

# CITY WATER BALANCE PLAN

## Basic Details

### ULB Information



City  
PALAI (M)



District  
KOTTAYAM



State  
KERALA



Existing AMRUT City  
No

	Name	Designation	Landline No.	Mobile No.	E-mail ID
<b>Nodal Officer</b>	Sam Mathew Sabu	Assistant Engineer	04822212328	9745911696	aeelsgdpalamty@gmail.com
<b>Mayor.Pre</b>	Anto Jose Padinjarekkara	NA		9446049795	antopala2222@gmail.com
<b>Municipal.C/C.Ofc</b>	Juhee Maria Tom	NA	04822212328		munsecpala12@gmail.com
<b>Head,W.S/S.De</b>	S VENKATESAPATHY IAS	NA		9447798383	mdunitkwa@gmail.com
<b>HOD/P.H.de</b>	Satheeshkumar G	NA	04822212328	9495747557	

### 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	KWA	DEEPAK JOHNSON	AE		8547638553	kwapala@gmail.com

### City profile as per FY 2020-21

City population(Census 2011)	22056	Households (Census 2011)	5446	City area (sq. km.)	16.70
Wards in city	26	Slum settlements (No.)	2	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	26467	Households in 2021(no.)	6535
Population density	1585	Slum population in 2021	510	Slum households 2021	126



### Future Projection

City population in 2025	28584	Households in 2025	7058	Slum households in 2025	136
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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	DEEPAK JOHNSON		8547638553	kwapala@gmail.com

**Uploaded Images**

#	Type	Name	Uploaded image(s)
1	Water Body	MEENACHIL RIVER	
2	Park	12TH MILE CHILDRENS PARK	

## 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	MEENACHIL RIVER	2	4	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	MEENACHIL RIVER	4.2	4	MEENACHIL RIVER	Other(man power)

### Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	3335	3335	2.5
2	Commercial Establishments	407	NA	0.5
3	Industries	0	NA	0
4	Institutional Establishments	300	NA	0.5
5	Slums	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	185.093

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




Residential/ Households including slums	6	Commercial establishments	1	Industries	0.25
Institutional establishments	1	Slums	0	Total	8.25
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	Meenachil River	10			Bad	No
2	Community Well	PARUMALAKUNNU	0.007		1 - 1	Bad	No
3	Water Body	PADINJAREMURY POND	0.05		1 - 1	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	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	2.5	Water demand	8.25	Gap in water supply	5.75
Water treatment capacity	4.2	Water to be treated	8.25	Gap in water treatment	4.05
Households with tap connections in slums	0	Total slum households	136	Gap in household tap connections	136
Households covered with Tap connections (City)	3335	Total households including slums	7058	Gap in households tap connections including slums	3723
<b>Used Water</b>					
Used water being treated	0	Used water generation	4.8	Gap in used water treatment	4.8
Used water being recycled	0	Used water to be recycled (20%)	0.96	Gap in used water recycling	0.96
Sewer connections provided (including coverage with septage management)	0	Total households	7058	Gap in household sewer connections/ coverage with septage management	7058