, 50 or 63 mm size,				
	fabricated from 110 mm outer dia uPVC pipes and fixed to uPVC traps with solvent cement joint complete in all	Each	12.00		
"	respect. (MAKE:- SUPREME, PRINCE, ASHIRVAD)	Luon	12.00		
	(MINULE COTTLEME, I MINOL, MOTHETPL)				
	Providing and fixing SS Grating of 125 mm dia of approved quality and colour complete as per direction of engineer in				
	charge. (MAKE:- SYSCRAFT GLOBAL ENTERPRISES, INDIA, RELIABLE METALS INDIA, ASHIRVAD)				
54	onargo. (MARL STOOMAL I GLODAL LIVILAFRISES, INDIA, RELIADLE METALS INDIA, ASTIRVAD)				
	Circular Tura				
a.	Circular Type	F	4.00		
	125 mm nominal dia with 25 mm waste hole	Each	1.00		
47.00	TOTAL OF OUR LIFAR AT CAMITARY INOTALL ATIONS				
17.00	TOTAL OF SUB HEAD 17 - SANITARY INSTALLATIONS		ı		
	WATER SUPPLY				
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply,				
95	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.				
	Internal work - Exposed on Wall				
a.	15 mm nominal outer dia Pipes (LUM SUM)	Metre	-		
b.	20 mm nominal outer dia Pipes	Metre	-		
C.	25 mm nominal outer dia Pipes	Metre	-		
d.	32 mm nominal outer dia Pipes	Metre	-		
e.	40 mm nominal outer dia Pipes	Metre	-		
f.	50 mm nominal outer dia Pipes	Metre	-		
g.	65 mm nominal inner dia Pipes	Metre	-		
_					
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water				
	supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This				
	includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making				
	good the same including testing of joints complete as per direction of Engineer in Charge.				
	Concealed work, including cutting chases and making good the walls etc.				
a.	15 mm nominal outer dia Pipes	Metre	1.00		
	20 mm nominal outer dia Pipes	Metre	100.00		
	25 mm nominal outer dia Pipes	Metre	20.00		
d.	32 mm nominal outer dia Pipes	Metre	10.00		
	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply				
	including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent				
	cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge.				
	External Work				
	25 mm nominal outer dia Pipes	Metre	1.00		
	32 mm nominal outer dia Pipes	Metre	12.00		
-	40 mm nominal outer dia Pipes	Metre	1.00		
	50 mm nominal outer dia Pipes	Metre	1.00		
	65 mm nominal inner dia Pipes	Metre	1.00		
	80 mm nominal inner dia Pipes	Metre	1.00		
	oo nommar minor ara ripoo		1.00		
98	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end):				
	20mm nominal bore	Each	10.00		
			1.00		
	25mm nominal bore	Each Each		-	
	32mm nominal bore 40mm nominal bore		10.00 5.00		
d.	AUTHUR DOWNERS DOFO	Each	5 (11)		

<u> </u>			4.00	
e.	50mm nominal bore	Each	1.00	
f.	65mm nominal bore	Each	1.00	
99	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete :			
a.	20 mm nominal bore	Each	1.00	
b.	25mm nominal bore	Each	2.00	
100	Providing and fixing uplasticised PVC connection pipe with brass unions :			
a.	45 cm length			
b.	15 mm nominal bore	Each	1.00	
D.	13 min nominal bore	Lacii	1.00	
			4.00	
a.	With common burnt clay F.P.S (non modular) bricks of class designation 7.5	Each	1.00	
101	Providing and fixing C.P. brass angle valve for basin mixture and geyser points of approved quality confirming to IS: 8931. (MAKE: KOHLER, MODEL NO. ANGLE VALVE: K-80158IN-9-CP) (ROCA MODEL NORF525159700), MAKE: JAQUAR- MODEL NO. ALI-CHR-85041)	Each	12.00	
102	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end). (MAKE: - ZOLOTO, SKS			
102	VALVES, KARTAR)			
	15mm nominal bore	Each	5.00	
103	Butterfly valve (manual) with C.I body SS disc nitrile sheet & 0 ring & PN 16 Pressure rating as specified 100 mm nominal bore			
	50 mm dia.	Each	5.00	
	65 mm dia.	Each	4.00	
a.	80 mm dia.	Each	2.00	
b.	100 mm dia.	Each	1.00	
D.	100 mm dia.	Lacii	1.00	
	Many and the state of CLD and CO. Later when it all NDD and flowed and C. DN 40 and it and it all the state of CLD and CO.			
104	Non - return valve with dual plate of CI Body SS plates vulcanized NBR seal flanged end & PN 16 rating as specified.			
a.	65mm dia.	Each	1.00	
b.	80 mm dia.	Each	1.00	
C.	100 mm dia.	Each	1.00	
105	Providing & fixing CI 'Y' Strainer (screwed/ flanged) with stainless steel fine wire mesh perforated sheet basket with necessary flange/ unions nuts, bolts and washers complete as required. (MAKE: - ZOLOTO, SKS VALVES, SANT)			
a.	32mm nominal bore	Each	-	
b.	40mm nominal bore	Each	-	
C.	50mm nominal bore	Each	-	
d.	65mm nominal bore	Each	_	
e.	80mm nominal bore	Each	-	
f.	100mm nominal bore	Each	_	
-	Todam Todama Boto	Lucii		
g.				
106	Supplying and fixing in position of approved quality Solenoid Valve with by-pass arrangement, isolation cock etc. complete with all required accessories such as level sensor, level indicator, level controller and required cabling for the same. (MAKE: - ZOLOTO, SKS VALVES)			
a.	25 mm dia	Each	_	
b.	32 mm dia	Each	_	
C.	40 mm dia	Each		
	50 mm dia	Each	_	
d.				
е.	65 mm dia	Each	-	
f.	80 mm dia	Each	-	
g.	100 mm dia	Each	-	
h.				
107	Providing, Fixing, Testing & Commissioning of nitrle rubber insulation on hot water supply pipes. K-Flex, A-Flex, Armacell. The rate include cost of all material & labour involved in the item complete and all as per direction of engineer incharge. (MAKE: - THERMAFLEX INSULATION ASIA CO. LTD., KFLEX)			
		N A - 4	40.00	
<u>a.</u>	15mm (9 mm thickness)	Metre	10.00	
b.	20mm (9 mm thickness)	Metre	-	
C.	25mm dia (9 mm thickness)	Metre	-	
d.	32mm dia (13 mm thickness)	Metre	-	
e.	40mm dia (13 mm thickness)	Metre	-	
	,			
f.	50mm dia (13 mm thickness)	Metre	-	
	50mm dia (13 mm thickness) 65mm dia (19 mm thickness)		-	
g.	65mm dia (19 mm thickness)	Metre		
-			-	

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	D. II. J. C. D. (O. D. Dishau Las and de la character (DDA)				
	Providing and fixing Bronze compact(Screwed) Diaphram type pressure reducing valve (PRV) with strainer				
	deliverying desired rate of flow. The complete system is tested to a pressure not less than 16 Kg / Sq.cm and suitable				
108	to reduce the pressure upto 1 Kg/Sq.cm) including flanges / unions, nuts, bolts and washers complete as required.				
	MAKE :- HONEY WELL, KARTAR, AGRICULTURE & INDUSTRIAL PUMPS				
a.	15 mm dia	Each	-		
b.	20 mm dia	Each	-		
C.	25 mm dia	Each	-		
d.	32 mm dia	Each	-		
e.	40 mm dia	Each	-		
f.	50 mm dia	Each	-		
18.00	TOTAL OF SUB HEAD 18 -WATER SUPPLY		•		
	DRAINAGE				
	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal				
109	size) all-round S.W. pipes including bed concrete as per standard design:				
	150 mm diameter S.W. pipe	Metre	_		
a.	! !				
b.	200 mm diameter S.W. pipe	Metre	-		
C.	250 mm diameter S.W. pipe	Metre	-		
	D 18 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
110	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal				
	size) up to haunches of S.W. pipes including bed concrete as per standard design :				
	150 mm diameter S.W. pipe / RCC pipe	Metre	-		
	200 mm diameter S.W. pipe / RCC pipe	Metre	-		
	250 mm diameter S.W. pipe / RCC pipe	Metre	-		
	300 mm diameter S.W. pipe / RCC pipe	Metre	-		
	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with				
111	water tight C.I. cover with frame of 300 x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame				
	to be not less than 2.70 kg as per standard design :				
_	180 x 150mm size P-type				
a. b.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Foob			
D.	With Common Duffit Glay F.F.S. (110th fillodular) Dricks of Glass designation 7.5	Each	-		
	Descriptions and loving any processes NDO alone (light duty) D.C.C. pings with college injected with stiff mixture of compart				
	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement				
112	mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete : (For Sewer & Storm				
	Line)				
a.	150 mm dia. R.C.C. pipe	Metre	-		
b.	250 mm dia. R.C.C. pipe	Metre	-		
C.	300 mm dia. R.C.C. pipe	Metre	-		
d.	450 mm dia. R.C.C. pipe	Metre	-		
e.	500 mm dia. R.C.C. pipe	Metre	-		
f.	600 mm dia. R.C.C. pipe	Metre	_		
g.	700 mm dia. R.C.C. pipe	Metre	_		
y. h.	800 mm dia. R.C.C. pipe	Metre	_		
i.	900 mm dia. R.C.C. pipe	Metre	_		
i.	1000 mm dia. R.C.C. pipe	Metre	_		
		Metre			
k.	1100 mm dia. R.C.C. pipe		-		
l.	1200 mm dia. R.C.C. pipe	Metre	-		
	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with				
	1:1.5:3 mix (1 cement : 1.5 coarse sand (zone- III) : 3 graded stone aggregate 20 mm nominal size), foundation				
113	concrete 1:4:8 mix (1 cement : 4 coarse sand (zone- III) : 8 graded stone aggregate 40 mm nominal size), inside				
''3	plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement				
	and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal				
	size) finished with a floating coat of neat cement complete as per standard design :				
	Inside size 90 x 80 cm and 45 cm deep including Cl cover with frame (light duty) 455 x 610mm internal dimensiions		İ		
a.	total weight of cover and frame to be not less than 38 Kg. (weight of cover 23 Kg. and weight of frame 15 Kg.), with				
	FPS bricks with class designation 7.5				
b.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	_		
υ.	which common painted by 1.1.5. (non-modular) bricks of class acsignation 7.5	Lacii	-		
	logide size 120,000 am and 00 am doon including C.L. source with from a foodium duty) 500 mm internal discrete total				
114	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total				
	weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg):	-			
a.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	-		
115	Extra for depth for manholes:				
a.	Size 90 x 80 cm				

b.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	-		
116	Size 120x90 cm				
a.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre	-		
	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar				
	1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand)				
447	finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone				
117	aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4				
	graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard				
	design:				
	0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter				
	conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1				
118	cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete.				
	(Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately):				
a.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	_		
a.	The common paint day 1.1.0. (non incudial) bricks of dass designation 7.3	Latii	_		
119	Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m				
	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Metre			
a.	yvitii common punit day r.r.s. (non modular) bricks of dass designation 7.5	ivietre	_		
-					
	Providing orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910 on 12mm dia				
	steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263				
	mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by				
120	ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard	Each	_		
	drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having				
	manufacture's permanent identification mark to be visible even after fixing, including fixing in manholes with 30x20x15				
	cm cement concrete block 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) complete				
	as per design.				
	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls,				
121	floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)				
'-	cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat				
	cement and making necessary channels for the drain etc. complete :				
a.	For pipes 100 to 250 mm diameter	Each	-		
122	Constructing brick masonry road gully chamber 50x45x60cm with bricks in cement mortar 1:4 (1 cement : 4 coarse				
122	sand) including 500x450mm precast RCC horizontal grating with frame complete as per standard design.				
b.	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Each	-		
123	Providing and fixing F.R.P. Grating drain cover M.S. Angle (35 x35 x 5 mm). (Load Bearing cap. 5 T, suitable for car				
123	parking, basement, Pump room, Parking Area). MAKE:- CRESCENT, GLOBAL WORLD				
	377mm wide and 30mm thick	Metre	-		
19.00	TOTAL OF SUB HEAD 19 -DRAINAGE				
В.	TOTAL PLUMBING WORK				
				•	

List of approved make for Plumbing Works (Sanitary & Water Supply)

1. Vitreous China Sanitary 2. Plastic seat cover of W.C 3. Hand Drier 4. PVC flushing cistern 5. White Glazed Fire Clay Sink 6. C.P. Fixture and fittings 7. Liquid Soap Dispenser 8. Stainless Steel Sink 9. Gunmetal Valves 10. Brass stop & Bib Cock 11. Copper Fittings (Capillary) 12. Floor & Cockroach Trap & Cover 13. Air Release Valve 14. Anhor Fastner 15. Ball Cock 16. Ball valves with floats 17. Liquid Soap Dispenser 8. Stainless Steel Sink 9. Gunmetal Valves 10. Brass stop & Bib Cock 11. Copper Fittings (Capillary) 12. Floor & Cockroach Trap & Cover 13. Air Release Valve 14. Anhor Fastner 15. Ball Cock 16. Ball valves with floats 17. Butterfly valves 18. C. I Fitting 19. C. I Sluice Valve & Non Return Valve 20. C.I Valves (Full way, Check and Globe Valves 21. C.I. Manhole Covers 22. Central Control 23. Centrifugally casted C.I. Pipes 26. Chlorine Dosing System 27. CPVC Pipes & Fittings 28. Curtain Rod/Drapery Rod 29. Dash Fasteners 30. Disc Filter 31. Drainage Pumps 32. Ductile Iron Fittings (Is:9523) 33. Ductile Iron Fittings & Flanges (For Welded) 34. Forged Steel Fittings		
2. Plastic seat cover of W.C Kohler / Roca/ Hindware 3. Hand Drier Kohler / Roca/ Hindware 4. PVC flushing cistern Kohler / Roca/ Hindware 5. White Glazed Fire Clay Sink Sanfire/ Cera / Neycer / Hindware 6. C.P. Fixture and fittings Kohler / Roca/ Jaguar 7. Liquid Soap Dispenser Kohler / Roca/ Jaguar 8. Stainless Steel Sink Kohler / Grohe/ TOTO 9. Gunmetal Valves Zoloto / Leader / Kartar/ NVR 10. Brass stop & Bib Cock Kohler / Roca/ Hindware 11. Copper Fittings (Capillary) Conex - Benninger / Mexflow / Rajco Meta Mumbai 12. Floor & Cockroach Trap & Cover Chilly/ GMGR/ Carmry 13. Air Release Valve Zoloto/AlP/NVR/Audco 14. Anchor Fastner Hilti / Fischer / Bosch 15. Ball Cock Sant / L&T/Audco 16. Ball valves with floats Zoloto / Leader / Sant / Audco 17. Butterfly valves Zolato/Audco / NVR / Sant 18. C. I Fitting Neco/ Electrosteel/ Kesoram/ SKF/ BIC 19. C. I Sluice Valve & Non Return Valve Kirloskar / IVC/ Leader / Zoloto /NVR 20. C. I Valves (Full way, Check and Globe Valves Kirloskar / IVC/ Leader / Zoloto /NVR		
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Sanfire/ Cera / Neycer / Hindware		
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12. Floor & Cockroach Trap & Cover Chilly/ GMGR/ Camry 13. Air Release Valve Zoloto/AIP/NVR/Audco 14. Anchor Fastner Hilti / Fischer / Bosch 15. Ball Cock Sant / L&T/Audco 16. Ball valves with floats Zoloto / Leader / Sant / Audco 17. Butterfly valves Zolato/Audco / NVR /Sant 18. C. I Fitting Neco/ Electrosteel/ Kesoram/ SKF/ BIC 19. C.I Sluice Valve & Non Return Valve Kirloskar / IVC/ Leader / Zoloto /NVR 20. C.I Valves (Full way, Check and Globe Valves Kirloskar / IVC/ Leader / Zoloto /NVR 21. C.I. Manhole Covers Neco / B.I.C. / Hepco / SKF 22. Central Control Rain Bird, USA/Toro/Nelson, 23. Centrifugally cast C.I Rainwater fitting / Bronze gratings etc. Electro Steel / Kesoram / Neco / BIC / Neer 24. Centrifugally casted C.I. Pipes Neco / Hepco / BIC / SKF 26. Chlorine Dosing System Toshcon / Chloromax 27. CPVC Pipes & Fittings Astral/ Birla Aerocon/ Ashirwad 28. Curtain Rod/Drapery Rod Vista work / Mac Décor / Hunter Douglas 29. Dash Fasteners <td< td=""><td>Metal W</td><td>'orks</td></td<>	Metal W	'orks
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33. Ductile Iron Pipes (IS:8329) Electrosteel/ Kesoram/Tisco/Jindal		
34. Forged Steel Fittings & Flanges (For Welded Sant/Vijay Cycle & Steel/SS		
joints)		
35. G.I. Fittings R/Unik/Zoloto/Sun/Swastik		
36. G.I. Pipes Jindal (Hissar)/ Tata / Prakash Surya / SAIL		
37. Geyser Jaquar / Havells		
38. Glass: Mirror Modiguard / Saint gobain/ Asahi India Safety / M	/ / Modi F	Float
39. Horizontal Centrifugal / Monoblock Pumps Wilo/Groundfos/Xylem/Salmson / Ebara	, mouri	·out

40.	Inbuilt Drip Line	Azud/ Rainbrid-USA/ Netafim
41.	Insulation of Hot water pipes	Vidoflex insulation / Superion insulation Kaiflex –
71.	institution of flot water pipes	Thermaflex/ Armacell
42.	Liquid Level Controllers / Indicators	Advance Auto / Minilec / Radar / Femac / Switzer
43.	M.S. Pipe	Jindal(Hissar) / Prakash – Surya / TATA
44.	Mainline Isolation Valve	Sant /Leader /Zoloto,
45.	Non Return Valve	Sant / Leader / Zoloto / NVR
46.	R.C.C Pipes	Indian Hume Pipe / Pragati Concrete Udyog /ISI Marked
10.	1	Pipes/ KK / JSP
47.	Paint- Cement Paint	All types of paints i.e., cement-based paints, Oil bound
48.	Paint - Dry Distemper	distemper, acrylic paints, plastic emulsion paints etc shall
49.	Paints - Cement Based	be First quality of Asian, Dulux, Nerolac make.
50.	Paints - External Emulsion Paint	
51.	Paints - Other Paints / Primer	All types of paints i.e., cement-based paints, Oil bound
52.	Paints - Plastic Emulsion Paint	distemper, acrylic paints, plastic emulsion paints etc shall
53.	Paints - Resin Based Paints	be First quality of Asian, Dulux, Nerolac make.
54.	Paints - Synthetic Enamel Paints	
55.	Pipe coat material (pipe protection)	RPG Raychem/Pypkote/Makphalt
56.	Pop up Connecting Assembly	Rain Bird/Dura/Lasco,
57.	Popup Spray Head	Rain Bird/Toro, USA/Nelson,
58.	Powder Coating Material pure Polyester	Jotun / Berger / Goodlass Nerolac
59.	Pressure Relief Valve	Honeywell/Leader/ Zolato / Audco/API
60.	Pumps	Xylem / Wilo/ Grund foss
61.	PVC Pipes & fitting SWR Soil, Waste & Vent Pipes	Astral/ Birla Aerocon/ Ashirwad
	and fittings, Type B PVC Casing & Screen Pipes	
62.	PVC Water Stops	Astral/ Birla Aerocon/ Ashirwad
63.	Polyethylene Storage Tank	Sintex / Astral/ Prince
64.	R.O. System	Kent/ HUL/ Augagard
65.	Reinforcement Steel	SAIL/RINL/Tata/
66.	RQRC Hydrant	Harvel/Alprene/Rain Bird, USA
67.	RQRC Key	Harvel/ Aqua/ Drip& Drip
68.	Sensor Operated Auto Flushing System Urinals	Kohler / Roca/ Jaguar
69.	SFRC / RCC Manhole Covers/ Perfect RCC	KK Manholes /SK Precast Concrete/ Advent concrete
	Grating	vision
70.	Sluice valve / NRV	Kirloskar/IVC/Zoloto/NVR/ Leader
71.	Solenoid valve	Rain Bird, USA/Toro/Nelson
72.	SS Gratings, Soap Dish Towel Rail etc.	Kohler / Roca/ Jaguar
73.	Stainless Steel	Salem Steel or as approved E-in-Charge
74.	Stainless Steel bolts, Washers and Nuts	Kundan / Puja / Atul
75.	Stainless Steel Clamps	Hilti /Intellotech Koncept
76.	Stainless steel CP Grating	Chilly / Camry
77.	Stainless Steel Pressure Plate Screws	Kundan/ Puja/ Atul
78.	Stainless Steel Screw for Fabrication and fixing of	Kundan / Puja / Atul
	Windows	
79.	Stone ware pipes & Gully Traps	Perfect / R.K/ Hind / Anand

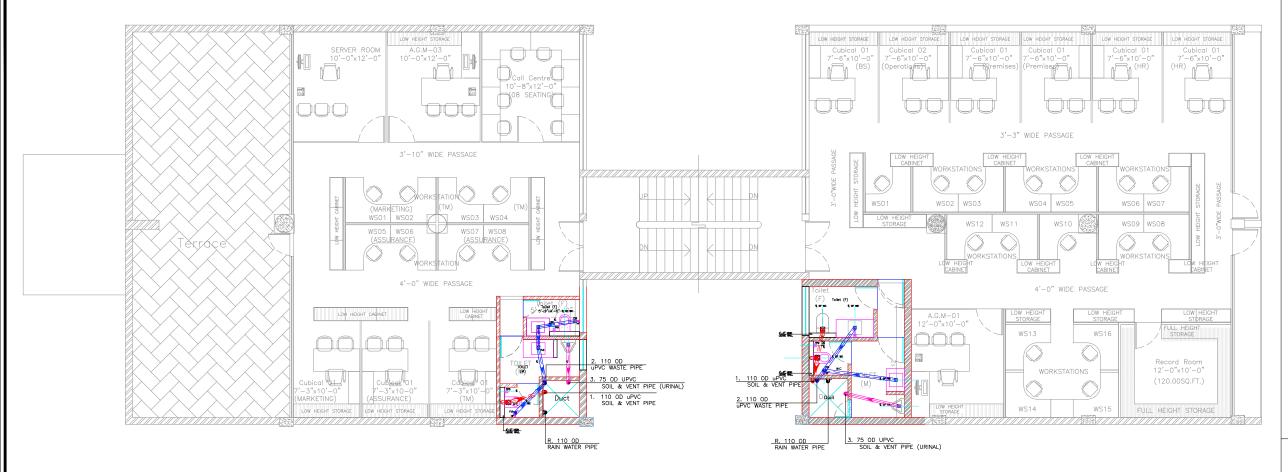
80.	Submersible Drainage pump	KSB /Grundfos/ Mather & Platt / Wilo/Xylem
81.	UPVC Pipes & fittings with Flow Guard certified	Astral/ Birla Aerocon/ Ashirwad
82.	Valve Box	Rain Bird, USA/Carson Brook, USA/Dura,
83.	VFD Pump	Kirloskar/ KSB/ Grundfos/ Mather & Platt / Ebara.
84.	Vibration Eliminator Resisto-flex Pads &	Relay Corpn./ Kanwal
	Connections	
85.	Water Cooler	Blue Star/Voltas/Usha/Godrej
86.	Water Meter	Capstan / Kranti/ Anand/ Kant
87.	Water Proofing Materials	Dr. Fixit/ Sika / Fosroc
88.	Water supply pumps	KSB/ Grunfos/Mather & Platt/ Ebara.

List of approved make for Electrical Works

S.	Details of Equipment / Material	Make / Manufacturer	
No.			
	PVC Conduit	Precision/AKG/ VIP	
1	Ceiling Junction Boxes	Home lite/ANCHOR	
2	Wires & cables	KEI/Havells/ Polycab	
3	Modular Switches, Sockets etc	Legrand/Havells/L.& T.	
4	Lighting Fixtures	Philips/Wipro/HAVELLS	
5	M.C.B./RCCB/RCBO etc	Legrand/Havells/L&T	
6	Distribution Boards	Schneider/Legrand/HAGER	
7	MCCB	Schneider/Legrand/Havells	
8	Change Over Switches	A.B.B./Standard/ L.& T	
9	End Termination accessories	Dowells/Usha/Brecco/Cosmos	
10	Telephone Cables & accessories	Havells, Krone, Finolex,	
11	Fans/Exhaust fans	Crompton/Havells/USHA	
12	Music Speakers	Philips/Bosch/Ahuja	
13	Amplifiers	Philips/Bosch/Ahuja	
14	DVR	Samsung, Honeywell, HIKVISION	
15	Rg11, CAT5/CAT6 cables/Telephone wires	Legrand, Molex, D-Link, AMP	
16	CCTV, Dome Camera	Honeywell, Hikvision	
17	Hard Disk drive	Seagate, HIKVISION	
18	Smoke/Heat/Optical Fire Detectors	Edward, Siemens, Apollo or other I.S.I. Equivalent.	
19	Response Indicators, Hooters	Edward, Siemens or other ISI Approved.	
20	Telephone Tag Block	Krone	
21	LT Panel	CPRI approved	

List of approved make for Civil Works

S. No.	Details of Equipment / Material	Make / Manufacturer	
1	Cement	JK / Ultratech/ ACC	
2	Sand/ Coarse Aggregate/Fine aggregate	Best locally available river sand	
3	Structural Steel	TATA/ SAIL/ Jindal Steel	
4	Wood	Teak Second class	
5	Bricks	Best locally available table moulded bricks	
6	Rebar Chemical- EPOXY	Hilti-RE 500 V4/ Wuerth-PE 500/ Fischer-EM plus 585	
7	Epoxy Bonding Adhesive	CICO- Bond EPO/ Fosroc- Nitobond EP/ SIKA- Hibond	
8	M16 bolt / Carbon Steel fastener- with RE 500 V3 chemical	Hilti-M16/ Fischer-RG M 16/ Wuerth M16	
9	Micro Concrete	Fosroc- Rendroc RG / CICO- Microcrete / SIKA- Rep Micrpcrete-4	
10	Waterproofing Compound	Fosroc/ Sikka/ CICO	
11	Exterior Paint	Asian Paints- apex ultima/ Nerolac-Mica Marble/ Dulux- Weather Shield Max	
12	Cement paint	Acro paints/ Super SNOWCEM	
13	Interior Paint	Asian Paints- Health Sheild / Nerolac-Ultra Frash/ Dulux- Super Clean	
14	Enamel Paints	Asian paints/ Nerolac/ Dulux	
15	G.I. Pipes	Tata / Zenith / Jindal	
16	uPVC/ CPVC/ PVC drain Pipes / fittings	Ashirwad/ Birla Aircon/ Astral	
17	Aluminium Sections	Jindal/ Hindalco/ NALCO	
18	Wall Putty	Narolac/ JK/ Asian Paint	
19	Design Mix Concrete	JK / Ultratech/ ACC	
20	uPVC Windows	FENESTA/ ALUPLAST/ KÖMMERLING	



LEGEN	<u> </u>	
1.	110 OD uPVC SOIL PIPE	1)
2.	110 OD uPVC WASTE PIPE	2
R.	1100D RAIN WATER SUPPLY PIPE	R
3.	32¢ CPVC DOMESTIC WATER PIPE	5
4.	320 CPVC DOMESTIC WATER RISER PIPE TO OVER HEAD TANK	6
5.	FLOW DIRECTION	>
6.	BALL VALVE	\bowtie
7.	FLOOR S,TRAP	FT 🐵
8.	FLOOR DRAIN	FD 🐵
9.	FLOOR CLEAN OUT PLUG	FCO 💿
10.	URINAL TARP	UT 💿
DETAIL OF PIPE CONNECTIONS		
FROM WC TO STACK110 OD uPVC SOIL PIPE		
FROM FT TO STACK110 OD uPVC WASTE PIPE		
FROM FD TO FT63 OD PVC WASTE PIPE		
FROM WB WASTE TO FT40 OD PVC WASTE PIPE		

1.	SEWERAGE PIPE LINE	
2.	STORM WATER PIPE LINE	
3.	WASTE WATER PIPE LINE	
4.	WATER TANK PIPE LINE	
5.	SUBMERSIBLE PIPE LINE	

2nd Floor plumbing layout plan

for tender drawing

PROJECT:

INTERIOR FURNISHING WORKS OF CANARA BANK CIRCLE OFFICE, KARNAL (H.R)

CLIENT NAME & ADDRESS:



Circle office, Baysite 17-18, sec-12, karnal- 132001,

Mob:- 90100-75111

e,ail:- pecokar@canarabank.com

CONSULTANTS NAME & ADDRESS :



Sh-24, First Floor, S2S Square, Garh Road, Meerut- 250002 Ph:9899328602, 9997591118, vva.global@gmail.com

ARCHITECT:

Ar. Rahul Chaudhary

DRAWING TITLE:

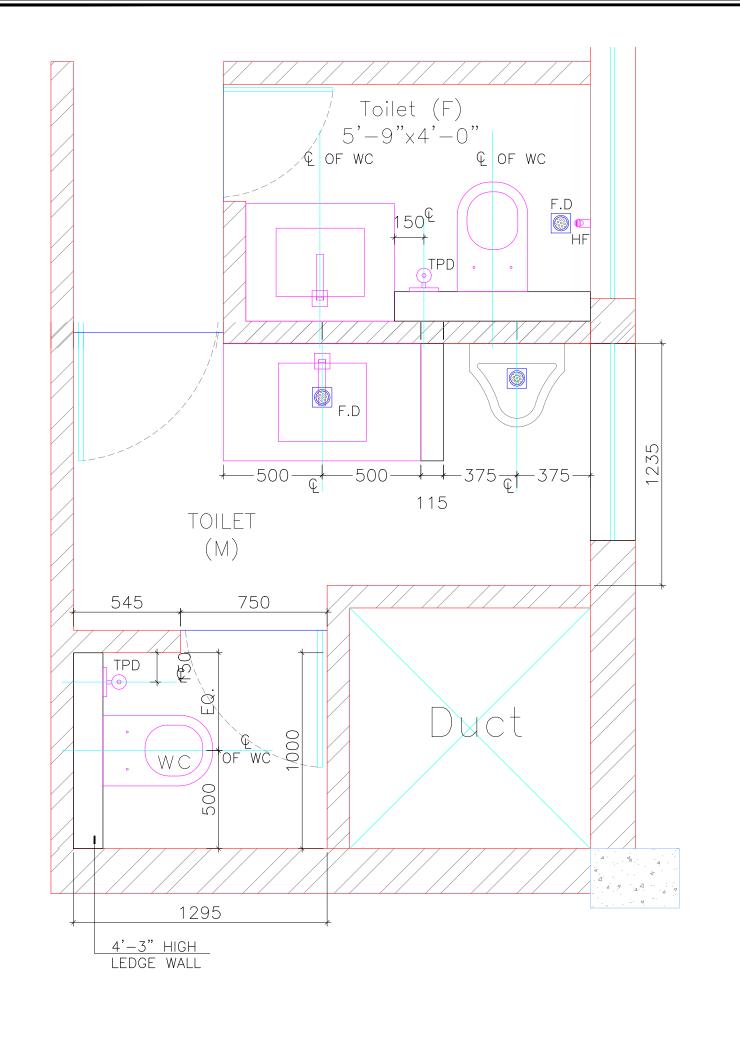
PROPOSED 2ND FLOOR PLUMBING 1
LAYOUT PLAN

AYOUT PLAN	
DEALT:	CHECKED :
Ar. Rahul Chaudhary	Ar. Manoj Kumar
	DATE:
1:75	18Nov'2023

DRAWING NO.: VVA/BANK/CNR/CO/PL/6.1

OPTION/ REVISION R-0

Interna





PROJECT:

INTERIOR FURNISHING WORKS OF CANARA BANK CIRCLE OFFICE, KARNAL (H.R)

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ARCHITECT:

Ar. Rahul Chaudhary

DRAWING TITLE:

2nd floor plumbing - left side toilet part layout plan

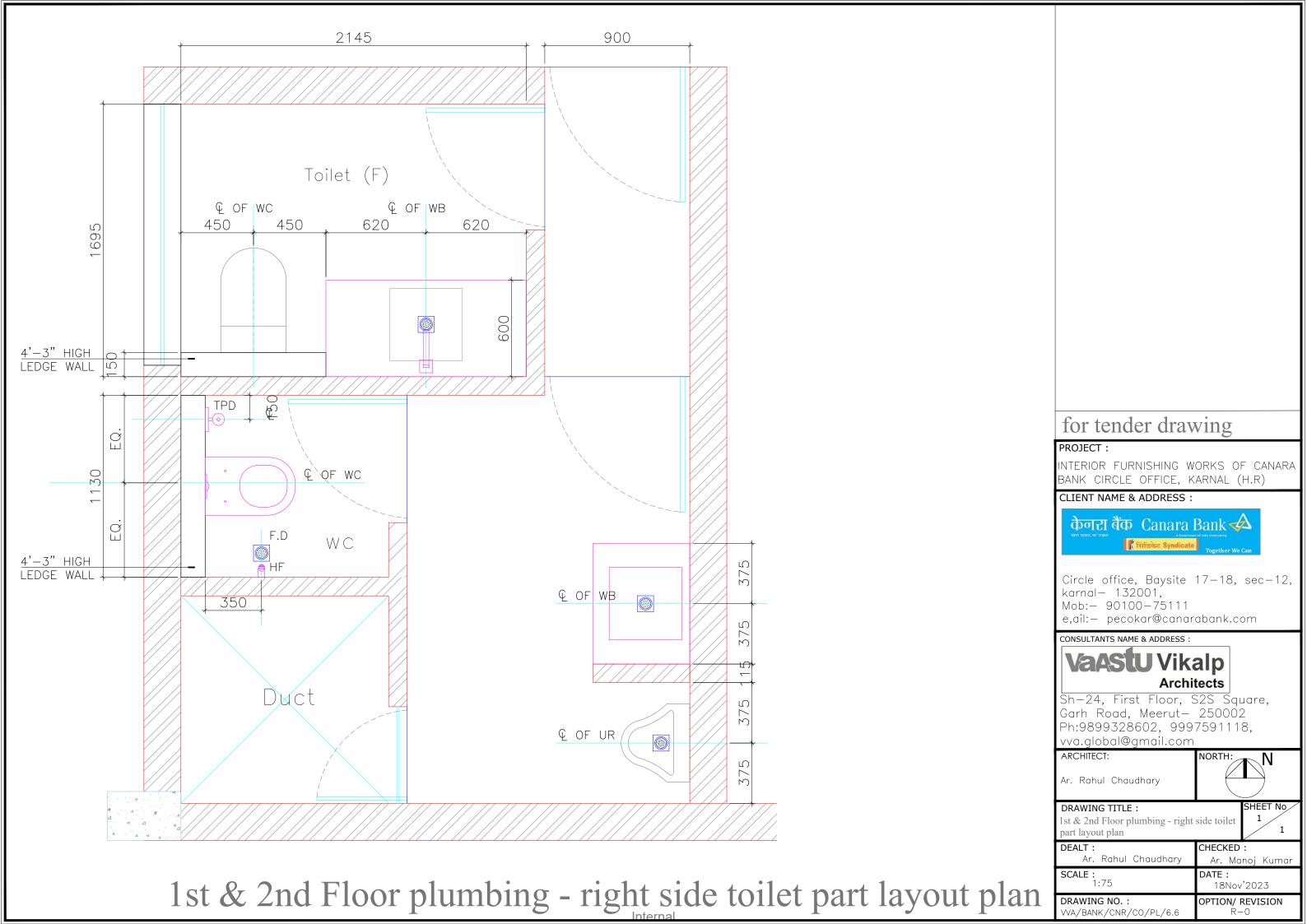
DEALT: CHECKED: Ar. Rahul Chaudhary Ar. Manoj Kumar **SCALE**: 1:75 DATE:

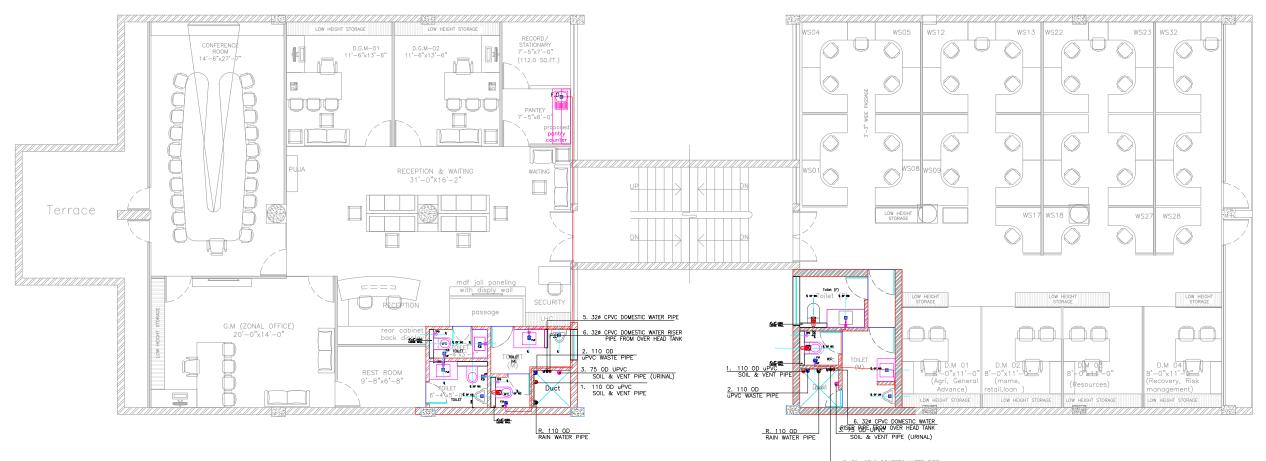
SHEET No/

DRAWING NO.:

OPTION/ REVISION VVA/BANK/CNR/CO/PL/6.5

2nd floor plumbing - left side toilet part layout plan





LEGEVID		
LEGEN	<u> </u>	
1.	110 OD uPVC SOIL PIPE	1
2.	110 OD uPVC WASTE PIPE	2
R.	1100D RAIN WATER SUPPLY PIPE	R
3.	32¢ CPVC DOMESTIC WATER PIPE	5
4.	320 CPVC DOMESTIC WATER RISER PIPE TO OVER HEAD TANK	6
5.	FLOW DIRECTION	>
6.	BALL VALVE	$\triangleright \triangleleft$
7.	FLOOR S,TRAP	FT 💮
8.	FLOOR DRAIN	FD 🐵
9.	FLOOR CLEAN OUT PLUG	FCO 💿
10.	URINAL TARP	UT 😳
DETA	IL OF PIPE CONNECTIONS	
FROM	WC TO STACK110 OD uPVC SOIL	PIPE
FROM	FT TO STACK110 OD uPVC WASTE	PIPE
FROM	FD TO FT63 OD PVC WASTE	PIPE
FROM	WB WASTE TO FT40 OD PVC WASTE	PIPE

		5. 32¢ CF
1.	SEWERAGE PIPE LINE	
2.	STORM WATER PIPE LINE	
3.	WASTE WATER PIPE LINE	
4.	WATER TANK PIPE LINE	
5.	SUBMERSIBLE PIPE LINE	

1st Floor water supply layout plan

for tender drawing

PROJECT:

INTERIOR FURNISHING WORKS OF CANARA BANK CIRCLE OFFICE, KARNAL (H.R)

CLIENT NAME & ADDRESS:



Circle office, Baysite 17-18, sec-12,

karnal- 132001, Mob:- 90100-75111

e,ail:- pecokar@canarabank.com

CONSULTANTS NAME & ADDRESS :



Sh-24, First Floor, S2S Square, Garh Road, Meerut- 250002 Ph:9899328602, 9997591118, vva.global@gmail.com

ARCHITECT:

Ar. Rahul Chaudhary

DRAWING TITLE:

1st Floor water supply layout plan

DEALT: CHECKED: Ar. Rahul Chaudhary Ar. Manoj Kumar **SCALE :** 1:75 DATE:

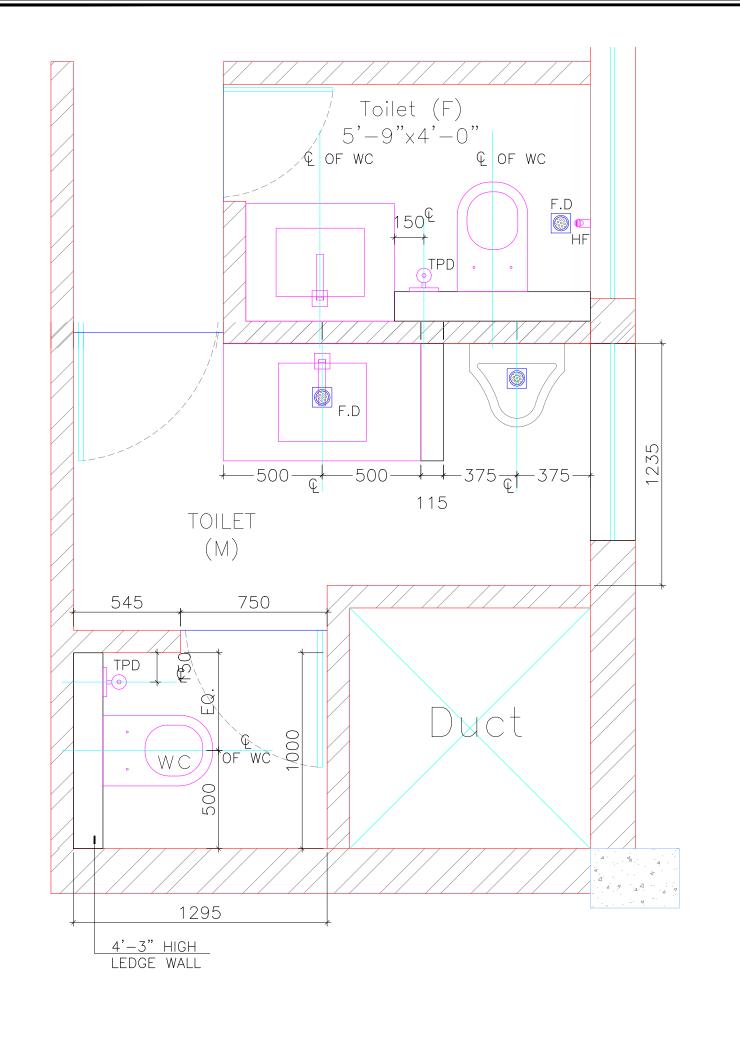
SHEET No/

1

DRAWING NO. :

WA/BANK/CNR/CO/PL/6.4

OPTION/ REVISION





PROJECT:

INTERIOR FURNISHING WORKS OF CANARA BANK CIRCLE OFFICE, KARNAL (H.R)

CLIENT NAME & ADDRESS:



Circle office, Baysite 17-18, sec-12,

karnal- 132001, Mob:- 90100-75111

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CONSULTANTS NAME & ADDRESS :



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ARCHITECT:

Ar. Rahul Chaudhary

DRAWING TITLE:

2nd floor plumbing - left side toilet part layout plan

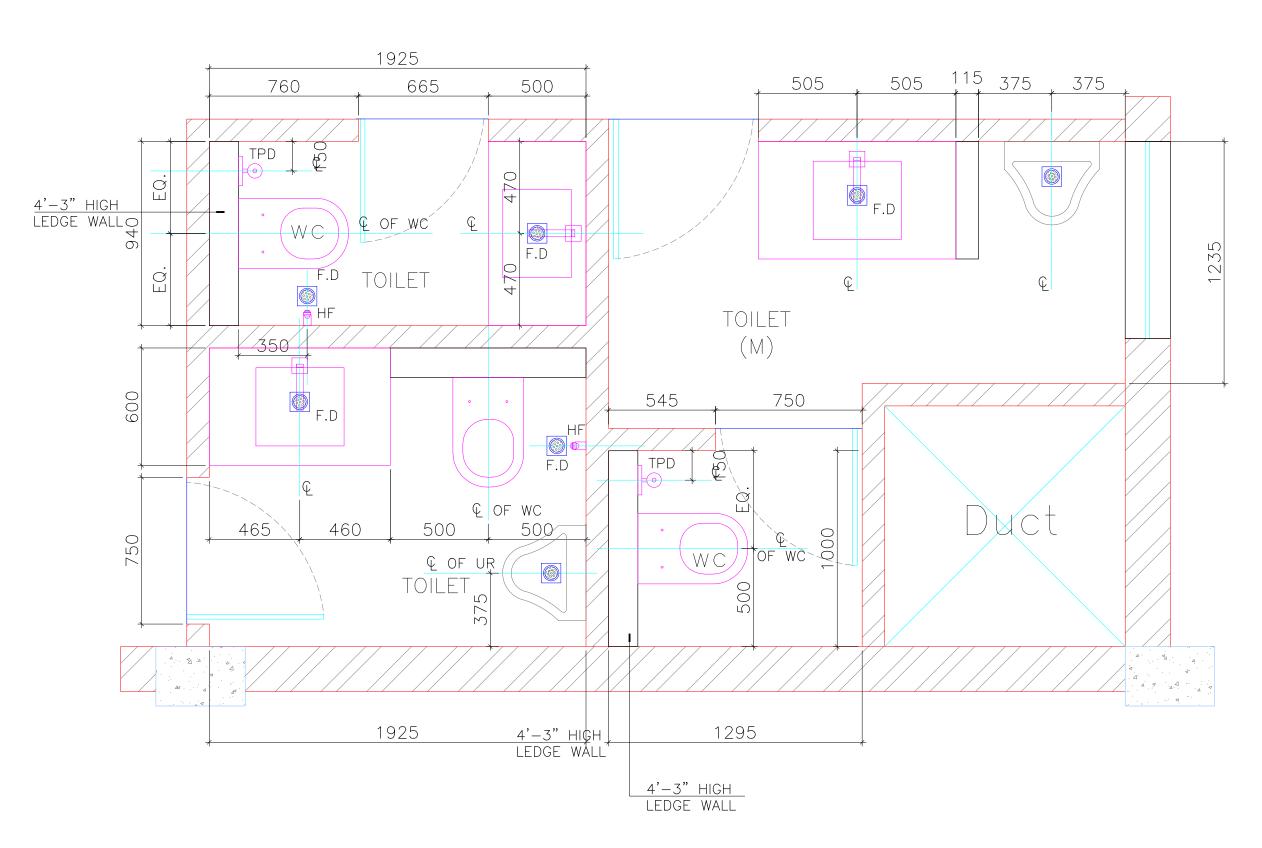
DEALT: CHECKED: Ar. Rahul Chaudhary Ar. Manoj Kumar **SCALE**: 1:75 DATE:

SHEET No/

DRAWING NO.:

OPTION/ REVISION VVA/BANK/CNR/CO/PL/6.5

2nd floor plumbing - left side toilet part layout plan



for tender drawing

PROJECT:

INTERIOR FURNISHING WORKS OF CANARA BANK CIRCLE OFFICE, KARNAL (H.R)

CLIENT NAME & ADDRESS:



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karnal- 132001, Mob:- 90100-75111

e,ail:- pecokar@canarabank.com

CONSULTANTS NAME & ADDRESS :

VaAStU Vikalp **Architects**

Sh-24, First Floor, S2S Square, Garh Road, Meerut- 250002 Ph:9899328602, 9997591118,

vva.global@gmail.com ARCHITECT:

Ar. Rahul Chaudhary

DRAWING TITLE:

1st floor plumbing - left side toilet part layout plan

DEALT: CHECKED: Ar. Rahul Chaudhary Ar. Manoj Kumar **SCALE :** 1:75 DATE: OPTION/ REVISION

SHEET No/

DRAWING NO.:

WA/BANK/CNR/CO/PL/6.7

1st floor plumbing - left side toilet part layout plan