

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
KOTHAMANGALAM (M)



District
ERNAKULAM



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Eldhose Paul	Assistant Engineer	04852822160	9048521095	mekothamangalam@gmail.com
Mayor.Pre	Tomy KK	NA	04852822160	9447319983	secretarykothamangalam@gmail.com
Municipal.C/C.Of c	Ansai Isaac	NA	04852822160	9916407067	secretarykothamangalam@gmail.com
Head,W.S/S.De	Nisha	NA	8547638441	8547638441	aekothamangalam1@gmail.com
HOD/P.H.de	Dr Anjaly	NA	04852822603	9446543553	chckothamangalam@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 Aunority	Dinil Varghese	Assistant Engineer		8547638442	aekothamangalam1@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	38837	Households (Census 2011)	9589	City area (sq. km.)	40.04
Wards in city	31	Slum settlements (No.)	0	Industries (No.)	5
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	46604	Households in 2021(no.)	11507
Population density	1164	Slum population in 2021	0	Slum households 2021	0

Future Projection

City population in 2025	50332	Households in 2025	12428	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	Mar Athanasius College of Engineering	Jai M Paul	04852570333	9746097584	jaimpaul@mace.ac.in

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Water Body	Karinga Chira	
2	Water Body	Moolottu Chira	
3	Water Body	Mundu Chira	
4	Water Body	Kuroor Thode	
5	Water Body	Kozhippilly River	 
6	Park	Municipal Park Kothamangalam	  
7	Women Self Help Group	Kudumbasree	  
8	Sewage Treatment Plant/ Water Treatment Plant	KWA Water Treatment Plant	   

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	Kozhippilly River	2	9.00	No	NA
2	River	Kuroor Thode	2	0.20	No	NA
3	Pond	Ponds in different wards	4	0.35	No	NA

Water Treatment Plants (WTP)

#	Location of WTP	Designed capacity in MLD	Operational capacity in MLD	Water supply source	Technology used for automatic monitoring
1	KWA Kozhippilly	9	7.20	Kozhippilly River, Kuroor Thode, Ponds in different wards	Other(Water meter)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	7246	7645	3.3
2	Commercial Establishments	841	NA	2.40
3	Institutional Establishments	22	NA	0.80
4	Industries	5	NA	0.40
5	Slums	0	0	0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	3.3	Water supply directly through tankers in MLD	0	Water supply through tubewell & borewell in MLD	2.20
Treated water supply in MLD	0	Total water supply in MLD	5.5	Average per capita water supply in LPCD	106.581

Estimated Future Water Demand in 2025 (in MLD)




Residential/ Households including slums	7.50	Commercial establishments	3.50	Industries	1.00
Institutional establishments	1.20	Slums	0	Total	13.2
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	0
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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	Mundu Chira	4000			Bad	No
2	Water Body	Karinga Chira	3000			Bad	No
3	Water Body	Moolottu Chira	3500			Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	4.4	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	5.5	Water demand	13.2	Gap in water supply	7.7
Water treatment capacity	9	Water to be treated	13.2	Gap in water treatment	4.2
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	7645	Total households including slums	12428	Gap in households tap connections including slums	4783
Used Water					
Used water being treated	0	Used water generation	6	Gap in used water treatment	6
Used water being recycled	0	Used water to be recycled (20%)	1.2	Gap in used water recycling	1.2
Sewer connections provided (including coverage with septage management)	0	Total households	12428	Gap in household sewer connections/ coverage with septage management	12428