

# CITY WATER BALANCE PLAN

## Basic Details

### ULB Information



City  
KOZHIKODE



District  
KOZHIKODE



State  
KERALA



Existing AMRUT City  
Yes

	Name	Designation	Landline No.	Mobile No.	E-mail ID
<b>Nodal Officer</b>	Santhosh M V	Executive Engineer	0495-2365040	8943440649	cekozhikodecorporation@gmail.com
<b>Mayor.Pre</b>	Beena Philip	NA	04952365040	9447265040	mayorkozhikode@gmail.com
<b>Municipal.C/C.Ofc</b>	BINI K U	NA	04952365040	9645397647	secretarykkd@gmail.com
<b>Head,W.S/S.De</b>	DILEEP M S	NA	04952365040	9074414323	cekozhikodecorporation@gmail.com
<b>HOD/P.H.de</b>	Dr Sasikumar	NA	4952365040	9567219449	healthofficerkkd@gmail.com

### Parastatal Agency

Any parastatal agency engaged? : **Yes**

No. Of Parastatal Agency : **2**

#	Organization name	Nodal officer name	Designation	Landline no.	Mobile no.	E-mail ID
1	Kerala water authority PH division	GIREESHAN P	Superintending Engineer		8547638024	sekkd@gmail.com
2	Kerala water authority PPD division	Sundareshan	Superintending Engineer		8547638026	seppdkkd@gmail.com

### City profile as per FY 2021-22

City population(Census 2011)	609224	Households (Census 2011)	150426	City area (sq. km.)	118
Wards in city	75	Slum settlements (No.)	60	Industries (No.)	1,831
Industrial clusters	6	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	731069	Households in 2021(no.)	180511
Population density	6196	Slum population in 2021	32627	Slum households 2021	8056




### Future Projection

City population in 2025	789555	Households in 2025	194952	Slum households in 2025	8700
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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	Government Engineering College Kozhikode	Dr K Najeeb	04952383220	4952383210	principal@geckkd.ac.in

**Uploaded Images**

#	Type	Name	Uploaded image(s)
1	Sewage Treatment Plant/ Water Treatment Plant	Manhole excavation	
2	Sewage Treatment Plant/ Water Treatment Plant	construction of collection tank	
3	Water Body	Mananchira water body	

## 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	CHALIYAR	2	35	Yes	20
2	Dam	PERUVANNAMUZHI DAM	1	70	Yes	45

### 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 PERUVANNAMUZHI	70	70	PERUVANNAMUZHI DAM	SCADA
2	WTP Mavoor koolimadu	35	35	CHALIYAR	Other(Nil)

### Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	95087	95087	53.47
2	Commercial Establishments	8574	NA	9.431
3	Industries	67	NA	1.675
4	Institutional Establishments	29	NA	6.6
5	Slums	7060	7060	4.289

### Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	53.47	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	53.47	Average per capita water supply in LPCD	149.982

### Estimated Future Water Demand in 2025 (in MLD)

Residential/ Households including slums	118.433	Commercial establishments	11.789	Industries	2.094
Institutional establishments	8.250	Slums	0	Total	140.566
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	99
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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	Ponguzhi kulam	.004			Good	No
2	Water Body	Kovilakum kulam at samuthiri padinjare kovilakum	.006			Good	No
3	Water Body	kuttichira kulam	.004			Good	No
4	Water Body	Sree Krishna temple pond	.003			Good	No
5	Water Body	Manachira pond	.017			Good	No
6	Water Body	Siva puri temple pond	.01			Good	No
7	Water Body	chemmenagad pond	.002			Good	No
8	Water Body	Korapuzha	0.89			Good	No
9	Water Body	Poonurpuzha	0.48			Good	No
10	Water Body	Kallai river	0.34			Good	No
11	Water Body	Mampuzha	0.24			Good	No
12	Water Body	Chaliyar	1.61			Good	No
13	Water Body	Canoli canal	0.31			Good	No
14	Water Body	Akalapuzha	0.95			Good	No

## Used Water

### Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	42.776	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
1	Kozhikode Medical College 2.1MLDSTP(100KLDSeptage)	2.1	2.1	0	Others(Nil)	0	No	NA
2	Kozhikode Medical College 1MLDSTP	1	1	0	Others(Nil)	0	No	NA
3	Avikkal thodu 7 MLD STP	7	5.5	0	Others(NIL)	0	Yes	SCADA
4	Kothi 6 MLD STP	6	5	0	Others(NIL)	0	Yes	SCADA

## 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)	
<b>Water Supply</b>					
Water supplied to households	53.47	Water demand	140.566	Gap in water supply	87.096
Water treatment capacity	105	Water to be treated	140.566	Gap in water treatment	35.566
Households with tap connections in slums	7060	Total slum households	8700	Gap in household tap connections	1640
Households covered with Tap connections (City)	95087	Total households including slums	194952	Gap in households tap connections including slums	99865
<b>Used Water</b>					
Used water being treated	0	Used water generation	94.746	Gap in used water treatment	94.746
Used water being recycled	0	Used water to be recycled (20%)	18.949	Gap in used water recycling	18.949
Sewer connections provided (including coverage with septage management)	0	Total households	194952	Gap in household sewer connections/ coverage with septage management	194952