

WATER MANAGEMENT PLAN

Details of Assessment Unit		
	State	Tamil Nadu
	District	Thanjavur
	Block/Mandal/Taluk/Firka	Taluk Papanasam/ Melatur Firka
	Category as per the latest ground water assessment (2017)	Over Exploited
Hydrogeological details		
	Normal Rainfall (mm)	
	Monsoon	896.0mm
	Non Monsoon	132.0mm
	Aquifer	Sandstone
	Discharge of Wells (lps)	
	Dugwells	-
	Borewells/Tubewells	3 to 5
	DCB	2.5
	Water Quality	Fresh
	Any other Quality Issue	
Annual Water Availability		
Fresh Water availability	Ground water (in MCM)	14.0715
	Surface water including major water bodies (in MCM)	0.213
Grey water availability	Domestic (in MCM)	0.0971
	Industrial (in MCM)	0.0648
Annual water consumption		
	Agriculture (in MCM)	13.7790
	Domestic (in MCM)	0.1619
	Industrial (in MCM)	0.1079
	Decadal Water consumption trends (period) (MCM/year(Rise/falling/no change))	Couldn't derived
Common GW abstraction structures	Types (Dug well/Borewell/TW/DCB etc.)	Dug well & Bore well
	Average depth (mbgl)	
	Dugwells	8 to 15
	Borewells/Tubewells	60 to 120
	DCB	60 to 120

Future availability		
	Surface water (MCM)	
	Ground water (MCM)	0
Monitoring		
Surface water Monitoring	Average inflow (Cusec)	
	Average outflow (Cusec)	
	Quality (Potable/Non potable)	Potable
Ground water monitoring	Average DTW (mbgl)	AvgPreMonsoon: 8.45 AvgPostMonsoon:4.69
	Average decadal water level trends (m/year(Rise/falling/no change))	fall
Water management options and mitigation		
Recycle and Reuse	Reuse of domestic waste water (Flushing, Horticulture, Agriculture, Industry, Construction, etc)	Available treated water Used for Horticulture and industrial uses
	Reuse of Industrial water	It is being managed within the industrial purpose like cleaning, gardening etc.,
	Adaptive management strategies	Suggestion for crop diversification, micro- irrigation etc.
Water conservation and recharge	Type of artificial recharge RWH structure feasible	Rooftop RWH structures, percolation ponds, construction of Check dams

Abbreviations used

mm: millimetre

lps : Litres Per Second

MCM: Million Cubic Metre

TW: Tube Well

DCB: Dug Cum Bore well

Mbgl: Metres below groundlevel

Cusec: One cubic foot per second

DTW: Depth to water level

RWH: Rainwater Harvesting