CITY WATER BALANCE PLAN

Basic Details

ULB Information









Existing AMRUT City

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THIRU	VANAN	JTHAPUF	RAMERALA

	Name	Designation	Landline No.	Mobile No.	E-mail ID
Nodal Officer	Manmadan	Municipal Engineer		7907828009	melsgdvarkala@gm ail.com
Mayor.Pre	K M Laji	NA		9446971311	secyvarkala1@gma il.com
Municipal.C/C.Ofc	L S Saji	NA		9495461608	secyvarkala1@gma il.com
Head,W.S/S.De	Jayakumari P	NA		9446272048	aevarkala1@gmail. com
HOD/P.H.de	Biju nelson	NA		9846111765	thqvarkala@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	Water authority	Deepthi S chandran	Assistant Executive engineer		9446272059	aevarkala1@gmail.com

City profile as per FY 2020-21

City population(Census 2011)	40048	Households (Census 2011)	9888	City area (sq. km.)	15
Wards in city	33	Slum settlements (No.)	15	Industries (No.)	259
Industrial clusters	Popu surve condithe la years		No	Survey year	NA
Survey city population	NA	City population in 2021	48058	Households in 2021(no.)	11866
Population density 3204 po		Slum population in 2021	4387	Slum households 2021	1083

Future Projection

51	51903	Households in 2025	12816	Slum households in 2025	1170
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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	Organization	Kerala water Authority	Jayakumari P		9446272048	aevarkala1@gmail.com
2	Organization	minor irrigation	Asst Engineer	4712464814	4712464814	ssptvnorth.keralapost@gmail.com

Uploaded Images

#	Туре	Name	Uploaded image(s)
1	Water Body	karunnilacode pond	75.

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	Vamanapuram river	1	4.4	Yes	16
2	Well	differt places in varkala municipality	300	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	Mullasseri 19 MLD	7	7	Vamanapuram river	Other(Manual)

Water Connections

#	Water connections type	No. of tap connections provided	No. of households	Water supplied in MLD
1	Residential / Households	6833	7762	4.5
2	Commercial Establishments	719	NA	1
3	Industries	10	NA	.20
4	Slums	35	35	.1
5	Institutional Establishments	200	NA	0.5

Present Water Supply to Residential/Households incl. Slums

Piped water supply in MLD	4.5	Water supply directly through tankers in MLD	.1	Water supply through tubewell & borewell in MLD	.6
Treated water supply in MLD	0	Total water supply in MLD	5.199999999999999	Average per capita water supply in LPCD	143.148

Estimated Future Water Demand in 2025 (in MLD)

Residential/ Households including slums	9	Commercial establishments	2	Industries	1
Institutional establishments	1	Slums	1	Total	13
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?	Status	Implemented	No. of water tanks at religious places in your city	50
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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	perumkulam	1			Bad	Yes
2	Water Body	karunnilakkode	.50	75 m		Bad	No

Used Water

Sewerage Coverage

Household connected to sewer network							
No. of households covered	0	Sewage generated in MLD	4.16	Sewage treated through STP in MLD	2.5		

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		Sewage		Sludge treated		Grey water	
households	0	generated in	2.1	through FSSM	0	recycled in MLD	0
covered		MLD		in KLD			

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
Γ	No data available in table								

City Water Balance Plan Summary

Current Infrastructu FY21-22 (A)	re assets/supply	Projected consumption (B)	demand FY25-26	Estimated gap FY25-26 (C)= (B)-(A)					
Water Supply									
Water supplied 5.1999999999 to households 99999		Water demand	13	Gap in water supply	7.8				
Water treatment capacity	treatment capacity Households with tap connections in slums Households covered with Tap connections 7 Water to be treated Total slum households Total households including slums		13	Gap in water treatment	6				
Households with tap connections in slums			1170	Gap in household tap connections	1135				
Households covered with Tap connections (City)			12816	Gap in households tap connections including slums	5054				
		Used Wa	ater						
Used water 2.5 being treated		Used water generation	7.2	Gap in used water treatment	4.7				
Used water being recycled			1.44	Gap in used water recycling	1.44				
Sewer connections provided (including coverage with septage management)	0	Total households	12816	Gap in household sewer connections/ coverage with septage management	12816				