

Water quality of Priority-I Polluted river stretch-2018

Gangua nallah along Bhubaneswar city

Name of Monitoring location	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/ 100 ml)	Overall water quality status during 2018
Gangua Near Rajdhani Engineering College	Jan	6.8	1.7	10.5	160000	Not conforming to Class-C and Class-B
	Feb	7.6	3.2	15.9	92000	
	Mar	7.6	3.4	19.4	160000	
	Apr	6.7	1.1	21.3	160000	
	May	6.5	1.2	31.3	160000	
	June	7.2	1.4	21.2	160000	
	July	7.0	0.4	17.6	160000	
	Aug	6.8	4.6	3.6	160000	
	Sep	6.9	1.4	5.7	160000	
	Oct	7.4	0.9	4.1	160000	
	Nov	7.5	1.9	5.7	160000	
	Dec	6.5	1.9	4.8	160000	
Gangua near Palasuni	Jan	6.7	2.0	16.2	160000	Not conforming to Class-C and Class-B
	Feb	7.5	1.0	33.3	92000	
	Mar	7.5	2.6	10.3	160000	
	Apr	6.7	2.1	17.6	160000	
	May	6.5	1.2	22.8	160000	
	June	7.2	0.8	34.3	160000	
	July	7.7	0.5	14.2	160000	
	Aug	6.8	3.2	4.1	160000	
	Sep	6.8	1.9	7.5	160000	
	Oct	7.5	2.0	4.5	160000	
	Nov	7.3	2.1	5.2	160000	
	Dec	7.0	1.4	9.5	160000	
Gangua near Samantarapur	Jan	7.0	1.0	49.0	160000	Not conforming to Class-C and Class-B
	Feb	7.4	0.2	70.8	54000	
	Mar	7.2	0.7	19.6	160000	
	Apr	6.9	0.4	32.6	160000	
	May	6.7	0.9	17.8	160000	
	June	7.9	0.3	29.4	160000	
	July	7.0	0.5	16.0	160000	
	Aug	7.8	3.8	3.6	160000	
	Sep	6.9	1.6	6.7	160000	
	Oct	7.5	0	3.7	160000	
	Nov	7.2	1.6	6.6	160000	
	Dec	7.2	0.8	12.7	160000	

Name of Monitoring location	Month	pH	DO (mg/l)	BOD (mg/l)	TC (MPN/ 100 ml)	Overall water quality status during 2018
Gangua near Vadimula	Jan	7.1	2.5	16.0	24000	Not conforming to Class-C and Class-B
	Feb	7.4	3.6	12.7	13000	
	Mar	7.2	6.6	6.6	160000	
	Apr	7.0	3.7	15.2	160000	
	May	6.7	1.9	4.5	160000	
	June	8.1	1.8	16.3	160000	
	July	8.1	0.7	4.5	160000	
	Aug	7.2	4.4	3.4	160000	
	Sep	7.1	3.2	4.2	160000	
	Oct	7.6	2.4	4.0	160000	
	Nov	7.2	4.6	3.7	5400	
	Dec	7.1	3.4	5.8	160000	

Tolerance limits for Class B and Class C Inland Surface Water Bodies

(Designated Best Use Classification by CPCB)

	pH	DO, mg/l	BOD, mg/l	TC, MPN/ 100 ml
Class 'B' (Out door bathing)	6.5-8.5	5.0 or more	3.0 or less	500 or less
Class 'C' (Drinking water source with conventional treatment and after disinfection)	6.5-8.5	4.0 or more	3.0 or less	5000 or less

Note : DO: Dissolved Oxygen available for degradation of organic matter

B.O.D.: Biochemical Oxygen Demand indicates the presence of biodegradable Organic matter

TC: Total Coliform Bacteria