

CITY WATER BALANCE PLAN

Basic Details

ULB Information



City
ALAPPUZHA (M)



District
ALAPPUZHA



State
KERALA



Existing AMRUT City
Yes

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Ashitha	Assistant Engineer	04772251792	9496465210	mealappuzha61@gmail.com
Mayor.Pre	Soumya Raj	NA	04772251792	9745202363	chairpersonalappuzha@gmail.com
Municipal.C/C.Ofc	Neethulal B	NA	04772251792	9746527234	secretaryalappuzha@gmail.com
Head,W.S/S.De	S Venkatesapathy IAS	NA	04712322797	9447798383	mdunitkwa@gmail.com
HOD/P.H.de	Venugopal	NA	04772253324	9447162224	ghalappuzha@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	Jayaraj S L	Executive Engineer	8547638100	8547638100	kwapdaalp@gmail.com

City profile as per FY 2021-22

City population(Census 2011)	180856	Households (Census 2011)	44656	City area (sq. km.)	46.77
Wards in city	52	Slum settlements (No.)	12	Industries (No.)	127
Industrial clusters	0	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	217027	Households in 2021(no.)	53587
Population density	4640	Slum population in 2021	6868	Slum households 2021	1696






Future Projection

City population in 2025	234389	Households in 2025	57874	Slum households in 2025	1832
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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	CANALPY	Rohit Joseph	9447503020	9447503020	roit91@gmail.com
2	Organization	Kerala Water Authority	Jayaraj S L	8547638100	8547638100	kwapdaalp@gmail.com

Uploaded Images

#	Type	Name	Uploaded image(s)
1	Park	Valiyachudukadu Park	
2	Sewage Treatment Plant/ Water Treatment Plant	Chathanadu Colony STP	
3	Water Body	Commercial Canal	
4	Water Body	Rani Thodu	
5	Water Body	Vembanadu lake	
6	Women Self Help Group	Kudumbashree	

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	2	20	Yes	32
2	Tube Well	Alappuzha	12	6	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	62 MLD WTP at Karumadi	20	20	Pampa River	Other(Ultrasonic flow meter)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	35519	35519	21.58
2	Commercial Establishments	2347	NA	2
3	Industries	127	NA	.9
4	Institutional Establishments	350	NA	.7
5	Slums	600	600	0.24

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	21.58	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	21.58	Average per capita water supply in LPCD	150.015

Estimated Future Water Demand in 2025 (in MLD)




Residential/ Households including slums	35.16	Commercial establishments	2.93	Industries	3.175
Institutional establishments	0.875	Slums	0.74	Total	42.13999999999999
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	Not implemented	No. of water tanks at religious places in your city	33
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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	Vembanadu Lake	1.039			Bad	No
2	Water Body	Kottaramthodu	0.012			Bad	No
3	Water Body	Commercial canal	.099			Bad	No
4	Water Body	Other canal	.212			Bad	No
5	Water Body	Various Ponds	0.199			Bad	No
6	Water Body	Muthalapozhi	0.013			Bad	No
7	Water Body	Rani canal	.001			Bad	Yes
8	Water Body	Vadakkal Pozhi	.024			Bad	Yes
9	Water Body	Thumpoly Pozhi	0.024			Bad	No
10	Water Body	Ayyappan Pozhi	0.002			Bad	No
11	Water Body	AC canal	0.039			Bad	No
12	Water Body	Vadakanal	.086			Good	Yes
13	Water Body	Eastern Link Canal	0.04			Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network					
No. of households covered	52	Sewage generated in MLD	17.264	Sewage treated through STP in MLD	0.015

Household not connected to sewer network					
No. of households covered	57822	Sewage generated in MLD	2.8	Sewage treated through STP in MLD	0.015

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	Chathanadu Colony	0.015	0.015	0.01	Others(Treated water connected to Storm water Drainage)		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)	
Water Supply					
Water supplied to households	21.58	Water demand	42.14	Gap in water supply	20.56
Water treatment capacity	20	Water to be treated	42.14	Gap in water treatment	22.14
Households with tap connections in slums	600	Total slum households	1832	Gap in household tap connections	1232
Households covered with Tap connections (City)	35519	Total households including slums	57874	Gap in households tap connections including slums	22355
Used Water					
Used water being treated	0.015	Used water generation	28.128	Gap in used water treatment	28.113
Used water being recycled	0.01	Used water to be recycled (20%)	5.626	Gap in used water recycling	5.616
Sewer connections provided (including coverage with septage management)	52	Total households	57874	Gap in household sewer connections/ coverage with septage management	57822