

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
THIRUVALLA (M)



District
PATHANAMTHITTA



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	BINDU VELAYUDHAN	Assistant Executive Engineer		9947354479	aetmc@gmail.com
Mayor.Pre	BINDU JAYAKUMAR	NA	04692602486	9544928046	secretarytvla@gmail.com
Municipal.C/C.Ofc	SHIBU V P	NA	04692631218	9961714083	secretarytvla@gmail.com
Head,W.S/S.De	S VENKATESAPATHY IAS	NA		9447798383	mdunitkwa@gmail.com
HOD/P.H.de	AJAYMOHAN	NA		9446552524	thqhtvl@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	Valsala Kumari	Asst Ex Engineer	04692700748	8547638242	kwaphsdtvla@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	52883	Households (Census 2011)	13058	City area (sq. km.)	28
Wards in city	39	Slum settlements (No.)	0	Industries (No.)	1
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	63460	Households in 2021(no.)	15669
Population density	2266	Slum population in 2021	0	Slum households 2021	0

Future Projection

City population in 2025	68537	Households in 2025	16923	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	Organization	KERALA WATER AUTHORITY	VALSALA KUMARI	04692700748	8547638242	kwaphsdtvla@gmail.com

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Water Body	MANIMALA RIVER	
2	Water Body	Kuttappuzha Thodu	
3	Water Body	Plappara Pond	
4	Water Body	Kulathinkara Pond	
5	Park	Municipal Park At Ambili Junction	
6	Park	Municipal Park	
7	Sewage Treatment Plant/ Water Treatment Plant	Water Treatment Plant	
8	Water Body	Thaikkulam	
9	Water Body	Public Pond In Ward 24	
10	Water Body	Varal Thodu	
11	Water Body	Chantha thodu	
12	Women Self Help Group	Women Self Help Group	

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	PAMPA RIVER	1	13	No	NA
2	River	MANIMALA RIVER	1	4	Yes	3.5

Water Treatment Plants (WTP)

#	Location of WTP	Designed capacity in MLD	Operational capacity in MLD	Water supply source	Technology used for automatic monitoring
1	UWSS TO THIRUVALLA CHANGANASSERY MUNICIPALITY 35 mld	13	13	PAMPA RIVER	Other(MANUAL TECHNOLOGY)
2	KWSS 33 MLD	4	4	MANIMALA RIVER	Other(MANUAL TECHNOLOGY)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	8627	8627	9
2	Commercial Establishments	485	NA	2
3	Industries	6	NA	2
4	Institutional Establishments	400	NA	1
5	Slums	0	0	0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	9	Water supply directly through tankers in MLD	0.01	Water supply through tubewell & borewell in MLD	0
Treated water supply in MLD	0	Total water supply in MLD	9.01	Average per capita water supply in LPCD	257.589

Estimated Future Water Demand in 2025 (in MLD)

Residential/ Households including slums	15	Commercial establishments	4	Industries	3
Institutional establishments	3	Slums	0.25	Total	25
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	9
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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	MANIMALA RIVER	44			Good	No
2	Water Body	CHANTHA THODU	11			Bad	No
3	Water Body	VARAL THODU	8			Bad	No
4	Water Body	KULANTHINKARA P POND	1.177			Bad	No
5	Water Body	PLAPPARA POND	0.176			Bad	No
6	Water Body	PUBLIC POND IN WARD 24	0.063			Bad	No
7	Water Body	THAIKKULAM	0.193			Bad	No
8	Water Body	KUTTAPPUZHA THODU	3.44			Bad	No
9	Community Well	Ward 1	0.001			Bad	No
10	Community Well	Ward 2	0.002			Bad	No
11	Community Well	ward 2	0.002			Bad	No
12	Community Well	Ward 4	0.001			Bad	No
13	Community Well	Ward 8	0.001			Bad	No
14	Community Well	Ward 9	0.001			Bad	No
15	Community Well	Ward 9	0.002			Bad	No
16	Community Well	Ward 10	0.002			Bad	No
17	Community Well	Ward 15	0.001			Bad	No
18	Community Well	Ward 13	0.001			Bad	No
19	Community Well	Ward 33	0.001			Bad	No
20	Community Well	Ward 12	0.002			Bad	No
21	Community Well	Ward 12	0.001			Bad	No
22	Community Well	Ward 12	0.001			Bad	No
23	Community Well	Ward 19	0.001			Bad	No
24	Community Well	Ward 19	0.001			Bad	No
25	Community Well	Ward 18	0.001			Bad	No
26	Community Well	Ward 18	0.001			Bad	No
27	Community Well	Ward 34	0.001			Bad	No
28	Community Well	Wrd 35	0.001			Bad	No

#	Type	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
29	Community Well	Ward 28	0.001			Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	7.208	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	7.208	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	9.01	Water demand	25	Gap in water supply	15.99
Water treatment capacity	17	Water to be treated	25	Gap in water treatment	8
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	8627	Total households including slums	16923	Gap in households tap connections including slums	8296
Used Water					
Used water being treated	0	Used water generation	12	Gap in used water treatment	12
Used water being recycled	0	Used water to be recycled (20%)	2.4	Gap in used water recycling	2.4
Sewer connections provided (including coverage with septage management)	0	Total households	16923	Gap in household sewer connections/ coverage with septage management	16923