

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
ETTUMANOOR



District
KOTTAYAM



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Bony S	Municipal Engineer	4812535565	9074250665	aeetmrgp@gmail.com
Mayor.Pre	Lovely George	NA	4812535565	9400130971	etmrmunicipality@gmail.com
Municipal.C/C.Ofc	Kavitha s Kumar	NA	4812535565	9656801980	kavithaskumar6@gmail.com
Head,W.S/S.De	S VENKATESAPATHY IAS	NA		9447798383	mdunitkwa@gmail.com
HOD/P.H.de	Dr Ajith R	NA		9496465762	kmchetr@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	Mohammed Arafath	Assistant Engineer		8547638561	kwaphmcgandhinagar@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	51129	Households (Census 2011)	12624	City area (sq. km.)	28
Wards in city	35	Slum settlements (No.)	0	Industries (No.)	0
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	61355	Households in 2021(no.)	15149
Population density	2191	Slum population in 2021	0	Slum households 2021	0


Future Projection

City population in 2025	66263	Households in 2025	16361	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	Kerala Water Authority Gandhinagar Kottayam	Mohammed Arafath		8547638551	kwaphmcgandhinagar@gmail.com

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Water Body	Peechathi kulam	

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	Meenachilar	1	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	Gandhi Nagar WTP	3	3	Meenachilar	Other(Rapid sand filter)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	1583	1677	2.1
2	Commercial Establishments	45	NA	0.08
3	Industries	4	NA	0.04
4	Institutional Establishments	45	NA	0.08
5	Slums	0		0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	2.1	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	2.1	Average per capita water supply in LPCD	309.194

Estimated Future Water Demand in 2025 (in MLD)




Residential/ Households including slums	15	Commercial establishments	1	Industries	1
Institutional establishments	1	Slums	0	Total	18
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	8
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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	Vallikad Community Well	0.01		9.679265 - 76.567650	Good	No
2	Water Body	Chalapadi PatrathpadiRiver	1.1		9.682770 - 76.572363	Good	No
3	Water Body	Elavapadam	0.05		9.686149 - 76.578977	Good	No
4	Water Body	Puvapuzha Vallikad Canal	0.5		9.686333 - 76.566937	Good	No
5	Water Body	Nadakal River	0.5		9.686303 - 76.559840	Good	No
6	Water Body	Pulimood Junction Canal	0.5			Good	No
7	Community Well	Clamattom Kurishumala	0.01		9.688669 - 76.571633	Good	No
8	Water Body	Nedumaply River	0.50			Good	No
9	Community Well	Jawahar Colony Well 1	0.01			Good	No
10	Community Well	Jawahar Colony Well 2	0.01			Good	No
11	Community Well	Jawahar Colony Well 3	0.01			Good	No
12	Community Well	Clamattom	0.01			Bad	No
13	Water Body	Company Kadavu	0.2			Good	No
14	Water Body	Pallikunnu water Body	0.100			Good	No
15	Water Body	Kakkayam Canal	2			Good	No
16	Water Body	Vettimukal Pond	0.02			Good	No
17	Water Body	Muttathupadma canal	0.05			Good	No
18	Water Body	Ambalam Vadakkenada Canal	0.05			Good	No
19	Water Body	Mangalakalingu canal	0.05			Bad	No
20	Water Body	Thirukerala puram Temple Pond	0.04			Good	No
21	Community Well	Ambalam Colony well 1	0.01			Good	No
22	Community Well	Ambalam Colony well 2	0.01			Good	No
23	Community Well	Anganwadi well ward 19	0.01			Good	No
24	Water Body	Thellakom PUNCHAPADAM Water body	1.4			Good	No
25	Water Body	Thellakom Padashekaram Canal	0.05			Good	No
26	Community Well	Kariyattapuzha Well 1	0.01			Good	No
27	Community Well	Kariyattapuzha Well 2	0.01			Good	No
28	Community Well	Kariyattapuzha Well 3	0.01			Good	No
29	Community Well	Boys school well	0.01			Good	No

#	Type	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
30	Water Body	Maraveli Water body	0.05			Good	No
31	Community Well	Ward 11 1	0.01			Good	No
32	Community Well	Ward 11 2	0.01			Good	No
33	Community Well	Ward 11 3	0.01			Good	No
34	Water Body	Ward 11 4	0.01			Good	No
35	Water Body	Ward 11 4	0.01			Good	No
36	Water Body	Public Pond at ward 12	0.04			Good	No
37	Community Well	Well at ward 12	0.01			Good	No
38	Water Body	Canal at ward 12	0.05			Good	No
39	Water Body	Puchinapally Pond	0.02			Good	No
40	Water Body	Pindipuzha pond	0.01			Good	No
41	Community Well	Kattachira Pathi well	0.01			Good	No
42	Water Body	Kattachira canal	0.05			Good	No
43	Community Well	Kinattimoodu well	0.01			Good	No
44	Water Body	Kuthiyathodu canal	0.1			Good	No
45	Community Well	Ward 14 well 1	0.01			Good	No
46	Community Well	Ward 14 well 2	0.01			Good	No
47	Community Well	Ward 14 well 3	0.01			Good	No
48	Water Body	Cheruvandoor Chalupally water body	0.2			Good	No
49	Water Body	Cheruvandoor Canal	0.1			Good	No
50	Water Body	Mayiladum Parakulam	0.3			Good	No
51	Community Well	Ward 1 well	0.01			Good	No
52	Community Well	Pala road well	0.01			Good	No
53	Community Well	Kallukirumthadam Well 1	0.01		9.672224 - 76.574618	Good	No
54	Community Well	Kallukirumthadam Well 2	0.1		9.674159 - 76.575951	Good	No
55	Community Well	Mahatma colony 1	0.01			Good	No
56	Community Well	Jawahar colony 1	0.01			Good	No
57	Water Body	Uttakuzhi Pond	0.04			Good	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	1.68	Sewage treated through STP in MLD	0

Household not connected to sewer network					
No. of households covered	15149	Sewage generated in MLD	2.24	Sewage treated through STP in MLD	0

Septage Coverage

No. of households covered	0	Sewage generated in MLD	2.24	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	2.1	Water demand	18	Gap in water supply	15.9
Water treatment capacity	3	Water to be treated	18	Gap in water treatment	15
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	1677	Total households including slums	16361	Gap in households tap connections including slums	14684
Used Water					
Used water being treated	0	Used water generation	12	Gap in used water treatment	12
Used water being recycled	0	Used water to be recycled (20%)	2.4	Gap in used water recycling	2.4
Sewer connections provided (including coverage with septage management)	0	Total households	16361	Gap in household sewer connections/ coverage with septage management	16361