


LEGEND : (Plumbing)		
S. No.	SYMBOL	DESCRIPTION
1.	(S)	1100 UPVC SOIL AND VENT PIPE
2.	(W)	1100 UPVC WASTE AND VENT PIPE
3.	(V)	750 UPVC ANTI SYPHONAGE PIPE
4.	(B)	750 UPVC RAIN WATER PIPE
5.	(R)	1100 UPVC RAIN WATER PIPE
6.	(C1)	DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
7.	(C2)	DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
8.	(H)	HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
9.	(F)	RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
10.	(G)	GEYSER
11.	(W.M.)	WASHING MACHINE
12.	(W.P.)	WATER PURIFIER
13.	(A.T.)	ABLUTION TAP
14.	(H.S.)	HEALTH SPRAY WITH ANGLE VALVE
14.	(T)	TAP
14.	(M.S.)	MIXTURE & SHOWER
15.	(CWS)	COLD WATER SUPPLY PIPE (CWS)
16.	(HWS)	HOT WATER SUPPLY PIPE (HWS)
17.	(SWS)	SOLAR HOT WATER SUPPLY PIPE (SWS)
18.	(RWS)	RECYCLED WATER SUPPLY PIPE (RWS)
19.	(PVC)	250 PVC AC DRAIN BRANCH CONNECTION
19.	(IV)	ISOLATING VALVE
20.	(IVM)	ISOLATING VALVE IN MASONRY CHAMBER
20.	(NRV)	NON RETURN VALVE
20.	(DP)	DRAIN POINT
21.	(MFT)	MULTI FLOOR TRAP - 6" deep (50 mm seal)
22.	(PT)	P TRAP (110 X 110 MM) - long type (50 mm seal)
23.	(ST)	S TRAP (110 X 110 MM) (50 mm seal)
23.	(EWC)	EUROPEAN W. C.
24.	(OPWC)	ORRISA PAN W. C.
24.	(FBWB)	FLAT BACK WASH BASIN
25.	(CWB)	COUNTER WASH BASIN
26.	(U)	URINAL
27.	(SWDB)	SINK WITH DRAIN BOARD
28.	(SWODB)	SINK WITHOUT DRAIN BOARD

NOTES : (Plumbing)		
1.	COLD WATER SUPPLY PIPE MATERIAL	
a)	For inside toilet (domestic)	CPVC (SDR-11) with solvent cement joints
b)	For inside toilet (recycle)	UPVC SCH 40 Pipes With SCH 80 fittings by solvent cement joint
c)	For duct / terrace	UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
d)	For basement ring main	G.I. (CLASS B) by lefton tape
e)	For riser to 10 OHT	UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
f)	From OHT to terrace M.	G.I. (CLASS B) by lefton tape
2.	Hot water supply pipe material	
a)	For inside toilet	CPVC (SDR-11) with solvent cement joints
b)	For duct / terrace	CPVC (SDR-11) with solvent cement joints
3.	The water supply pipe diameter mention on the drawing is nominal bore ID.	
4.	Soil / waste / vent / rain water pipe material	
a)	Up to 85 mm dia pipe (bollet floor)	UPVC (6 KG/SQ.CM.) as per IS : 4985 (suitable for solvent cement joint)
b)	75 / 90 / 110 / 160 mm dia pipe (vertical pipe in shaft)	UPVC (TYPE B) (SWR grade) as per IS : 13592 & IS : 14735 (suitable for rubber ring joint)
c)	75 / 110 mm dia pipe (under toilet floor)	UPVC (TYPE B) (SWR grade) as per IS 13592 & IS 14735 (suitable for solvent cement joint)
5.	Allow floor sanitary fixtures (below which the vertical Soil / Waste pipe is turning horizontally) can only be connected into vertical / horizontal Soil / Waste Pipe only after min. 2.5 M. distance.	
6.	All the floor traps which are directly connected to pipe and manhole shall strictly be of P Trap (long type) with min. 50 mm seal.	
7.	The sunken floor of toilets and wet areas shall be provided with Water proofing Treatment, slope and a 32 m.m. G.I. spout.	
8.	The slope of the pipes laid under toilet floor shall be in between 1 in 10 to 1 in 40.	
9.	The slope of toilet floors towards the floor trap shall be 1 in 40 (minimum).	
10.	The slope of terrace from ridge line towards rain water pipes shall be 1 in 100 to 1 in 125.	
11.	All hot water pipes on terrace / duct shall be insulated by nitrile rubber, the thickness of insulation will be :-	
a)	For 15 & 20 mm dia. pipe	9 mm thick
b)	For 25, 32 & 40 mm dia. pipe	13 mm thick
c)	For 50 mm & above dia. pipe	19 mm thick
For terrace installation the nitrile rubber insulation will be protected by polyshield mechanical protection.		
12.	50 m.m. dia. G. I. spout / 900 PVC pipe shall be provided for each open staircase / landings.	
13.	100 / 125 m.m. dia. UPVC sleeves shall be provided in sunken toilet / kitchen beams before casting for soil / waste pipes respectively.	
14.	All soil & waste pipes laid under toilet / kitchen floor shall be covered around with 75 m.m. C.C. (1:1.5:3)	
15.	Soil / waste / rain water pipe in basement / slab shall be suspended from ceiling through G.I. hangers.	
16.	All s.w.c's shall be floor mounted type and the model should be so selected, that the S trap outlet centre should be 200 - 300 mm from back wall. (unless specifically specified)	
17.	The mounting height of different appliances / taps shall be as under	
a)	Wall mixture (for bathing)	1050 m.m.
	O R	
a)	Single lever diverter	1100 m.m.
b)	Spout (for bathing)	850 m.m.
b)	Shower	2050 m.m. / or as specified
c)	Kitchen tap / mixture	Table top /1050 m.m.
d)	Angle valve	
i)	For toilet geyser	1550 m.m. / or as per site
ii)	For kitchen geyser	2200 m.m. / or as per site
iii)	For washing machine	600 m.m.
iv)	For water purifier	1050 m.m.
v)	For health spray (for W.C.)	300 m.m.
vi)	For castem (for W.C.)	300 m.m.
vii)	For wash basin	500 m.m.
e)	For wash basin (top of rim)	800 - 850 m.m.
f)	Abution tap	300 m.m.
g)	For urinal lip	600 m.m.
18.	The Colour Codes for different types of Plumbing Pipes shall be as under	
a)	For Cold Water	Blue
b)	For Cold Water (Hydropneumatic)	Blue + White Band
c)	For Hot Water	Magenta
d)	For Recycle Water	Green
e)	For Fire Hydrant	Red
f)	For Fire Sprinkler	Red + White Band
g)	For Soil / Waste	Grey
h)	For Rain Water	See Green
i)	For Gas Pipe	Yellow

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rev. no.	date	revision
project GROUP HOUSING-1 AT SIVANSSH INFRASTRUCTURE DEVELOPMENT PVT.LTD. SECTOR 11 VRINDAVAN YOJNA,LUCKNOW.		
title PLUMBING DRAWING		
subtitle GROUND FLOOR PLAN		
drawing released for <input checked="" type="checkbox"/> APPROVAL <input type="checkbox"/> SUBMISSION <input type="checkbox"/> ADVANCE COPY <input type="checkbox"/> CONSTRUCTION		
drg. no.	CES-SH-PL-93	drawn by Imran
scale	A1@1:125	designed by Shakir Shabbir
date	JUNE.2016	checked by Anand Havelia
architects AGRAWAL & ASSOCIATE		
services consultant Consummate Engineering Services (P) Ltd.  Noida Office : B - 67, Sector - 67, Noida - 201 301 Tel : (0120) 6943500 / 24 Lines) Lko. Office : R 006, Rohtas Plumeria, Gomti Nagar, Lucknow e mail : mail@cespln, website : www.cespln		