## **CITY WATER BALANCE PLAN**

# **Basic Details**

## **ULB Information**





500

State KERALA Existing AMRUT City

Yes

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Ms Smitha P J	Executive Engineer	4842369011	8606019999	tenderce@gmail.co m
Mayor.Pre	M AnilKumar	NA	4842369007	9846118975	cochinmayor@gmail .com
Municipal.C/C.Ofc	A S NAISAM	NA	4842369007	9446483404	kochicorpsecretary @gmail.com
Head,W.S/S.De	Jochan Joseph	NA	4842364685	9656937923	projectdivisionkochi @gmail.com
HOD/P.H.de	Wilson C J	NA	04842369007	9446476775	kmchealthwing@gm ail.com

### **Parastatal Agency** Any parastatal agency engaged? : Yes No. Of Parastatal Agency : 1

4	#	Organization name	Nodal officer name	Designation	Landline no.	Mobile no.	E-mail ID
1	1	Kerala Water Authority	Jochan Joseph	Superintending Engineer	4842364685	9656937923	projectdivisionkochi@gmail.com

### City profile as per FY 2020-21

City population(Census 2011)	602046	Households (Census 2011)	148653	City area (sq. km.)	94.88
Wards in city	74	Slum settlements (No.)	101	Industries (No.)	2900
Industrial clusters	00	Population survey conducted in the last five years ?	No	Survey year	NA
Survey city population	NA	City population in 2021	722455	Households in 2021(no.)	178384
Population density	7614	Slum population in 2021	72587	Slum households 2021	17923

### **Future Projection**

2025 2025 11 2025	City population in 2025	780251	Households in 2025	192655	Slum households in 2025	19357	
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En	Engineering College/ Organization/ Experts Working in Water Sector in the ULB								
#	Туре	Entity name	Nodal officer name	Landline no.	Mobile no.	E-mail ID			
1	Engineering College	Cochin University of Science and Technology	Dr K S Beena	4842556187	4842550952	beenavg@gmail.com			
2	Engineering College	SCMS Water Institute	Sunny Joseph	4842439033	7034780079	swi@scmsgroup.org			
3	Engineering College	Mar Athanasius College	Dr Elson	4852822512	9656283263	ma@macollege.in			

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# **Uploaded Images**

#	Туре	Name	Uploaded image(s)
1	Sewage Treatment Plant/ Water Treatment Plant	Water treatment plant Maradu and Aluva and Elamkulam STP	
2	Women Self Help Group	NHG	
3	Park	Jawahar Nagar Park and St Johns park	
4	Water Body	Thevara Perandoor Canal	

# Water Supply

#### **Major Water Sources Details**

#	Туре	Name / Location	No. of water tapping points	Quantity of water tapped in MLD	Location outside	Distance in km.
1	River	Periyar River Aluva	3	158	Yes	20
2	River	Muvattupuzha RiverPazhoor	1	42	Yes	30

#### Water Treatment Plants (WTP)

#	Location of WTP	Designed capacity in MLD	Operational capacity in MLD	Water supply source	Technology used for automatic monitoring
1	Aluva	158	158	Periyar River Aluva	Other(Mechanical)
2	Maradu	42	42	Muvattupuzha RiverPazhoor	Other(Mechanical)

#### **Water Connections**

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	137617	137617	100
2	Commercial Establishments	27969	NA	26
3	Industries	278	NA	4
4	Slums	0		0

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

Piped water supply in MLD	100	Water supply directly through tankers in MLD	2.60	Water supply through tubewell & borewell in MLD	00
Treated water supply in MLD	0	Total water supply in MLD	102.6	Average per capita water supply in LPCD	179.421
Is your city using water flow meter?	Yes	Water flow meter is measuring		Volume	

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

Residential/ Households including slums	173	Commercial establishments	25	Industries	20
Institutional establishments 20		Slums	10.88	Total	238
Are you going to met the 100% future demand through subsurface water source?		Yes	How much future deman through subsurface wate		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	40
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# Water Source Quality Assessment

#	Туре	Name	Area	Photograph	Site latitude & longitude	Water quality assessment	Has the source rejuvenated
1	Water Body	Thevara Perandoor Canal	0.178		9.944402 - 76.2941	Bad	No
2	Water Body	Pashnithodu	0.05		9.913582 - 76.285079	Bad	No
3	Water Body	Karanakodam	0.028	T.	9.984829 - 76.302285	Bad	No

# **Used Water**

Household c	onnect	ed to sewe	r network								
No. of households 1718 covered			Sewage generated MLD	in	82.08		Sewage treated through STP in MLD		3.25	3.25	
Household n	ot con	nected to s	sewer netwo	ork							
No. of households covered		00 g		Sewage generated in MLD		00		Sewage treated through STP in MLD		00	
eptage Cov	erage	•									
No. of households	87600	87600 Sewago MLD				Sludge treated through FSSM in KLD	200		Grey water recycled in MLD		00
covered											
	tmen	t Plants	(STP)								
covered ewage Trea # Location of S	TP De	i <b>t Plants</b> signed pacity in MLD	Operationa		ed capacity D	Reuse purpose		enue from sed water	Automatic monitoring	?	Technology used

# **City Water Balance Plan Summary**

Current Infrastruct FY21-22 (A)	ture assets/supply	Projected consumption FY25-26 (B)	on/demand	Estimated gap FY25-26 (C)= (B)-(A)					
Water Supply									
Water supplied to households	upplied to ouseholds102.6Water demandVater reatment apacity200Water to be treated'ap onnections rovided in lums0Total slum householdsIouseholds overed with 'ap onnections137617Total households 		Water demand 238		135.4				
Water treatment capacity			238	Gap in water treatment	38				
Tap connections provided in slums			19357	Gap in household tap connections	19357				
Households covered with Tap connections (City)			192655	Gap in households tap connections including slums	55038				
Used Water									
Used water being treated	3 75		138.4	Gap in used water treatment	135.15				
Used water being recycled	ng 0 be recy		27.68	Gap in used water recycling	27.68				
Sewer connections provided (including coverage with septage management)	89318	Total households	192655	Gap in household sewer connections/ coverage with septage management	103337				