

Polluted River Stretches in Chhattisgarh:-

Central Pollution Control Board has identified polluted river stretches state wise and priority wise. On the basis of water quality data under National Water Quality Monitoring Programme for the year 2016 and 2017 following river stretches of Chhattisgarh have been identified as polluted stretches:-

Table

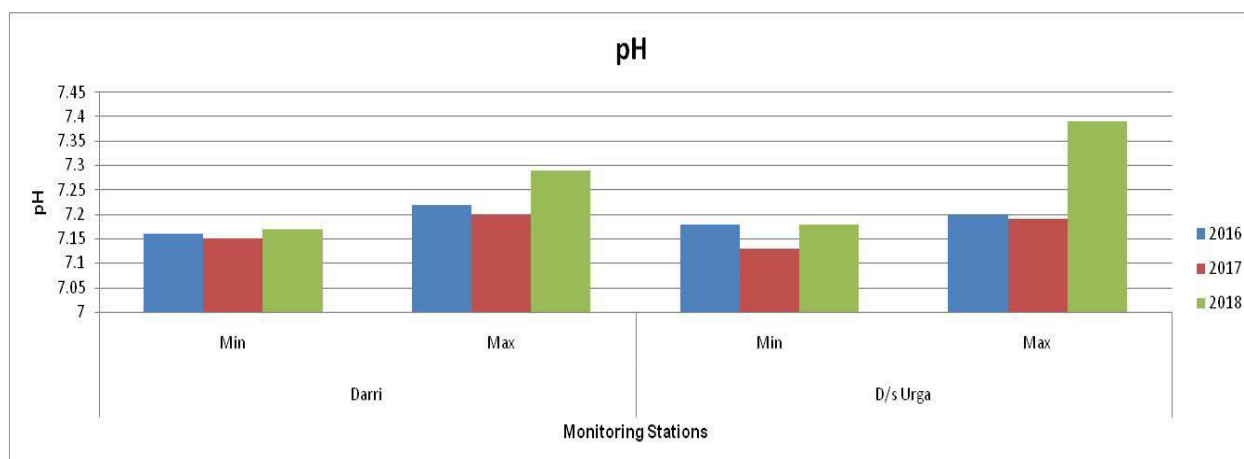
River stretches have been categorized in five priority classes based on BOD concentration. River stretches having BOD between 6 to 10 mg/l have been kept under category "IV". Similarly river stretches having BOD between 3 to 5 mg/l have been kept under category "V".

River Name	River Stretch	BOD Range/Max Value (mg/l)	Priority	Towns situated across the stretches	Approx length of the stretch (in km)
Hasdeo	Korba to Urga	3.6 – 7.0	IV	Korba	20
Kharoon	Bundari to Raipur	3.3 – 7.2	IV	Raipur	20
Mahanadi	Arrang to Sihawa	3.3 – 8.0	IV	Kanker, Dhamtari, Nawapara, Rajim	70
Seonath	Simga to Bemta	3.4 – 8.4	IV	Simga	10
Kelo	Raigarh to Kanaktora	3.8	V	Raigarh	15

HASDEO RIVER KORBA

Table No.3 :-

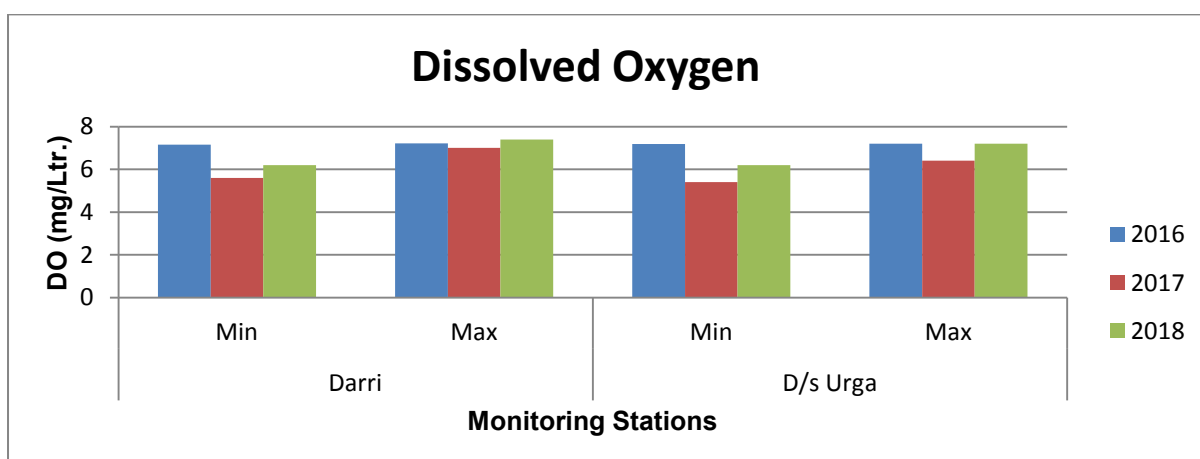
Location	Darri		D/s Urga	
	Min	Max	Min	Max
2016	7.16	7.22	7.18	7.2
2017	7.15	7.2	7.13	7.19
2018	7.17	7.29	7.18	7.39



* Parameters are compared with IS: 2296 Class – B

Table No.4:-

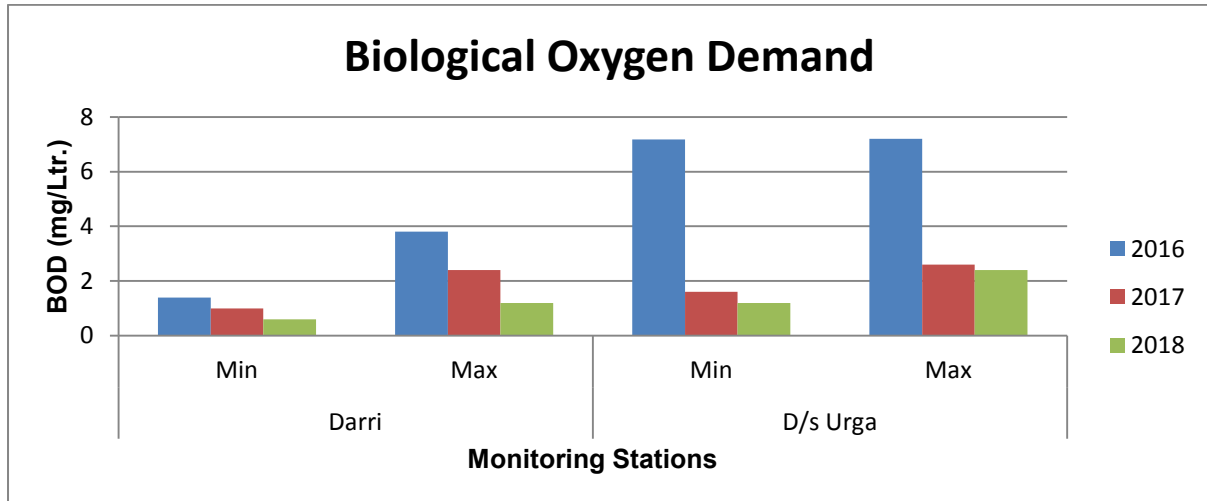
DO	Darri		D/s Urga	
	Min	Max	Min	Max
Mg/Ltr.				
2016	7.16	7.22	7.18	7.2
2017	5.6	7	5.4	6.4
2018	6.2	7.4	6.2	7.2



* Parameters are compared with IS: 2296 Class - B

Table No.5:-

BOD	Darri		D/s Urga	
Mg/Ltr.	Min	Max	Min	Max
2016	1.4	3.8	7.18	7.2
2017	1	2.4	1.6	2.6
2018	0.6	1.2	1.2	2.4

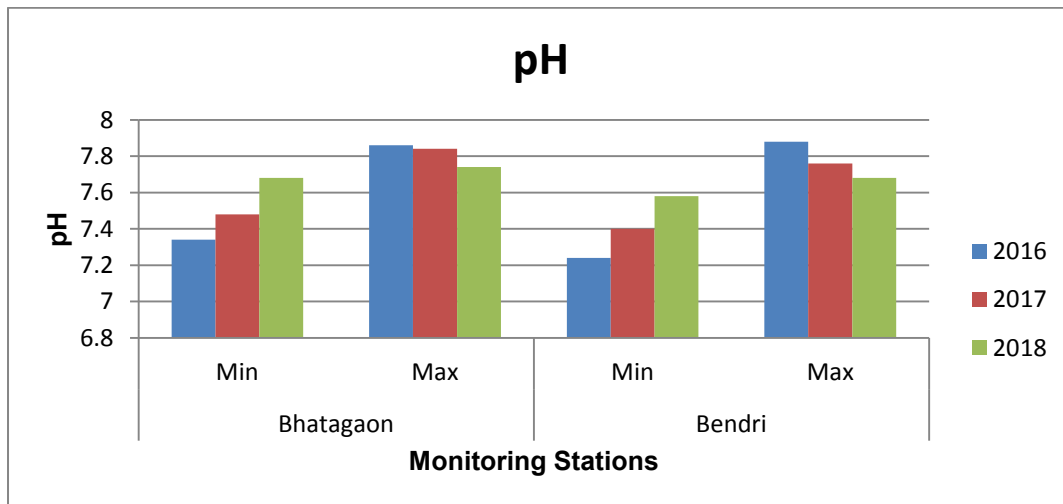


* Parameters are compared with IS: 2296 Class - B

KHAROON RIVER RAIPUR

Table No. 6:-

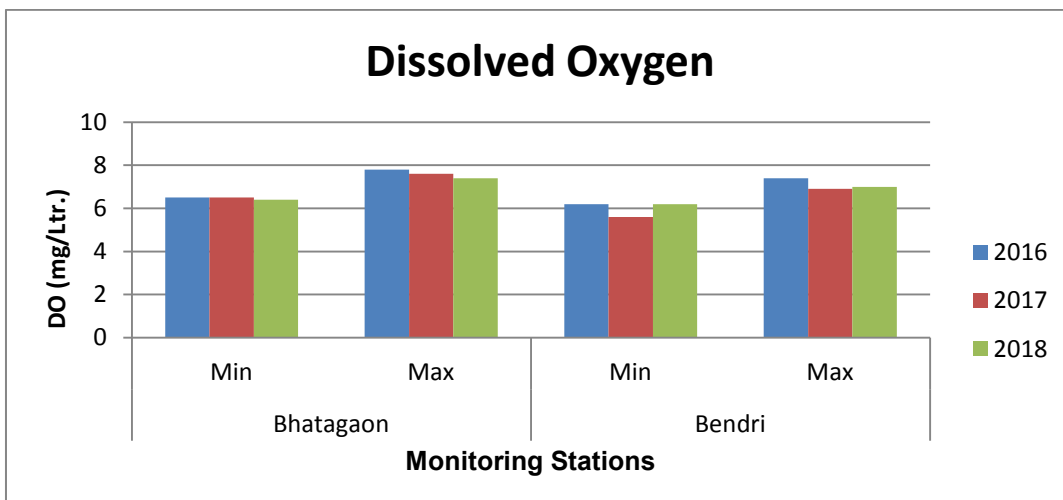
Location	Bhatagaon		Bendri	
pH	Min	Max	Min	Max
2016	7.34	7.86	7.24	7.88
2017	7.48	7.84	7.4	7.76
2018	7.68	7.74	7.58	7.68



* Parameters are compared with IS: 2296 Class - B

Table No.7:-

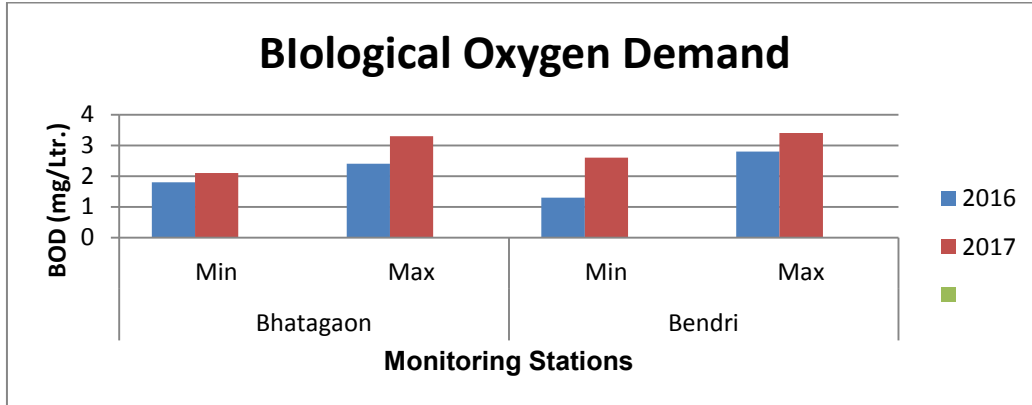
DO	Bhatagaon		Bendri	
Mg/Ltr.	Min	Max	Min	Max
2016	6.5	7.8	6.2	7.4
2017	6.5	7.6	5.6	6.9
2018	6.4	7.4	6.2	7



* Parameters are compared with IS: 2296 Class – B

Table No.8:-

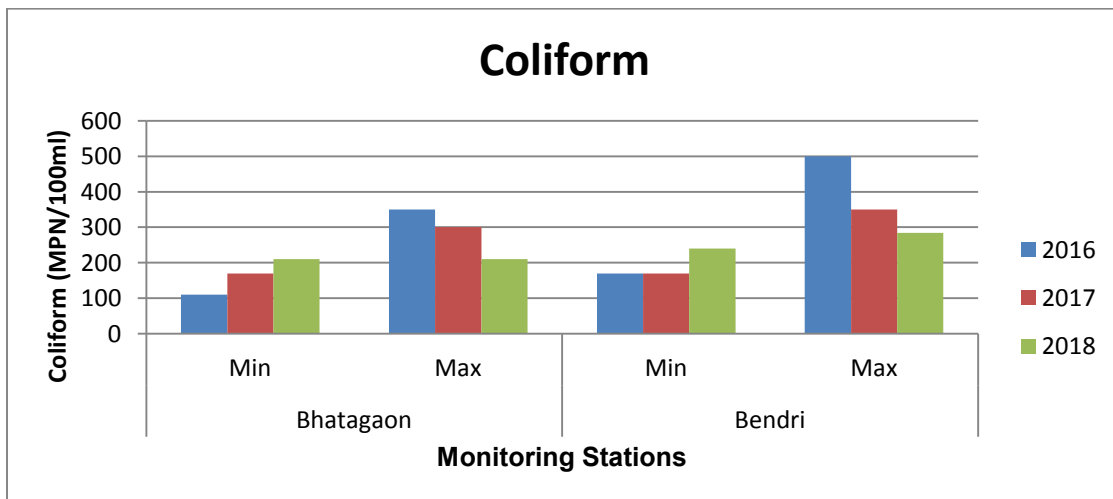
BOD	Bhatagaon		Bendri	
Mg/Ltr.	Min	Max	Min	Max
2016	1.8	2.4	1.3	2.8
2017	2.1	3.3	2.6	3.4



* Parameters are compared with IS: 2296 Class - B

Table No.9:-

Coliform	Bhatagaon		Bendri	
MPN/100ml	Min	Max	Min	Max
2016	110	350	170	500
2017	170	300	170	350
2018	210	210	240	284

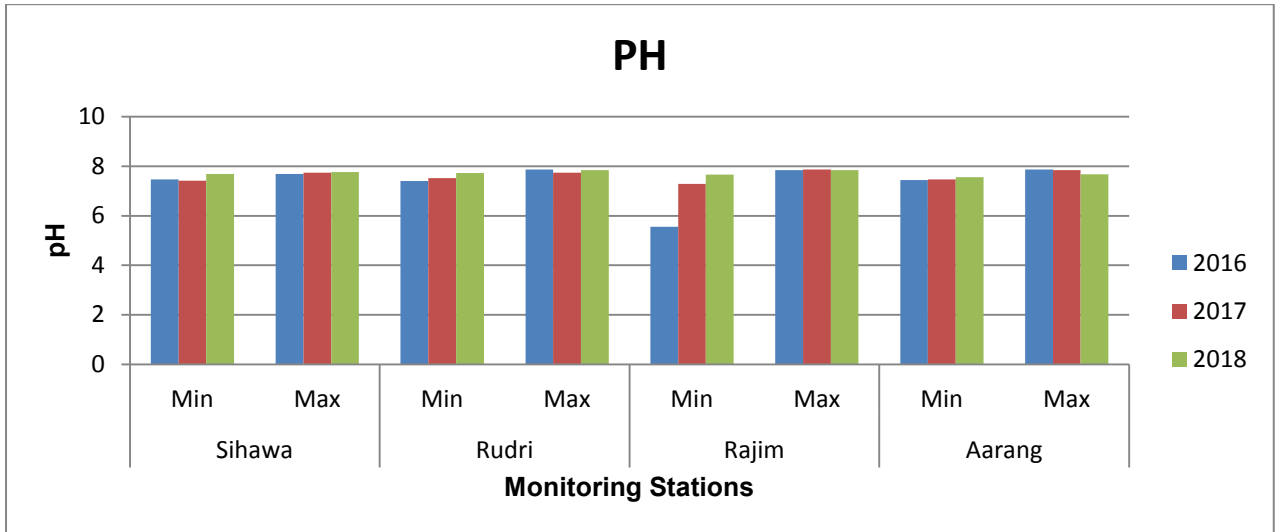


* Parameters are compared with IS: 2296 Class – B

MAHANADI RIVER SIHAWA TO AARANG

Table No.10:-

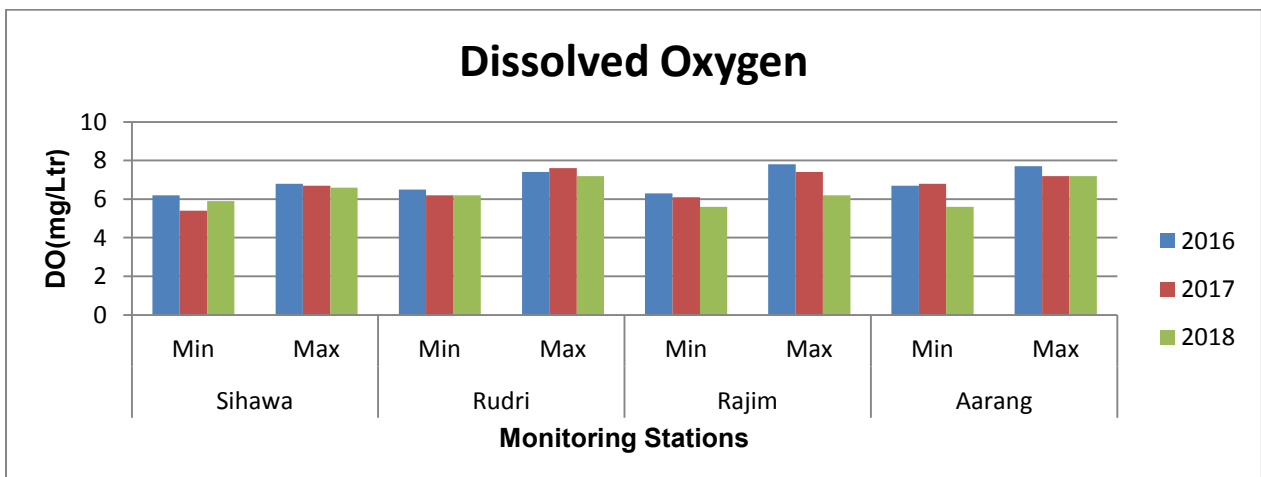
Location	Sihawa		Rudri		Rajim		Aarang	
	Min	Max	Min	Max	Min	Max	Min	Max
2016	7.46	7.68	7.4	7.86	5.56	7.84	7.44	7.86
2017	7.42	7.74	7.52	7.74	7.28	7.86	7.46	7.84
2018	7.68	7.76	7.72	7.84	7.66	7.84	7.56	7.67



* Parameters are compared with IS: 2296 Class – B

Table No.11:-

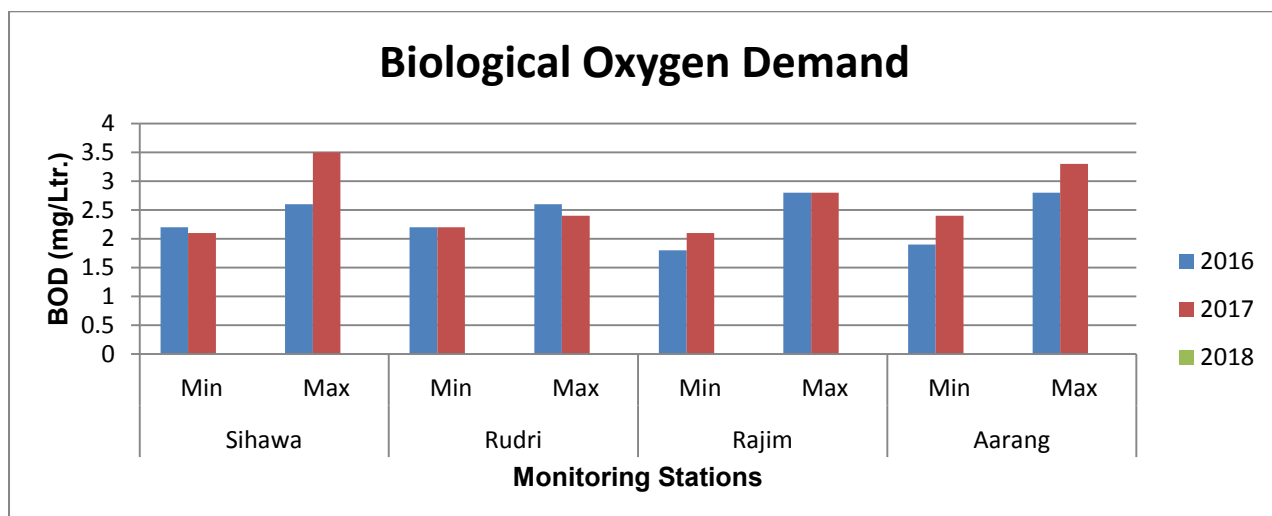
DO	Sihawa		Rudri		Rajim		Aarang	
	Min	Max	Min	Max	Min	Max	Min	Max
Mg/Ltr.								
2016	6.2	6.8	6.5	7.4	6.3	7.8	6.7	7.7
2017	5.4	6.7	6.2	7.6	6.1	7.4	6.8	7.2
2018	5.9	6.6	6.2	7.2	5.6	6.2	5.6	7.2



* Parameters are compared with IS: 2296 Class - B

Table No.12:-

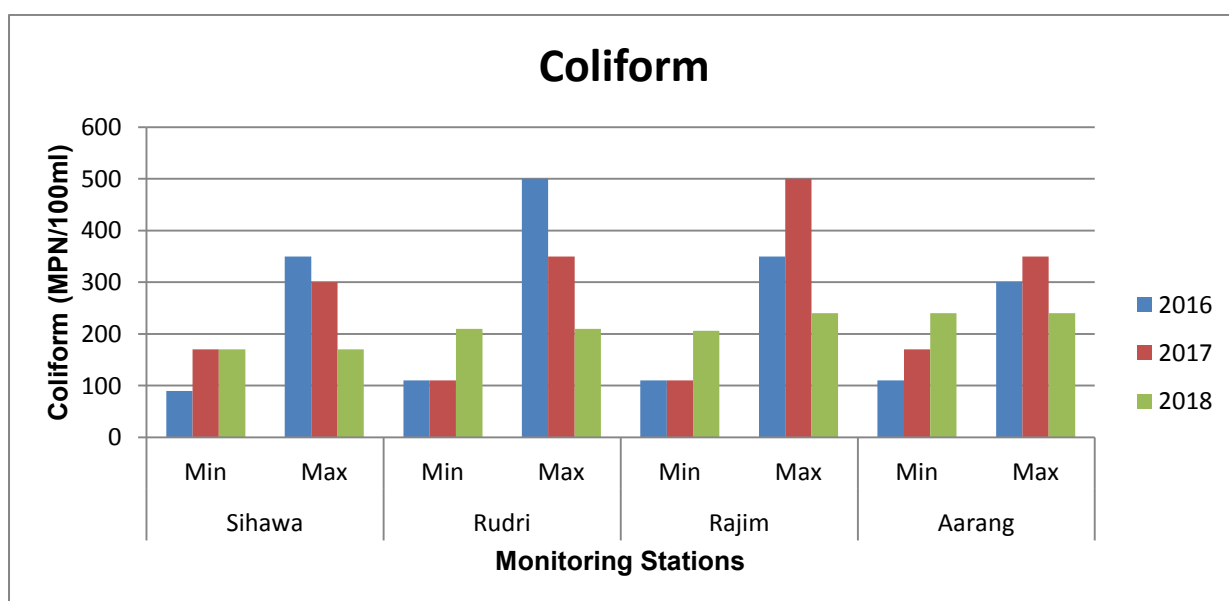
BOD	Sihawa		Rudri		Rajim		Aarang	
Mg/Ltr.	Min	Max	Min	Max	Min	Max	Min	Max
2016	2.2	2.6	2.2	2.6	1.8	2.8	1.9	2.8
2017	2.1	3.5	2.2	2.4	2.1	2.8	2.4	3.3



* Parameters are compared with IS: 2296 Class - B

Table No.13:-

Coliform	Sihawa		Rudri		Rajim		Aarang	
MPN/100ml	Min	Max	Min	Max	Min	Max	Min	Max
2016	90	350	110	500	110	350	110	300
2017	170	300	110	350	110	500	170	350
2018	170	170	210	210	206	240	240	240

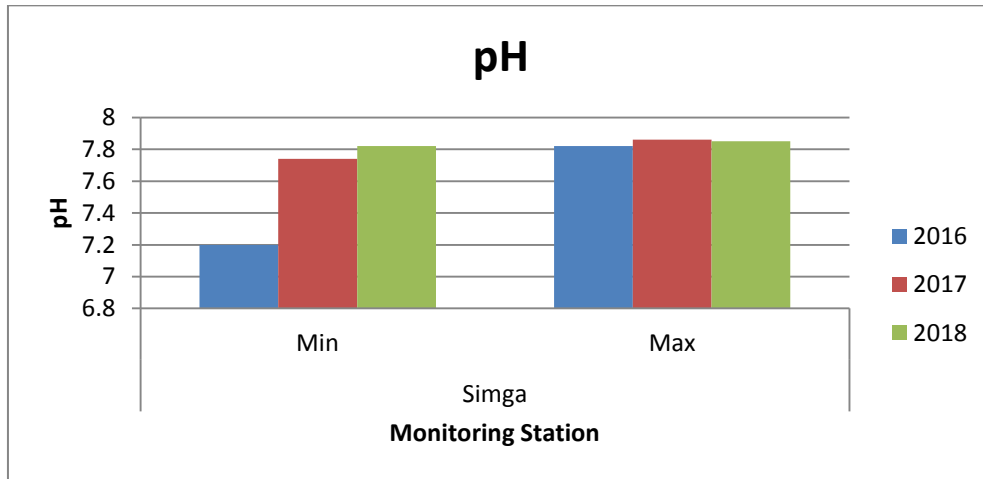


* Parameters are compared with IS: 2296 Class - B

SHIVNATH RIVER

Table No.14:-

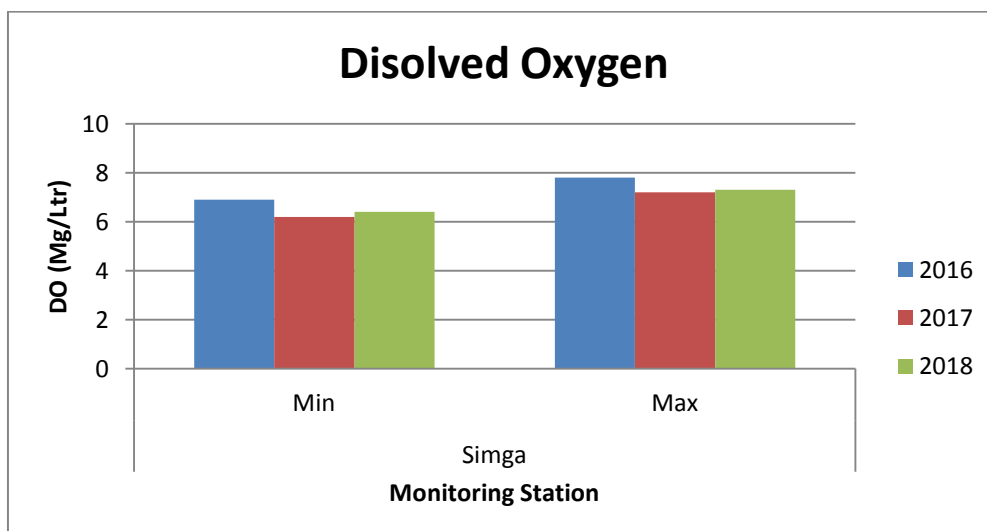
pH	Simga	
pH Unit	Min	Max
2016	7.2	7.82
2017	7.74	7.86
2018	7.82	7.85



* Parameters are compared with IS: 2296 Class - B

Table No.15:-

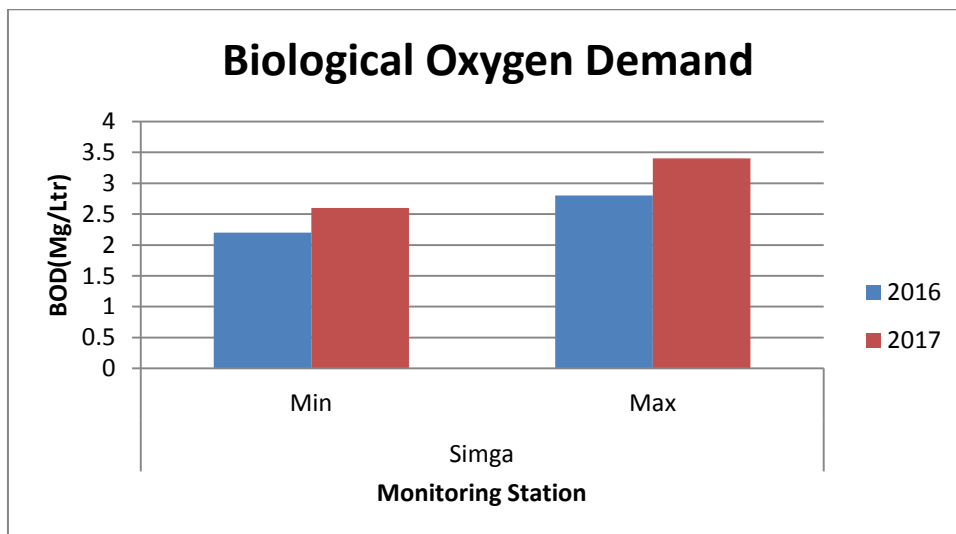
DO	Simga	
Mg/Ltr.	Min	Max
2016	6.9	7.8
2017	6.2	7.2
2018	6.4	7.3



* Parameters are compared with IS: 2296 Class - B

Table No.16:-

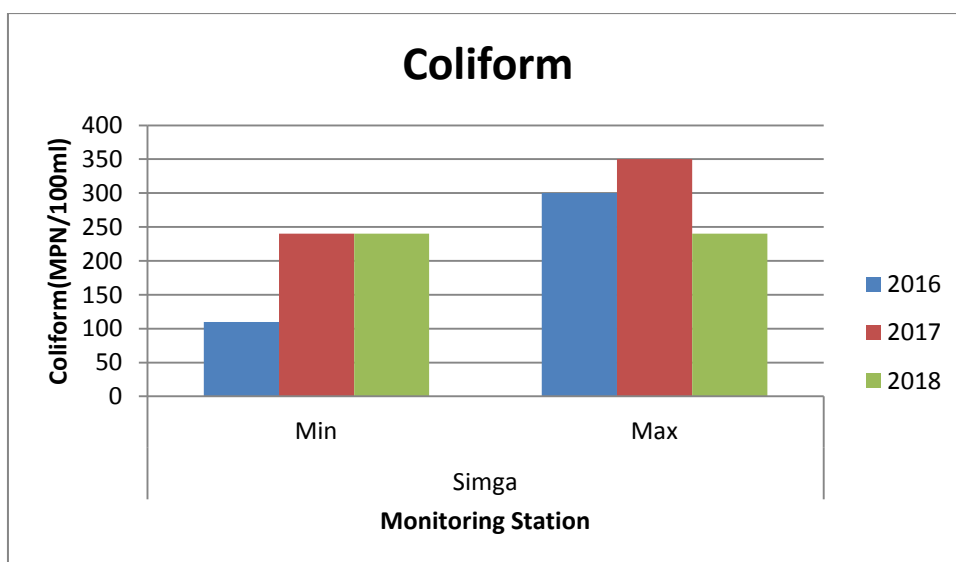
BOD	Simga	
Mg/Ltr.	Min	Max
2016	2.2	2.8
2017	2.6	3.4



* Parameters are compared with IS: 2296 Class – B

Table No.17:-

Coliform	Simga	
MPN/100ml	Min	Max
2016	110	300
2017	240	350
2018	240	240

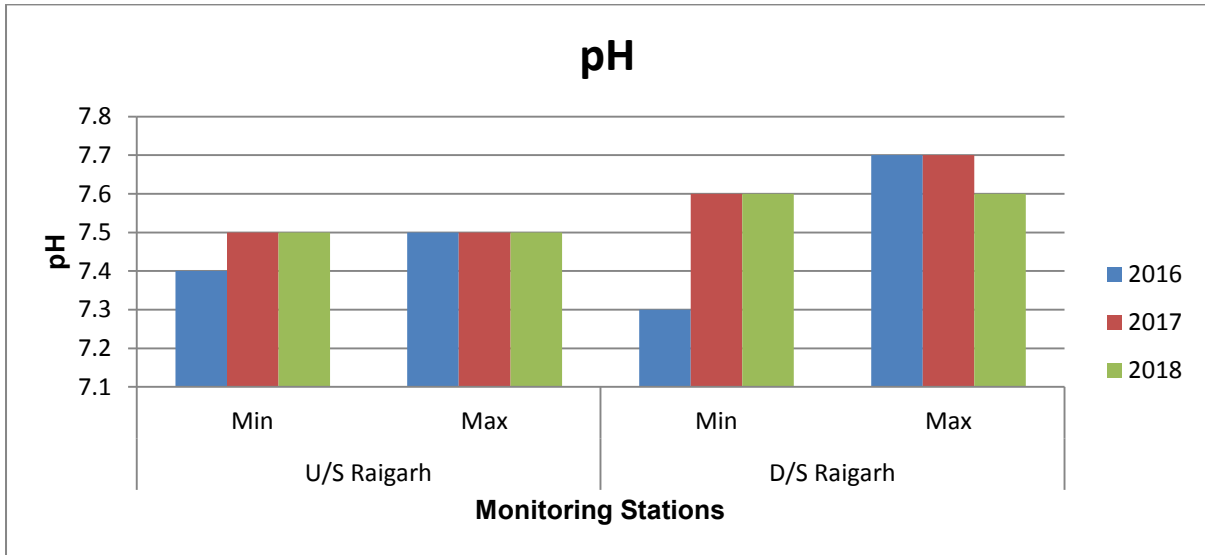


* Parameters are compared with IS: 2296 Class – B

Kelo River

Table No.18:-

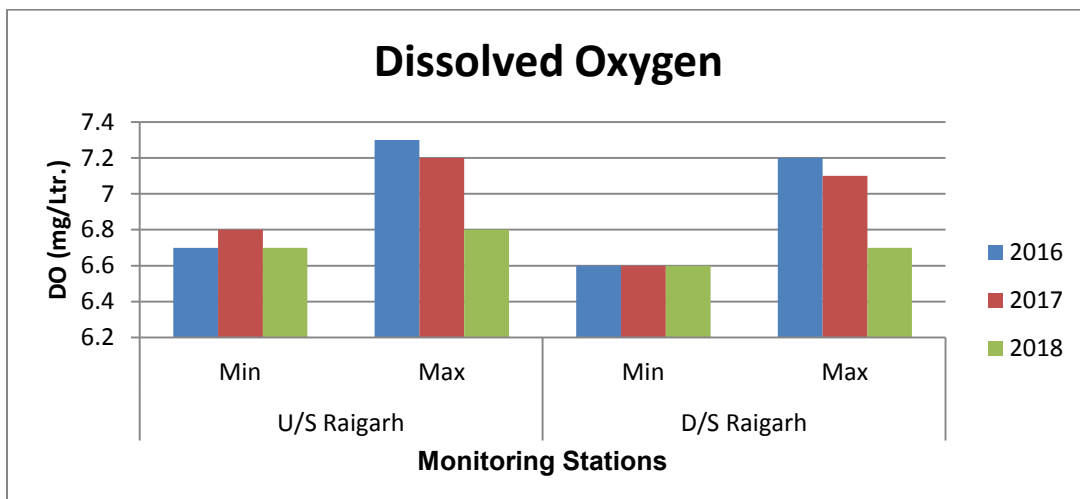
pH	U/S Raigarh		D/S Raigarh	
pH Unit	Min	Max	Min	Max
2016	7.4	7.5	7.3	7.7
2017	7.5	7.5	7.6	7.7
2018	7.5	7.5	7.6	7.6



* Parameters are compared with IS: 2296 Class – B

Table No.19:-

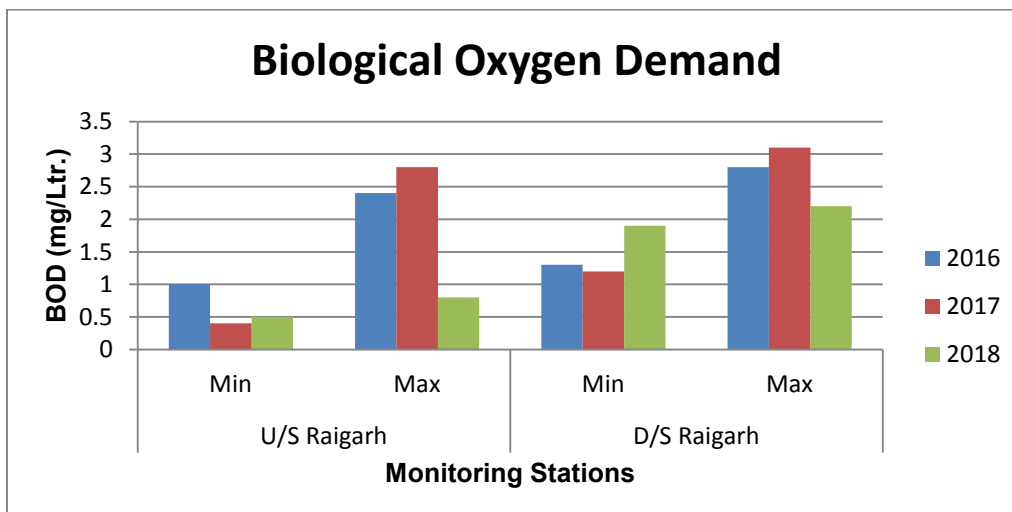
DO	U/S Raigarh		D/S Raigarh	
Mg/Ltr.	Min	Max	Min	Max
2016	6.7	7.3	6.6	7.2
2017	6.8	7.2	6.6	7.1
2018	6.7	6.8	6.6	6.7



* Parameters are compared with IS: 2296 Class – B

Table No.20:-

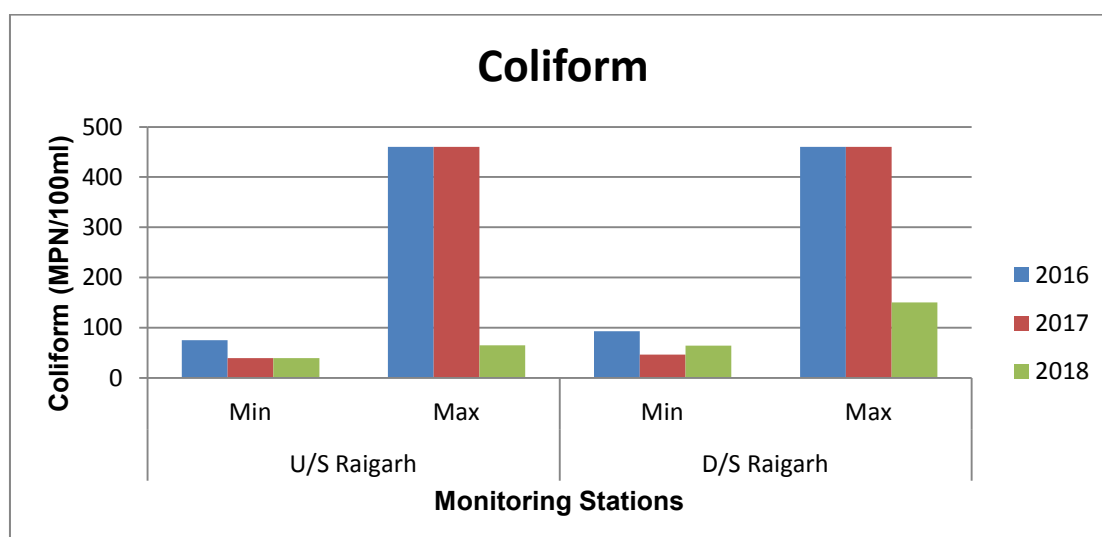
BOD	U/S Raigarh		D/S Raigarh	
	Min	Max	Min	Max
2016	1	2.4	1.3	2.8
2017	0.4	2.8	1.2	3.1
2018	0.5	0.8	1.9	2.2



* Parameters are compared with IS: 2296 Class - B

Table No.21:-

Coliform	U/S Raigarh		D/S Raigarh	
	Min	Max	Min	Max
2016	75	460	93	460
2017	39	460	46	460
2018	39	65	64	150



* Parameters are compared with IS: 2296 Class - B

Latest water quality of polluted river stretches

Polluted River Stretch (Range in Year 2019)

River Hasdeo (Korba to Urga) – P – IV

Monitoring Location		Hasdeo Barrage Darri Korba	Downstream near Village Urga, Korba
BOD (mg/l)	Min	0.6	1.0
	Max	1.8	2.0
Fecal Coliform (MPN/100ml)	Min	4	1.8
	Max	110	22.0

River Kharoon (Bhatagaon to Bendri) – P – IV

Monitoring Location		Near water supply intake well Bhatagaon	Near water supply intake well Bendri
BOD (mg/l)	Min	2.1	2.8
	Max	8.6	6.8
Fecal Coliform (MPN/100ml)	Min	<2	<2
	Max	84	94

River Mahanadi (Sihawa to Arrang) – P – IV

Monitoring Location		Origin of Mahanadi, Sihawa	Near Gandhi Bridge, Arrang
BOD (mg/l)	Min	2.2	3.0
	Max	4.0	4.2
Fecal Coliform (MPN/100ml)	Min	14	10
	Max	170	120

River Seonath (Bemta to Simga) – P – IV

Monitoring Location		Road Bridge Bemetara Simga
BOD (mg/l)	Min	2.33
	Max	3.8
Fecal Coliform (MPN/100ml)	Min	2
	Max	17

River Kelo (Raigarh to Kanaktora) – P – V

Monitoring Location		Upstream Raigarh City	Near Kayaghat, Downstream, Raigarh
BOD (mg/l)	Min	1.7	2.1
	Max	3.3	3.9
Fecal Coliform (MPN/100ml)	Min	30.0	230.0
	Max	210.0	460.0

Indian Standard 2296 :

- BOD (3 days 27 degree celsius) – 03 Milligram per liters
- Fecal Coliform (MPN/100ml) – 500