

TWAD BOARD
NORMS / GUIDELINES FOR RURAL WATER SUPPLY SCHEMES

Sl. No.	Criteria	Description		Reference
1.	Scheme type	Multi Village Schemes (MVS)		
	Implementation period	2 – 3 years		As per CPHEEO manual
	Stages of project shall be constructed as	Base year	Year of conception + 2 or + 3	MD/TWAD, Circular No.F.General/JJM/DO/P DC/ 2020, dt.13.05.2020
		Intermediate	Base year + 15 years	
Ultimate	Base year + 30 years			
2.	Population	Population Projection is being computed by the following methods Arithmetical increase, Incremental increase, Geometrical increase, Decadal growth rate line of best fit, Graphical method etc.,		As per CPHEEO manual
3.	Demand	Description	Rate of supply	
		Domestic demand	55 lpcd	MD/TWAD, Circular No.F.General/JJM/DO/P DC/ 2020, dt.13.05.2020
		Adjoining the boundary of any municipal corporation	70 lpcd	B.P.Ms.No.102 (PDC)/ dt.23.11.2010
		Industrial demand	10% of domestic demand	G.O.Ms.No.2 MA&WS (WS2) dept, dt:03.01.2011
		Transmission loss	10% of total water demand	As per CPHEEO manual
		Treatment loss	3 – 5% of required clear water demand	
4.	Design period	Electric motors & pumps and Water Treatment Plant	15 years	As per CPHEEO manual MD/TWAD, Circular No.F.General/JJM/DO/P DC/ 2020, dt.13.05.2020
		1. Source 2. Raw water main 3. Pumping / branch/ feeder main 4. Sump, pump room and service reservoirs 5. Distribution system	30 years	

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5.	Hours of pumping	For drawal of a. Surface water b. Sub surface Pumping c. up to panchayat sump d. from panchayat sump to SRs	a. 23 hours b. 18 hours c. 18 hours d. 12 hours	MD/TWAD, Circular No.F.General/JJM/DO/PDC/ 2020, dt.13.05.2020
6.	Capacity of sumps	Sump capacity has to be rounded off to next higher 5000 litres, on the actual requirement		As per G.O.D.No.621, MA&WS (WS2) Dept, Dt.27.12.2010 MD/TWAD, Circular No.F. General/JJM/DO/PDC/ 2020, dt.13.05.2020
		Capacity of sumps shall be worked out as follows		
		When the rate of inflow and rate of outflow remains the same - 1 hour detention time		
		When the rate of inflow and rate of out flow differs - Mass curve method		
7.	Capacity of SR	$\frac{1}{2}$ of ultimate requirement (30 years) rounded off to next higher 10,000 litres		MD/TWAD, Circular No.F.General/JJM/DO/PDC/ 2020, dt.13.05.2020 G.O.No.621, MA&WS (WS2) Dept, dt.27.12.2010
		Capacity	Staging height	
		10,000 litres	7.5m	MD/TWAD, Circular No.F.General/JJM/DO/PDC/ 2020, dt.13.05.2020
		20,000 litres	7.5m	
		30,000 & above	12m	
8.	Transmission main – selection of materials for pipe line	As per guideline for selection of pipes and materials of TWAD Board		B.P.Ms.No.100, TWAD (RDT &PMC), dated:28.10.2022
9.	Distribution system & FHTCs	Provided by RD & PR Department		
10.	Centage	13% for schemes funded by GoI/GoTN	1.G.O.Ms.No.34 (WS4) MA&WS Dept, dt:15.02.2010 2.G.O.Ms.No.55 (WS4) MA&WS Dept. dt.23.02.2011	