

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
VAIKOM (M)



District
KOTTAYAM



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Jayakumar B	Municipal Engineer	04829232320	9847841464	melsgdvaikom@gmail.com
Mayor.Pre	Renuka Ratheesh	NA	04829232320	9496791811	mailtovaikommunicipality@gmail.com
Municipal.C/C.Ofc	Remya Krishnan	NA	04829232320	9019746581	mailtovaikommunicipality@gmail.com
Head,W.S/S.De	Venkateshpathy IAS	NA		9447798383	mdunitkwa@gmail.com
HOD/P.H.de	Ajith V P	NA	04829232320	9497764470	mailtovaikommunicipality@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	Thara	Assistant Executive Engineer		8547638447	kwavkm@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	23245	Households (Census 2011)	5740	City area (sq. km.)	8.73
Wards in city	26	Slum settlements (No.)	5	Industries (No.)	16
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	27894	Households in 2021(no.)	6887
Population density	3195	Slum population in 2021	553	Slum households 2021	137

Future Projection

City population in 2025	30126	Households in 2025	7439	Slum households in 2025	148
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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	Thara		8547638447	kwavkm@gmail.com

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Park	Mookambichira Pond	
2	Water Body	Poorakkulam Pond	
3	Water Body	Aruvathodu Canal	
4	Water Body	Naranathu Thodu Canal	
5	Women Self Help Group	cleaning streams	
6	Women Self Help Group	cleaning streams	
7	Park	municipal park	
8	Park	municipal park	
9	Park	municipal park	
10	Park	municipal park	

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	Mevallur	1	1.73	Yes	10

Water Treatment Plants (WTP)

#	Location of WTP	Designed capacity in MLD	Operational capacity in MLD	Water supply source	Technology used for automatic monitoring
1	WTP Mevallur	1.73	1.73	Mevallur	Other(Rapid sand filter)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	5619	5619	1.230
2	Commercial Establishments	143	NA	0.3
3	Industries	3	NA	0.1
4	Institutional Establishments	15	NA	0.1
5	Slums	0	0	0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	1.23	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	1.23	Average per capita water supply in LPCD	54.049

Estimated Future Water Demand in 2025 (in MLD)

























Residential/ Households including slums	5	Commercial establishments	1.0	Industries	1.0
Institutional establishments	1	Slums	0	Total	8
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	2
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Water Source Quality Assessment

#	Type	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
1	Community Well	Chalapparambu	0.01			Bad	No
2	Community Well	Kochukavala	.01			Bad	No
3	Community Well	Mattappally	0.01			Bad	No
4	Community Well	BOYS School	0.01			Bad	No
5	Community Well	Odiyathra	0.01			Bad	No
6	Community Well	Udayanapuram	4			Bad	No
7	Water Body	Aruvathodu Canal	6			Bad	No
8	Water Body	Andhakarathodu Canal	0.01			Bad	No
9	Water Body	Kaniyamthodu Canal	12			Bad	No
10	Water Body	Perinjila Thodu Canal	9			Bad	No
11	Water Body	Mattapply Thodu Canal	9			Bad	No
12	Water Body	Padavelithodu Canal	6			Bad	No
13	Water Body	Vayanavelithodu Canal	10.5			Bad	No
14	Water Body	Vallakom Chullithara Idathodu	9			Bad	No
15	Water Body	Ambattu Thodu Canal	4.5			Bad	No
16	Community Well	MUNICIPAL OFFICE WELL	6			Bad	No
17	Water Body	Arakkathil Thodu	4.5			Bad	No
18	Water Body	Peringadan chira Thodu	2.4			Bad	No
19	Water Body	K V Canal	12			Bad	No
20	Water Body	Mookambika Pond	0.4			Bad	No
21	Water Body	Poorakulam Pond	0.01			Bad	No
22	Water Body	MUNICIPAL OFFICE	0.01			Bad	No
23	Water Body	arattukulam	0.01			Bad	No
24	Water Body	kalikulam	0.01			Bad	No
25	Community Well	muriyankulangara	0.01			Bad	No



Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	0.984	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	1.23	Water demand	8	Gap in water supply	6.77
Water treatment capacity	1.73	Water to be treated	8	Gap in water treatment	6.27
Households with tap connections in slums	0	Total slum households	148	Gap in household tap connections	148
Households covered with Tap connections (City)	5619	Total households including slums	7439	Gap in households tap connections including slums	1820
Used Water					
Used water being treated	0	Used water generation	4	Gap in used water treatment	4
Used water being recycled	0	Used water to be recycled (20%)	0.8	Gap in used water recycling	0.8
Sewer connections provided (including coverage with septage management)	0	Total households	7439	Gap in household sewer connections/ coverage with septage management	7439