

# CITY WATER BALANCE PLAN

## Basic Details

### ULB Information



City  
**TIRURANGADI**



District  
**MALAPPURAM**



State  
**KERALA**



Existing AMRUT City  
**No**

	Name	Designation	Landline No.	Mobile No.	E-mail ID
<b>Nodal Officer</b>	Bhagirathi C S	Assistant Engineer	04942460048	9846353971	aetirurangadi@gmail.com
<b>Mayor.Pre</b>	K P Muhammedkutty	NA	04942460339	9562070707	tirurangadiurban@gmail.com
<b>Municipal.C/C.Ofc</b>	Ismail C	NA	04942460339	8848270980	tirurangadiurban@gmail.com
<b>Head,W.S/S.De</b>	Abdul Nasar N K	NA	04942460012	8547638397	aekwatirurangadi@gmail.com
<b>HOD/P.H.de</b>	Sunil Raymond	NA	04942460339	9446252061	tirurangadiurban@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	Abdul Nasar N K	Assistant Engineer	04942460012	8547638397	aekwatirurangadi@gmail.com

### City profile as per FY 2020-21

<b>City population(Census 2011)</b>	56632	<b>Households (Census 2011)</b>	13983	<b>City area (sq. km.)</b>	17.73
<b>Wards in city</b>	39	<b>Slum settlements (No.)</b>	0	<b>Industries (No.)</b>	0
<b>Industrial clusters</b>	0	<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>	67958	<b>Households in 2021(no.)</b>	16780
<b>Population density</b>	3833	<b>Slum population in 2021</b>	0	<b>Slum households 2021</b>	0




### Future Projection

<b>City population in 2025</b>	73395	<b>Households in 2025</b>	18122	<b>Slum households in 2025</b>	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	Abdul Nasar N K	04942460012	8547638397	aekwatirurangadi@gmail.com

**Uploaded Images**

#	Type	Name	Uploaded image(s)
1	Water Body	Kadalundi River	
2	Women Self Help Group	Kudumbasree	
3	Sewage Treatment Plant/ Water Treatment Plant	Kariparamb WTP	

## 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	Kadalundi Puzha	2	3	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	Kariparamb	3	3	Kadalundi Puzha	Other(Sand filter )

### Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	3150	3337	1.914
2	Slums	0	0	0
3	Commercial Establishments	177	NA	0.177
4	Institutional Establishments	10	NA	0.020

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

Piped water supply in MLD	1.914	Water supply directly through tankers in MLD	0.3	Water supply through tubewell & borewell in MLD	0.1
Treated water supply in MLD	0	Total water supply in MLD	2.314	Average per capita water supply in LPCD	141.622

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


Residential/ Households including slums	11.009	Commercial establishments	0.221	Industries	0.250
Institutional establishments	0.025	Slums	0	Total	11.505
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	Water Body	Kadalundi Puzha	0.5			Good	No
2	Community Well	Tirurangadi Town	.009			Good	No
3	Water Body	Pulinhilath Paadam	0.008			Good	No
4	Water Body	Pookkulangara kulam	.036			Good	No
5	Water Body	Mundeppadam Kulam	.017			Good	No
6	Water Body	panchayath kulam	.018			Good	No
7	Water Body	Podhukulam at ward 29	.015			Good	No
8	Water Body	Podhukulam at ward 7	.015			Good	No
9	Water Body	Bavuttichira kulam	.875			Good	No
10	Water Body	Samoosa kulam	.080			Good	No
11	Water Body	Venchali thodu	.014			Good	No
12	Water Body	Kakkadpaadam Thodu	.025			Good	No
13	Water Body	Pulinhilath paadam thodu	.225			Good	No
14	Water Body	mailithodu	.045			Good	No
15	Water Body	Parappodu thodu	.112			Bad	No
16	Water Body	Mannarakkathazham thodu	.012			Bad	No
17	Water Body	Vadakke mamburam cherathakkulam thodu	.009			Good	No
18	Water Body	Maranakkuzhi konchalappuram thodu	.001			Good	No
19	Water Body	Kurukkal thodu	.975			Good	No
20	Water Body	Vadakke mamburam theekulam thodu	.045			Good	No
21	Water Body	Cherayi thodu	.006			Good	No
22	Water Body	Chunangathodu	.001			Good	No
23	Water Body	Pathayakundu Thodu	.015			Good	No
24	Water Body	Chaladu thodu	.025			Good	No
25	Water Body	Chalisserithazham Road	.012			Good	No
26	Water Body	Hariyali thodu	.006			Good	No
27	Water Body	Mncharakkal Thodu	.00009			Good	No
28	Water Body	Aaran thodu	.00003			Good	No
29	Water Body	Kolakkadamthazham thodu	.00008			Good	No
30	Water Body	Pangottumpaadam thodu	.00007			Good	No
31	Water Body	Pookkulangara thodu	.00588			Good	No
32	Water Body	Mukkath thodu	.00001			Good	No
33	Water Body	Karani thodu	.00001			Good	No

#	Type	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
34	Water Body	Mundeppadam punchappadam thodu	.00112			Good	No
35	Water Body	Narikkuzhi thodu	.00018			Good	No
36	Water Body	Villattichira thodu	.00001			Good	No

## Used Water

### Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	1.851	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)	
<b>Water Supply</b>					
Water supplied to households	2.314	Water demand	11.505	Gap in water supply	9.191
Water treatment capacity	3	Water to be treated	11.505	Gap in water treatment	8.505
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	3337	Total households including slums	18122	Gap in households tap connections including slums	14785
<b>Used Water</b>					
Used water being treated	0	Used water generation	8.807	Gap in used water treatment	8.807
Used water being recycled	0	Used water to be recycled (20%)	1.761	Gap in used water recycling	1.761
Sewer connections provided (including coverage with septage management)	0	Total households	18122	Gap in household sewer connections/ coverage with septage management	18122