

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
MARADU(M)



District
ERNAKULAM



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Biju M K	Municipal Engineer	0484-2706744	9847569696	municipalengineer@maradu@gmail.com
Mayor.Pre	ANTONY ASHANPARAMBU	NA	0484-2706744	9847260508	secretarymaradu@gmail.com
Municipal.C/C.Ofc	G RENUKADEVI	NA	0484-2706544	8606631172	secretarymaradu@gmail.com
Head,W.S/S.De	PREETHA	NA	0484-2777960	8547638144	aekwathripunithura@gmail.com
HOD/P.H.de	JACOBSON	NA	0484-2706544	9446054350	secretarymaradu@gmail.com

Parastatal Agency

Any parastatal agency engaged? : **Yes**

No. Of Parastatal Agency : **1**

#	Organization name	Nodal officer name	Designation	Landline no.	Mobile no.	E-mail ID
1	Kerala Water Authority	PREETHA	ASSISTANT EXECUTIVE ENGINEER	0484-2777960	8547638144	aekwathripunithura@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	44704	Households (Census 2011)	11038	City area (sq. km.)	12.35
Wards in city	33	Slum settlements (No.)	00	Industries (No.)	00
Industrial clusters	00	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	53645	Households in 2021(no.)	13246
Population density	4344	Slum population in 2021	00	Slum households 2021	0




Future Projection

City population in 2025	57937	Households in 2025	14305	Slum households in 2025	0
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Engineering College/ Organization/ Experts Working in Water Sector in the ULB

#	Type	Entity name	Nodal officer name	Landline no.	Mobile no.	E-mail ID
1	Engineering College	Kerala University of Fisheries Ocean Studies	BIJU MK	04842706544	9847569696	utypanangad@kufos.ac.in

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Water Body	Ayinni thodu	
2	Park	Maradu SN Park	
3	Sewage Treatment Plant/ Water Treatment Plant	Nettoor KWA	
4	Women Self Help Group	CDS	

Water Supply

Major Water Sources Details

#	Type	Name / Location	No. of water tapping points	Quantity of water tapped in MLD	Location outside	Distance in km.
1	River	Muvattupuzha Pazhoor	1	16	Yes	25

Water Treatment Plants (WTP)

#	Location of WTP	Designed capacity in MLD	Operational capacity in MLD	Water supply source	Technology used for automatic monitoring
1	Pazhoor	16	16	Muvattupuzha Pazhoor	Other(Mechanical)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	12593	12593	14.426
2	Commercial Establishments	1127	NA	1.515
3	Industries	5	NA	0.059
4	Slums	0	0	0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	14.426	Water supply directly through tankers in MLD	0	Water supply through tubewell & borewell in MLD	0
Treated water supply in MLD	0	Total water supply in MLD	14.426	Average per capita water supply in LPCD	282.854

Estimated Future Water Demand in 2025 (in MLD)

Residential/ Households including slums	16.625	Commercial establishments	3.5	Industries	0
Institutional establishments	0.875	Slums	0	Total	21
Are you going to met the 100% future demand through subsurface water source?	Yes	How much future demand in MLD will be met through subsurface water source?	NA		

WB Rejuvenation & RWH

Rainwater Harvesting (RWH)

Is rainwater harvesting included in bylaws?	Yes	Status	Implemented	No. of water tanks at religious places in your city	3
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Water Source Quality Assessment

#	Type	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
1	Water Body	Chambakkara canal	0.036		9.954405 - 76.31862	Bad	No
2	Water Body	Boundry thodu	0.007		9.94168 - 76.33261	Bad	No
3	Water Body	Ayinni thodu	0.008		9.94419 - 76.32209	Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	11.541	Sewage treated through STP in MLD	0

Household not connected to sewer network					
No. of households covered	0	Sewage generated in MLD	0	Sewage treated through STP in MLD	0

Septage Coverage

No. of households covered	0	Sewage generated in MLD	0	Sludge treated through FSSM in KLD	0	Grey water recycled in MLD	0
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Sewage Treatment Plants (STP)

#	Location of STP	Designed capacity in MLD	Operational capacity in MLD	Reused capacity in MLD	Reuse purpose	Revenue from reused water	Automatic monitoring?	Technology used
No data available in table								

City Water Balance Plan Summary

Current Infrastructure assets/supply FY21-22 (A)		Projected consumption/demand FY25-26 (B)		Estimated gap FY25-26 (C)= (B)-(A)	
Water Supply					
Water supplied to households	14.426	Water demand	21	Gap in water supply	6.574
Water treatment capacity	16	Water to be treated	21	Gap in water treatment	5
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	12593	Total households including slums	14305	Gap in households tap connections including slums	1712
Used Water					
Used water being treated	0	Used water generation	13.3	Gap in used water treatment	13.3
Used water being recycled	0	Used water to be recycled (20%)	2.66	Gap in used water recycling	2.66
Sewer connections provided (including coverage with septage management)	0	Total households	14305	Gap in household sewer connections/ coverage with septage management	14305