

# CITY WATER BALANCE PLAN

## Basic Details

### ULB Information



City  
**KOLLAM**



District  
**KOLLAM**



State  
**KERALA**



Existing AMRUT City  
**Yes**

	Name	Designation	Landline No.	Mobile No.	E-mail ID
<b>Nodal Officer</b>	Shaji J	Executive Engineer	0474-2763707	8129097834	talktoshajijamal@gmail.com
<b>Mayor.Pre</b>	Prasanna Earnest	NA	0474-2768530	9447706869	kollamayor@gmail.com
<b>Municipal.C/C.Ofc</b>	Sajeev P K	NA	0474-2768530	9744405919	secretarykollam@gmail.com
<b>Head,W.S/S.De</b>	Sajeev C	NA	0474-2742192	8547638018	sephckwakollam@gmail.com
<b>HOD/P.H.de</b>	Ram Kumar M R	NA	0474-2768530	9745770052	gouriram@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
<b>1</b>	Kerala Water Authority	Sajeev C	Superintending Engineer	0474-2742993	8547638018	sephckwakollam@gmail.com

### City profile as per FY 2021-22

<b>City population(Census 2011)</b>	388288	<b>Households (Census 2011)</b>	98396	<b>City area (sq. km.)</b>	74
<b>Wards in city</b>	55	<b>Slum settlements (No.)</b>	97	<b>Industries (No.)</b>	998
<b>Industrial clusters</b>	10	<b>Population survey conducted in the last five years ?</b>	No	<b>Survey year</b>	NA
<b>Survey city population</b>	NA	<b>City population in 2021</b>	465946	<b>Households in 2021(no.)</b>	115048
<b>Population density</b>	6297	<b>Slum population in 2021</b>	35949	<b>Slum households 2021</b>	8876

### Future Projection

<b>City population in 2025</b>	503222	<b>Households in 2025</b>	124252	<b>Slum households in 2025</b>	9586
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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	Dr Bindu S	HoD	0474-2712024	9447864439	hod.civil@tkmce.ac.in
2	Organization	Kerala water authority	Sajeev C	0474-2742993	8547638018	sephckwakollam@gmail.com

**Uploaded Images**

#	Type	Name	Uploaded image(s)
1	Women Self Help Group	meeting	
2	Sewage Treatment Plant/ Water Treatment Plant	Kureepuzha	    
3	Park	Asramom Park	 
4	Park	TK Divakaran park	 
5	Park	Corporation Park	
6	Park	Veliyilkulangara 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	Lake	Shasthamkotta lake	1	7	Yes	30
2	River	Kallada River	1	4	Yes	38
3	Tube Well	Mundakkal TWPH	1	0.384	No	NA
4	Tube Well	Uliyakkovil TWPH	1	0.192	No	NA
5	Tube Well	RMO TPW	1	0.12	No	NA
6	Tube Well	Botco TWPH	1	0.384	No	NA
7	Tube Well	BeachTWPH	1	0.384	No	NA
8	Tube Well	Thirumullavaram TWPH	1	0.192	No	NA
9	Tube Well	Moothakkara TWPH	1	0.12	No	NA
10	Tube Well	Port Pallithottam TWPH	1	0.384	No	NA
11	Tube Well	AKG TWPH	1	0.192	No	NA
12	Tube Well	Koshnattuvila TWPH	1	0.192	No	NA
13	Tube Well	Mulluvila TWPH	1	0.192	No	NA
14	Tube Well	Jayanthi Colony TWPH	1	0.192	No	NA
15	Tube Well	Kandachira TWPH	1	0.192	No	NA
16	Tube Well	Karumpelil	1	0.192	No	NA
17	Tube Well	Koppara TWPH	1	0.48	No	NA
18	Tube Well	Vasoorichira	1	0.192	No	NA
19	Tube Well	Mangadu TWPH	1	0.48	No	NA
20	Tube Well	Rayara Mukku TWPH	1	0.192	No	NA
21	Tube Well	Koickal	1	0.192	No	NA
22	Tube Well	Karamoola	1	0.192	No	NA
23	Tube Well	Manichithodu TWPH	1	0.48	No	NA
24	Tube Well	KP Nagar TWPH	1	0.192	No	NA
25	Tube Well	Kochu Decent mukku	1	0.144	No	NA
26	Tube Well	Punthalathazham TWPH	1	0.192	No	NA
27	Tube Well	Eravipuram Church TWPH	1	0.192	No	NA
28	Tube Well	Valathungal TWPH	1	0.192	No	NA
29	Tube Well	Mangalathu Colony TWPH	1	0.192	No	NA
30	Tube Well	Ambedkar Colony TWPH	1	0.192	No	NA
31	Tube Well	Panchayath vila TWPH	1	0.192	No	NA
32	Tube Well	Karicode TWPH	1	0.192	No	NA
33	Tube Well	Valiyamadam TWPH	1	0.192	No	NA
34	Tube Well	Elavanthikkulam TWPH	1	0.192	No	NA
35	Tube Well	Thattamala TWPH	1	0.192	No	NA
36	Tube Well	Manalil TWPH	1	0.384	No	NA
37	Tube Well	Vallikkeezhu TWPH	1	0.36	No	NA
38	Tube Well	Mulankadakam TWPH	1	0.48	No	NA
39	Tube Well	Ayurveda TWPH	1	0.192	No	NA
40	Tube Well	Mathilil TWPH	1	0.384	No	NA
41	Tube Well	Ottakkal TWPH	1	0.192	No	NA

#	Type	Name / Location	No. of water tapping points	Quantity of water tapped in MLD	Location outside	Distance in km.
42	Tube Well	Parapath TWPH	1	0.384	No	NA
43	Tube Well	Neeravil TWPH	1	0.432	No	NA
44	Tube Well	Kuppana TWPH	1	0.264	No	NA
45	Tube Well	Panamoodu TWPH	1	0.384	No	NA
46	Tube Well	Veettuvila Jayanthi TWPH	1	0.432	No	NA
47	Tube Well	Murunthal TWPH	1	0.288	No	NA
48	Tube Well	Kureepuzha TWPH	1	0.024	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	Shasthamkotta designed capacity 37 MLD	7	7	Shasthamkotta lake	Other(Nil)
2	Panamkuttimala 73 MLD designed capacity	4	4	Kallada River	SCADA

### Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	52437	52553	18.03
2	Commercial Establishments	3173	NA	2.23
3	Industries	77	NA	0.13
4	Institutional Establishments	216	NA	0.14
5	Slums	0	0	0

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

Piped water supply in MLD	18.03	Water supply directly through tankers in MLD	0.06	Water supply through tubewell & borewell in MLD	11.98
Treated water supply in MLD	0	Total water supply in MLD	30.07	Average per capita water supply in LPCD	84.712

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




Residential/ Households including slums	74.56	Commercial establishments	2.23	Industries	.35
Institutional establishments	0.37	Slums	0	Total	77.51
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	32
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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	Ashtamudi Lake	2093		8.541675 - 76.345533	Bad	No
2	Water Body	Vattakkayal	40.42		8.553933 - 76.325713	Bad	No
3	Water Body	kattakka kayal	14.38		8.552299 - 76.323967	Bad	No

## Used Water

### Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	24.056	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	STP Kureepuzha Construction ongoing	12	0	0	Others(Gardening)	0	No	NA

## 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	30.07	Water demand	77.51	Gap in water supply	47.44
Water treatment capacity	11	Water to be treated	77.51	Gap in water treatment	66.51
Households with tap connections in slums	0	Total slum households	9586	Gap in household tap connections	9586
Households covered with Tap connections (City)	52553	Total households including slums	124252	Gap in households tap connections including slums	71699
<b>Used Water</b>					
Used water being treated	0	Used water generation	59.648	Gap in used water treatment	59.648
Used water being recycled	0	Used water to be recycled (20%)	11.93	Gap in used water recycling	11.93
Sewer connections provided (including coverage with septage management)	0	Total households	124252	Gap in household sewer connections/ coverage with septage management	124252