

Analysis Result of Drains Joining to Mannar-Thakazhi Stretch of Pamba River (July-2026)

SL.N o	Name of Drain	Parameters														
		pH			Electrical Conductivity(μS/cm)			BOD(mg/l)			TC(Nos/100ml)			FC		
	Months	MAY	JUNE	JULY	MAY	JUNE	JULY	MAY	JUNE	JULY	MAY	JUNE	JULY	MAY	JUNE	JULY
1	Parumala Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
2	MannarTown Drain	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
3	Kuriyathkadavu Thodu	NIL	7.16	NIL	NIL	990.1	NIL	NIL	1.67	NIL	NIL	1500	NIL	NIL	900	NIL
4	KaruvelilThodu	7.26	7.39	6.33	112.8	110.3	93.62	0.1	1.2	1.7	1800	900	800	1000	600	700
5	Nochithodu	7.21	7.41	6.14	39.44	106.9	91.71	1.1	1	0.2	800	1700	1800	200	700	500
6	Pattaparambil Thodu	7.25	7.35	6.21	82.17	91.65	53.62	0.3	1.8	0.67	1600	1000	900	900	800	600
7	Kappiyarissery Thodu	7.01	7.32	6.44	79.67	90.91	81.83	1.8	0.74	0.57	1000	1100	1000	8000	700	800
8	Kombankery Thodu	7.26	7.26	6.23	43.19	115.2	105.1	0.1	2	0.5	1100	300	400	900	100	300
9	Perackalthodu	7.18	7.31	6.37	88.16	115.7	70.78	1.6	0.67	0.93	300	1700	1600	100	900	800
10	Erathodu	7.17	7.38	6.38	102.8	85.17	84.95	1.8	0.8	0.17	1200	1200	1100	1000	500	600
11	Kolarayaru	7.34	7.16	6.34	34.74	153.6	84.13	1.2	1.17	0.6	800	700	800	200	400	500

**ANALYSIS REPORT OF DRAINS OF MANIMALA BETWEEN KALLOOPARA AND
THONDRA
July- 2026**

SI NO	BOTTLE NO.	Name of Drains	PH	BOD	TC	FC
1	TK1	Panayampalathodu	6.27	1.1	2400	1200
2	TK2	PadathupalamThodu	6.32	1	3000	900
3	TK3	Thottappuzha	6.31	0.97	2000	850
4	TK4	Kuttapuzha under Kattodubridge	6.4	0.5	3500	700
5	TK5	Kadavumbara	6.31	0.3	3000	800
6	TK6	Drain under Varappalam Bridge	NIL	NIL	NIL	NIL
7	TK7	Drain under kallupalam Bridge	6.23	0.7	2900	700
8	TK8	Komalamthodu	6.4	0.33	2000	800
9	TK9	Vennikulam Valiyathodu	6.25	1.37	1000	900
10	TK10	Paduthodu	6.31	0.8	2000	800
11	TK11	Mallappally Valiyathodu	6.23	2.4	1100	500

POLLUTED RIVER STRETCH MONITORING PROGRAM (JUNE 2026)

STN Code	PR-1
State	Kerala
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	Tributary
Waterbody Name	Kalpathypuzha
Frequency of Monitoring	Monthly
Sampling Date	13-07-2026
Sampling Time	10:37 AM
Monitoring Location	Kalpathypuzha at Pezhumkara Bridge (Downstream)
Location Details	D/s of town or industrial area
Use of Water in Down Stream	Irrigation, Drinking water source, Others
Human Activities around the Station	Bathing, Washing, Cattle wading, Others
Major Polluting Sources	Municipal Solid Waste, Plastic Waste
Visible Effluent Discharge	Municipal Sewage
Weather	Clear
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes (Water Hyacinth)
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	28
Dissolved O2 (mg/L)	6.4
pH	7.1
Conductivity (µmho/Cm)	373
BOD (mg/L)	6.2
Nitrate - N (mg/L)	1.4
Total Coliform (MPN/100ml)	6000
Fecal Coliform (MPN/100ml)	2000
Fecal Streptococci (MPN/100ml)	800
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	0 (BDL)
Total Alkalinity (mg/L)	122
Chlorides (mg/L)	40
Ammonical N (mg/L)	2.1
Total Hardness (mg/L)	214
Ca as CaCo3 (mg/L)	78
Mg as CaCo3 (mg/L)	136
Sulphate (mg/L)	37
Ca++ (mg/L)	31.26
Mg++ (mg/L)	33.048
Sodium (mg/L)	20
Total Dissolved Solids (mg/L)	210
Total Phosphate (mg/L)	0.14
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Sodium Percentage (%)	16.8
SAR	0.60

POLLUTED RIVER STRETCH MONITORING PROGRAM (JUNE 2026)

STN Code	PR-2
State	Kerala
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	Tributary
Waterbody Name	Kalpathypuzha
Frequency of Monitoring	Monthly
Sampling Date	13-07-2026
Sampling Time	11:56 AM
Monitoring Location	Kalpathypuzha at Mukkai Causeway (Upstream)
Location Details	Pilgrim Center, Bathing Ghat/ Water intake
Use of Water in Down Stream	Irrigation, Drinking water source, Others
Human Activities around the Station	Bathing, Washing, Cattle wading, Others
Major Polluting Sources	Others
Visible Effluent Discharge	None
Weather	Clear
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes(Water Hyacinth,Plastic Waste)
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	28
Dissolved O2 (mg/L)	6.4
pH	7.3
Conductivity (µmho/Cm)	280
BOD (mg/L)	1.3
Nitrate - N (mg/L)	0.8
Total Coliform (MPN/100ml)	60000
Fecal Coliform (MPN/100ml)	1400
Fecal Streptococci (MPN/100ml)	200
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	0 (BDL)
Total Alkalinity (mg/L)	90
Chlorides (mg/L)	35
Ammonical N (mg/L)	2
Total Hardness (mg/L)	106
Ca as CaCo3 (mg/L)	84
Mg as CaCo3 (mg/L)	22
Sulphate (mg/L)	29
Ca++ (mg/L)	33.67
Mg++ (mg/L)	5.346
Sodium (mg/L)	20
Total Dissolved Solids (mg/L)	155
Total Phosphate (mg/L)	0.09
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Sodium Percentage (%)	28.8
SAR	0.84

POLLUTED RIVER STRETCH MONITORING PROGRAM (JUNE 2026)

STN Code	PR-3
State	Kerala
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	Tributary
Waterbody Name	Korayar
Frequency of Monitoring	Monthly
Sampling Date	13-07-2026
Sampling Time	12:52 PM
Monitoring Location	Korayar at Menonpara Bridge (Upstream)
Location Details	D/s of town or industrial area
Use of Water in Down Stream	Irrigation, Drinking water source, Others
Human Activities around the Station	Bathing, Washing, Cattle wading, Others
Major Polluting Sources	Others
Visible Effluent Discharge	None
Weather	Clear
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes(Water Hyacinth,Plastic Waste)
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	30
Dissolved O2 (mg/L)	3.2
pH	7.8
Conductivity (µmho/Cm)	1550
BOD (mg/L)	1.5
Nitrate - N (mg/L)	1.1
Total Coliform (MPN/100ml)	100000
Fecal Coliform (MPN/100ml)	2200
Fecal Streptococci (MPN/100ml)	1600
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	0 (BDL)
Total Alkalinity (mg/L)	488
Chlorides (mg/L)	173
Ammonical N (mg/L)	2.2
Total Hardness (mg/L)	422
Ca as CaCo3 (mg/L)	136
Mg as CaCo3 (mg/L)	286
Sulphate (mg/L)	93
Ca++ (mg/L)	54.51
Mg++ (mg/L)	69.498
Sodium (mg/L)	90
Total Dissolved Solids (mg/L)	851
Total Phosphate (mg/L)	0.09
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Sodium Percentage (%)	31.6
SAR	1.91

POLLUTED RIVER STRETCH MONITORING PROGRAM (JUNE 2026)

STN Code	PR-4
State	Kerala
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	Tributary
Waterbody Name	Korayar
Frequency of Monitoring	Monthly
Sampling Date	13-07-2026
Sampling Time	11:46 AM
Monitoring Location	Korayar at Naragampilly (Downstream)
Location Details	D/s of town or industrial area
Use of Water in Down Stream	Irrigation, Drinking water source, Others
Human Activities around the Station	Bathing, Washing, Cattle wading, Others
Major Polluting Sources	Others
Visible Effluent Discharge	Municipal sewage
Weather	Clear
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes (Water Hyacinth)
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	29
Dissolved O2 (mg/L)	2.7
pH	7.3
Conductivity (µmho/Cm)	485
BOD (mg/L)	0.3
Nitrate - N (mg/L)	1.1
Total Coliform (MPN/100ml)	18400
Fecal Coliform (MPN/100ml)	1400
Fecal Streptococci (MPN/100ml)	640
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	0 (BDL)
Total Alkalinity (mg/L)	148
Chlorides (mg/L)	46
Ammonical N (mg/L)	2.3
Total Hardness (mg/L)	160
Ca as CaCo3 (mg/L)	144
Mg as CaCo3 (mg/L)	16
Sulphate (mg/L)	46.1
Ca++ (mg/L)	57.72
Mg++ (mg/L)	3.89
Sodium (mg/L)	23
Total Dissolved Solids (mg/L)	266
Total Phosphate (mg/L)	0.16
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Sodium Percentage (%)	23.7
SAR	0.79

POLLUTED RIVER STRETCH MONITORING PROGRAM (JULY 2026)	
STN Code	2326
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	TRIBUTARY
Waterbody Name	Korayar
Sampling Date	13-07-2026
Sampling Time	12:04
Monitoring Location	Kanjikode
Location Details	D/S of town or industrial area
Use of Water in Down Stream	Irrigation, Drinking Water Source, Others
Human Activities around the Station	Bathing, Washing, Cattie Wading, Others
Major Polluting Sources	None
Visible Effluent Discharge	None
Weather	Cloudy
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	28
Dissolved O2 (mg/L)	7.6
pH	7
Conductivity (µmho/Cm)	515
BOD (mg/L)	1.7
Nitrate - N (mg/L)	1.4
Total Coliform (MPN/100ml)	40000
Fecal Coliform (MPN/100ml)	1300
Fecal Streptococci (MPN/100ml)	1240
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	Not Analyzed
Total Alkalinity (mg/L)	148
Chlorides (mg/L)	68
COD (mg/L)	10
Total Kjeldahl Nitrogen (mg/L)	1.5 (BDL)
Ammonical N (mg/L)	2
Total Hardness (mg/L)	200
Ca as CaCo3 (mg/L)	156
Mg as CaCo3 (mg/L)	44
Sulphate (mg/L)	75.4
Ca++ (mg/L)	62.52
Mg++ (mg/L)	10.692
Sodium (mg/L)	35
Total Dissolved Solids (mg/L)	272
Total Fixed Solids (mg/L)	120
Total Suspended Solids (mg/L)	10 (BDL)
Total Phosphate (mg/L)	0.12 (BDL)
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Fluoride (mg/L)	0.1 (BDL)
Sodium Percentage (%)	27.4
SAR	1.08
Measured TDS (mg/L)	282
Ion Balance ((Total Cations)-(Total Anions) / (Total Cations)+(Total Anions))	-0.04 (True)
Ion Balance ((Na+,meq/L) / (Cl-,meq/L))	0.8 (True)
EC Balance (TDS,mg/L) / (EC,µmho/cm)	0.55 (True)
Carbon Balance (COD,mg/L) / (BOD,mg/L)	5.88 (True)
CO-3 balance (pH < 8.3)	True
Class	D

POLLUTED RIVER STRETCH MONITORING PROGRAM (JULY 2026)

STN Code	3460
District	Palakkad
Monitoring Agency	Kerala SPCB
Waterbody Type	TRIBUTARY
Waterbody Name	Kalpathy Puzha
Sampling Date	13-07-2026
Sampling Time	10:42
Monitoring Location	Kalpathy
Location Details	PILGRIM CENTER/BATHING GHAT/WATER INTAKE
Use of Water in Down Stream	Irrigation, Bathing Ghat, Drinking Water Source
Human Activities around the Station	Bathing, Washing, Cattie Wading, Others
Major Polluting Sources	Municipal Solid Waste
Visible Effluent Discharge	Municipal sewage
Weather	Clear
Approxdepth (m)	Greater than 100 cm
Floating Matter	Yes
Colour	Clear
Odour	None
Flow (In MLD)	
Temperature (°C)	28
Dissolved O2 (mg/L)	8.4
pH	7.2
Conductivity (µmho/Cm)	415
BOD (mg/L)	4.1
Nitrate - N (mg/L)	0.6
Total Coliform (MPN/100ml)	8800
Fecal Coliform (MPN/100ml)	2000
Fecal Streptococci (MPN/100ml)	140
Turbidity (NTU)	0 (BDL)
Phenolphthalein Alkalinity (mg/L)	Not Analyzed
Total Alkalinity (mg/L)	146
Chlorides (mg/L)	43
COD (mg/L)	20
Total Kjeldahl Nitrogen (mg/L)	1.5 (BDL)
Ammonical N (mg/L)	2.2
Total Hardness (mg/L)	150
Ca as CaCo3 (mg/L)	122
Mg as CaCo3 (mg/L)	28
Sulphate (mg/L)	30.2
Ca++ (mg/L)	48.90
Mg++ (mg/L)	6.804
Sodium (mg/L)	25
Total Dissolved Solids (mg/L)	215
Total Fixed Solids (mg/L)	130
Total Suspended Solids (mg/L)	10 (BDL)
Total Phosphate (mg/L)	0.08 (BDL)
Boron (mg/L)	0 (BDL)
Potassium (mg/L)	1 (BDL)
Fluoride (mg/L)	0.1 (BDL)
Sodium Percentage (%)	26.4
SAR	0.89
Measured TDS (mg/L)	228
Ion Balance ((Total Cations)-(Total Anions) / (Total Cations)+(Total Anions))	-0.02 (True)
Ion Balance ((Na+,meq/L) / (Cl-,meq/L))	0.9 (True)
EC Balance (TDS,mg/L) / (EC,µmho/cm)	0.55 (True)
Carbon Balance (COD,mg/L) / (BOD,mg/L)	4.88 (True)
CO-3 balance (pH < 8.3)	True
Class	D

**ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN TIRUR RIVER –JULY
2026**

SI NO	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC (cfu/100ml)
1	Drain near Tirur Railway station	6.7	4.1	1.3	8.2	20
2	Thazhepalam drain	6.5	4.5	2.1	8.6	60
3	Naduvilangadi drain (old ponnaniithodu)	Dried				
4	Annassery drain	Dried				
5	Canal at CV Land	Dried				
6	Canal at Mangalam thuruth	6.5	4.5	2.6	8.4	20
7	Canal at Pullooni	7.1	4.9	2.4	8.8	60
8	Drain near Mangattiri bridge	Dried				
9	Drain near Ettirikkadavu bridge	6.8	4.5	1.6	8.9	20
10	Epothingal	6.7	4.3	2.4	8.5	80
11	Asarikkadav	Dried				
12	Kandanathkadav	Dried				
13	Pancharamoola	Dried				
14	Kakadav	6.5	3.3	1.2	8.0	40
15	Kanathkadav	6.6	4.2	2.2	9.2	40
16	Drain near tirur railway station	Dried				
17	Payyanangadi (kadayithodu)	Dried				
18	Thalakkadathur	6.5	3.5	1.8	8	100
19	Naduvilangadi	6.8	6.2	2.2	8	60


ASSISTANT SCIENTIST

ANALYSIS REPORT OF POLLUTED STRETCH POINTS IN KADALUNDY RIVER – JULY 2026

Sl.No	Name of point	PARAMETERS				
		pH	DO (mg/l)	BOD (mg/l)	COD (mg/l)	FC (cfu/100 ml)
1	Valiyangadi drain	6.9	6.6	0.7	6.1	20
2	Valiyangadi bypass drain	DRIED				
3	Valiyathod drain	6.6	6.7	1.5	6.8	20
4	Hajiyarpally	6.5	7.3	1.6	4.2	40
5	Tirurangadi	6.7	6.9	2.0	4.6	100



ASSISTANT SCIENTIST

UPPALA AR JULY 2026

STN Code	State	District	River Basin	Monitoring Location	Location Details	Use of Water in Down Stream	Human Activities around the Station	Use Based Class	Major Polluting Sources
2306	Kerala	Kasaragod	Uppala	Uppala Bridge	D/S of town or industrial area	Irrigation, Cultivation, Fishing	Washing, Cultivation, Fishing	C-Drinking water source after conventional treatment and disinfection	Plastic Waste

Visible Effluent Discharge	Weather	Approxdepth (m)	Floating Matter	Colour	Odour	Flow (In MLD)	Temperature (°C)	Dissolved O2 (mg/L)	pH
None	Clear	Greater than 100 cm	No	Clear	None		28	6.8	6.7

Conductivity (µmho/Cm)	BOD (mg/L)	Nitrate - N (mg/L)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)	Fecal Streptococci (MPN/100ml)	Total Alkalinity (mg/L)	Chlorides (mg/L)	COD (mg/L)	Total Kjeldahl Nitrogen (mg/L)
126	1.2	0.9	190	50	160	29	46	4.7	1.5 (BDL)

Ammonical N (mg/L)	Total Hardness (mg/L)	Ca as CaCo3 (mg/L)	Mg as CaCo3 (mg/L)	Sulphate (mg/L)	Ca++ (mg/L)	Mg++ (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Total Fixed Solids (mg/L)
0.1	36	21	15	15.7	8.42	3.645	24.2	106	84

Total Suspended Solids (mg/L)	Total Phosphate (mg/L)	Boron (mg/L)	Potassium (mg/L)	Fluoride (mg/L)	Sodium Percentage (%)	SAR	Any Other General Parameters	Inlet / Outlet	DL Verification
104	0.039 (BDL)	0.44	2.1	0.3	57.6	1.75		Outlet	true

Measured TDS (mg/L)	DBU Class For Coastal and Marine	Ion Balance ((Total Cations)-(Total Anions) / (Total Cations)+(Total Anions))	Ion Balance ((Na+,meq/L) / (Cl-,meq/L))	EC Balance (TDS,mg/L) / (EC,µmho/cm)	Carbon Balance (COD,mg/L) / (BOD,mg/L)	CO-3 balance (pH < 8.3)	Class
109		-0.08 (True)	0.8 (True)	0.87 (True)	3.92 (True)	True	B

PULLUR AR JULY 2026

STN Code	State	District	River Basin	Monitoring Location	Location Details	Use of Water in Down Stream	Human Activities around the Station	Use Based Class	Weather
2303	Kerala	Kasaragod	Pullur	Pullur Bridge	D/S of town or industrial area	Irrigation, Cultivation, Fishing	Washing, Cultivation, Fishing	C-Drinking water source after conventional treatment and disinfection	Clear

Approxdepth (m)	Colour	Temperature (°C)	Dissolved O2 (mg/L)	pH	Conductivity (µmho/Cm)	BOD (mg/L)	Nitrate - N (mg/L)	Total Coliform (MPN/100ml)	Fecal Coliform (MPN/100ml)
Less than 50 cm	Clear	27	7.1	6.8	76	1.6	0.9	110	70

Fecal Streptococci (MPN/100ml)	Total Alkalinity (mg/L)	Chlorides (mg/L)	COD (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Ammonical N (mg/L)	Total Hardness (mg/L)	Ca as CaCo3 (mg/L)	Mg as CaCo3 (mg/L)	Sulphate (mg/L)
210	24	22	5.3	1.5 (BDL)	0.1	21	8	13	13.4

Ca++ (mg/L)	Mg++ (mg/L)	Sodium (mg/L)	Total Dissolved Solids (mg/L)	Total Fixed Solids (mg/L)	Total Suspended Solids (mg/L)	Total Phosphate (mg/L)	Boron (mg/L)	Potassium (mg/L)	Fluoride (mg/L)
3.21	3.159	16.1	64	49	48	0.0323	0.01	1.0 (BDL)	0.2

Sodium Percentage (%)	SAR	Any Other General Parameters	Inlet / Outlet	DL Verification	Measure d TDS (mg/L)	DBU Class For Coastal and Marine	Ion Balance ((Total Cations)-(Total Anions) / (Total Cations)+(Total Anions))	Ion Balance ((Na+,meq/L) / (Cl-, meq/L))	EC Balance (TDS,mg/L) / (EC,µmho/cm)
61.1	1.52		Outlet	true	66		-0.08 (True)	1.1 (True)	0.87 (True)

Carbon Balance (COD,mg/L) / (BOD,mg/L)	CO-3 balance (pH < 8.3)	Class
3.31 (True)	True	B