

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
CHANGANASSERY (M)



District
KOTTAYAM



State
KERALA



Existing AMRUT City
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Dileepkumar	Assistant Engineer		8921516141	dileepkannankara1982@gmail.com
Mayor.Pre	SandhyaManoj	NA		9061786161	secretarychsry@gmail.com
Municipal.C/C.Ofc	Anilkumar B	NA	0481-2420044	9446337863	secretarychsry@gmail.com
Head,W.S/S.De	S VENKATESAPATH Y IAS	NA		9447798383	mdunitkwa@gmail.com
HOD/P.H.de	Dr Ajithkumar	NA	0481-2402349	9496887427	thqchry@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	Abraham Varghese	Assistant Executive Engineer		8547638244	aekwachry@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	56049	Households (Census 2011)	13839	City area (sq. km.)	13.5
Wards in city	37	Slum settlements (No.)	0	Industries (No.)	7
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	67259	Households in 2021(no.)	16607
Population density	4982	Slum population in 2021	0	Slum households 2021	0







Future Projection

City population in 2025	72640	Households in 2025	17936	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	Organization	Kerala water Authority	Abraham Varghese		8547638244	aekwachry@gmail.com

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Water Body	muthalavachra	
2	Water Body	Thamarakkulam kandathilparambu	  
3	Women Self Help Group	Women Self Help Group Ward 18	
4	Women Self Help Group	Women Self Help Group Ward 12	

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	Pampa River	1	5	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	Kallisery Thiruvalla WTP	5	5	Pampa River	Other(Flow meter)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	6080	6579	2.5
2	Commercial Establishments	399	NA	1.5
3	Industries	0	NA	0
4	Institutional Establishments	100	NA	1
5	Slums	0	0	0

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	2.5	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	2.5	Average per capita water supply in LPCD	93.826

Estimated Future Water Demand in 2025 (in MLD)






Residential/ Households including slums	8	Commercial establishments	1.5	Industries	1.5
Institutional establishments	1	Slums	1	Total	12
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	12
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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	IRUPPATHODU	1.54			Bad	No
2	Water Body	AC CANAL	0.69			Bad	No
3	Water Body	BOAT JETTY CANAL	0.38			Bad	No
4	Water Body	WATER BODY THROUGH WESTERN BOUNDARY	9.3			Bad	No
5	Community Well	Community Well Ward 31	0			Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	0	Sewage generated in MLD	2	Sewage treated through STP in MLD	0

Household not connected to sewer network					
No. of households covered	16607	Sewage generated in MLD	2	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	2.5	Water demand	12	Gap in water supply	9.5
Water treatment capacity	5	Water to be treated	12	Gap in water treatment	7
Households with tap connections in slums	0	Total slum households	0	Gap in household tap connections	0
Households covered with Tap connections (City)	6579	Total households including slums	17936	Gap in households tap connections including slums	11357
Used Water					
Used water being treated	0	Used water generation	6.4	Gap in used water treatment	6.4
Used water being recycled	0	Used water to be recycled (20%)	1.28	Gap in used water recycling	1.28
Sewer connections provided (including coverage with septage management)	0	Total households	17936	Gap in household sewer connections/ coverage with septage management	17936