

## Water quality of Priority-I Polluted river stretch-2019

### 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	7.4	2.1	18.1	160000	Not conforming to Class-C and Class-B
	Feb	7.1	1.3	20.1	160000	-do-
	Mar	7.3	3.7	7.3	160000	
	Apr	7.2	1.7	14.7	160000	
	May	6.5	0.9	20.6	160000	
Gangua near Palasuni	Jan	7.1	1.5	22.1	160000	Not conforming to Class-C and Class-B
	Feb	7.1	2.3	22.1	160000	-do-
	Mar	7.2	1	12.1	160000	
	Apr	7.2	1.7	21.3	160000	
	May	6.7	4.2	25.5	160000	
Gangua near Samantarapur	Jan	7	0.9	39.2	160000	Not conforming to Class-C and Class-B
	Feb	7.1	0.7	25.5	160000	-do-
	Mar	7.2	0.7	14.6	160000	
	Apr	7.6	1.5	17.8	160000	
	May	7.1	2.8	26.5	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	7.2	2	7.2	160000	Not conforming to Class-C and Class-B
	Feb	7.4	3.3	5.1	16000	-do-
	Mar	7.2	0.9	12.6	160000	
	Apr	7.1	2.2	5.6	160000	
	May	7.1	3.9	6.8	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