VARIOUS NORMS FOLLOWED IN URBAN WATER SUPPLY SCHEMES

URBAN NORMS										
1.	Design Period	Base year -2 Intermediate-2 Ultimate -	Lr.No.F.HOTC/AE10/PDC/2008/ dt.26.2.2009. The base year is applicable till receipt of orders on revision as per SLTC minutes dated.13.12.2010							
2.	Population		crease, Ir	by the fol	llowing methods I increase, Geometrical increase, line of best					
3.	Pro-rata supply	Town Panchayats	With out UGSS		70 lpcd	MD, TWAD, Lr.No.20696/DO/ P&D/98-1/Dt.20.6.1998				
			With UGSS		90 lpcd	MD, TWAD, Lr.No.81110/SDO/ PDC/2010/Dt.8.11.2010				
			Adjoining the boundary of any Municipal corporation		90 lpcd	B.P.Ms.No.102(PDC)/ dt.23.11.2010				
		Municipalities With out			90 lpcd	MD, TWAD, Lr.No.20696/DO/ P&D/98-1/Dt.20.6.1998				
			With UC	GSS	135 lpcd	MD, TWAD, Lr.No.81110/SDO/ PDC/2010/Dt.8.11.2010				
			Adjoining the boundary of any Municipal corporation		110 lpcd	B.P.Ms.No.102(PDC)/ dt.23.11.2010				
		Corporation			135 lpcd	MD, TWAD, Lr.No.81110/SDO/ PDC/2010/Dt.8.11.2010				
		Urban Towns/o GOI funding ur JnNURM		135 lpcd	MD, TWAD, Lr.No.81110/SDO/ PDC/2010/Dt.8.11.2010					
4.	Transmission loss	10% of require	ed deman	ıd		MD, TWAD Circular No. F.HOTC /AE2/PDC/2008/dt.10.11.2008				
5.	Treatment loss if treatment is proposed	5 % of required clear water demand								
6.	Industrial demand	10 % of Total demand				As per GO. Ms. No.2, MA &WS (WS4) Dept, Dt.3.1.2011				
7.	Hours of pumping	23 Hours for surface and sub surface water 12-16 hours for Ground water as per the recommendation of Hydro Geologist								
8.	Sump capacity	Sump capacity detailed below higher 5000 lit	and rour	nded off to	off to next (WS2) Dept, Dt.27.12.2010					
		Rate of inflow rate of out flow remains the sa	v me		letention time					
		Rate of inflow rate of out flow differs	ate of out flow flow			By calculating cumulative inflow and cumulative out flow and working out the maximum cumulative deficit or surplus.				

		Breal	Resure tanks	10 minutes detention time			
9.	Pump sets	Draw 2000 Ipm Draw below	val of water than 5000 lpm val of water from lpm to 5000 val of water v 2000 lpm ency of pumpset t		ertical turbine umpset urbine umpset or orizontal split asing pumpset ubmersible umpset ue adopted –	MD, TWAD, Lr.No.81110/SDO/ PDC/2010/Dt. 8.11.2010 & 16.11.2010	
10.	Selection of materials for pipe line	SI. No	Pipe materia	I	Reco	ommendation	
		Α.	METALLIC PIF	PES			
		1.	CI Pipes (IS.1536-2001)		CI D/F and S/S River Crossing	B.P.Ms.No	
		2.	MS Pipes (IS.3589/2001 & IS.5504-1997) CEMENT PIPES		1.For pumping sizes upto 6 Supply and Sewerag Gasket Joints 2.Pipe connect of capacity > 3. Distribution a) For Corpareas: K7/K9 b) For Town habitation K7/K9 > 600 mm c Pipes in converse		
		В.					
		1.	RCC pipes (IS.458- 2003)		Not recommer Non-pressure for UGSS in Co		
		2.	PSC Pipes (IS.784-2001) Stoneware Pipes (IS.651 – 1992) PLASTIC PIPES		Only of size 3 pressure Branc		
		3. C.			<= 300 mm Sewerage Scho		
		1. PVC pipes (IS.4585 – 2000)	Distribution syna. For Corpareas: b. For Townhabitation		
		2.	HDPE pipes (IS.4984 –1995)		such scheme labour and sp	should be used only in ss/areas where skilled ecialized equipments for maintenance are easily	

		3. UPVC (IS.15328 –2003)		e Conne	ections in UGSS.		
11.	Service	1/3 rd of total intermediate requirement			GO. D. No.621, MA &WS		
	Reservoir	rounded off next higher	10000 litres.		(WS2) Dept, Dt.27.12.2010		
12.	Distribution system	Length -As required by Local Body Minimum residual pressure – i)12 Metres for the zones where new OHTs are proposed ii) 7 Metres for the zones which are served by the existing OHTs					
13.	charges ii) @ 5% for al (Municipal		MNP dt15. cipalities and corporations)		S.No.34(WS4)MA&WS Dept. 02.2010,		
				G.O. MS. No. 308 ,(MA&WS 4) WS Dept Dt.15.12.2010.			