

Water Sample Analysis Report

Name of Sampling Point – Kharoon river at Mahadev Ghat, Raipur

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 16. 09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18. 09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 24.09.2013)
1.	Temperature	°C	31.2	30.9	31.0
2.	Appearance	-	Slight Turbid	Slight Turbid	Slight Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Units	7.7	7.8	7.9
5.	Conductivity	Mhos/cm	278.0	390.0	350.0
6.	Turbidity	NTU	23.0	96.0	61.0
7.	Total Solids	Mg/L	280.0	490.0	330.0
8.	Dissolved Solids	Mg/L	230.0	330.0	220.0
9.	Suspended Solid	Mg/L	50.0	160.0	110.0
10.	Nitrite Nitrogen	Mg/L	1.3	2.4	2.0
11.	Dissolved Oxygen	Mg/L	7.3	6.3	6.9
12.	B.O.D.	Mg/L	2.2	2.8	2.5
13.	C.O.D.	Mg/L	28.56	66.64	57.12
14.	Total Alkalinity	Mg/L	122.0	148.0	138.0
15.	Total Hardness	Mg/L	106.0	178.0	148.0
16.	Calcium Hardness	Mg/L	72.0	130.0	90.0
17.	Magnesium Hardness	Mg/L	34.0	48.0	58.0
18.	Sulphate	Mg/L	17.0	39.0	23.0
19.	Phosphate	Mg/L	1.4	3.3	2.7
20.	Chloride	Mg/L	15.0	65.0	45.0
21.	Calcium	Mg/L	28.8	52.0	36.0
22.	Magnesium	Mg/L	8.29	11.7	14.14
23.	Coliform	MPN/100 ml	90.0	500.0	220.0

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Arpa River at Sendari Village near Shiv mandir, Bilaspur.

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 12.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	Temperature	^o C	30.0	30.0	33.0
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	8.0	8.0	8.5
5.	Turbidity	NTU	065	65**	80.0**
6.	Sp. Conductivity	Micro Mhos/cm	183.0	283.0	230.0
7.	Total Solids	Mg/L	260.0	240.0	236.0
8.	T. Dissolved Solids	--,,--	168.0	174.0	150.0
9.	Suspended Solids	--,,--	92.0	66.0	86.0
10.	Dissolved Oxygen (DO)	Mg/L	7.8	6.0	7.6
11.	C.O.D.	--,,--	40.0	88.0	27.96
12.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
13.	Copper (Cu)	--,,--	<0.01	<0.01	<0.01
14.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
15.	Zinc (Zn)	--,,--	<0.01	<0.01	<0.01

Note :- Rainy weather prevailed during the Idol Emersion activities. Heavy water flow observed in the river

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Arpa River at Pachri Ghat Bilaspur.

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 12.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	Temperature	^o C	30.0	30.0	32.0
2.	Appearance	-	H. Turbid	H. Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	8.5	8.5	8.0
5.	Turbidity	NTU	168.0	168**	49.0**
6.	Sp. Conductivity	Micro Mhos/cm	284.0	378.0	240.0
7.	Total Solids	Mg/L	321.0	366.0	223.0
8.	T. Dissolved Solids	--,,--	210.0	218.0	153.0
9.	Suspended Solids	--,,--	111.0	148.0	70.0
10.	Dissolved Oxygen (DO)	Mg/L	5.8	4.8	7.5
11.	C.O.D.	--,,--	110.0	136.0	37.28
12.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
13.	Copper (Cu)	--,,--	<0.01	<0.01	0.01
14.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
15.	Zinc (Zn)	--,,--	<0.01	0.06	0.04

Note :- Rainy weather prevailed during the Idol Emersion activities. Heavy water flow observed in the river

Remark :- Results show marginal impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Arpa River at Chhath Ghat Bilaspur.

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 12.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	Temperature	⁰ C	30.0	31.0	31.0
2.	Appearance	-	H. Turbid	H. Turbid	Slightly Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	8.5	8.5	7.5
5.	Turbidity	NTU	131.0	118**	42.0**
6.	Sp. Conductivity	Micro Mhos/cm	242.0	387.0	265.0
7.	Total Solids	Mg/L	292.0	300.0	229.0
8.	T. Dissolved Solids	--,,--	196.0	192.0	185.0
9.	Suspended Solids	--,,--	96.0	108.0	44.0
10.	Dissolved Oxygen (DO)	Mg/L	6.0	5.0	6.0
11.	B.O.D (3day 27 ⁰ C)	--,,--	*	*	*
12.	C.O.D.	--,,--	96.0	116.0	37.28
13.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
14.	Copper (Cu)	--,,--	<0.01	<0.01	<0.01
15.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
16.	Zinc (Zn)	--,,--	<0.01	<0.01	<0.01

Note :- Rainy weather prevailed during the Idol Emersion activities. Heavy water flow observed in the river

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Arpa River at Check Dam Outlet, Near Deorikhurd, Bilaspur.

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 12.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	Temperature	⁰ C	29.5	29.0	30.0
2.	Appearance	-	S. Turbid	Turbid	Slightly Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	8.0	8.0	8.0
5.	Turbidity	NTU	042	84**	46.0**
6.	Sp. Conductivity	Micro Mhos/cm	228.0	242.0	265.0
7.	Total Solids	Mg/L	258.0	276.0	235.0
8.	T. Dissolved Solids	--,,--	184.0	180.0	193.0
9.	Suspended Solids	--,,--	74.0	96.0	42.0
10.	Dissolved Oxygen (DO)	Mg/L	7.2	6.5	7.3
11.	B.O.D (3day 27 ⁰ C)	--,,--	*	*	*
12.	C.O.D.	--,,--	48.0	74.0	27.96
13.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
14.	Copper (Cu)	--,,--	<0.01	<0.01	<0.01
15.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
16.	Zinc (Zn)	--,,--	<0.01	<0.01	<0.01

Note :- Rainy weather prevailed during the Idol Emersion activities. Heavy water flow observed in the river

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Kelo River at 50 meter down stream of idol immersion point near Chakrapath Bhagat Singh bridge, Raigarh

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 13.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	pH	pH Unit	7.26	7.31	7.25
2.	Turbidity	NTU	40.0	48.0	43.0
3.	Specific Conductivity	Micro Mhos	164.6	182.0	174.0
4.	Total Solid	Mg/L	195.0	221.0	200.0
5.	Total Dissolved Solid	Mg/L	136.0	148.0	140.0
6.	Dissolved Oxygen	Mg/L	7.2	6.8	7.1
7.	C.O.D.	Mg/L	24.0	28.0	24.0

Remark :- Results show no significant impact on water quality of river.

Name of Sampling Point - Kelo River at 50 meter down stream of idol immersion point at Kaya Ghat bridge, Raigarh.

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 13.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	pH	pH Unit	7.28	7.33	7.29
2.	Turbidity	NTU	47.0	52.0	48.0
3.	Specific Conductivity	Micro Mhos	181.2	187.0	176.0
4.	Total Solid	Mg/L	202.0	227.0	207.0
5.	Total Dissolved Solid	Mg/L	140.0	149.0	143.0
6.	Dissolved Oxygen	Mg/L	7.1	6.8	7.0
7.	C.O.D.	Mg/L	28.0	32.0	28.0

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Kelo River at 50 meter down stream of idol immersion point at Chhat Ghat, Raigarh

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 13.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 20.09.2013)
1.	pH	pH Unit	7.28	7.33	7.30
2.	Turbidity	NTU	48.0	51.0	50.0
3.	Specific Conductivity	Micro Mhos	182.9	186.0	177.0
4.	Total Solid	Mg/L	211.0	225.0	210.0
5.	Total Dissolved Solid	Mg/L	144.0	152.0	145.0
6.	Dissolved Oxygen	Mg/L	7.1	6.7	7.0
7.	C.O.D.	Mg/L	28.0	32.0	28.0

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Talpuri Talab, Bhilai, Durg

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 17.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 19.09.2013)
1.	Temperature	⁰ C	27	27	27
2.	pH	pH	7.9	5.5	5.8
3.	Specific Conductivity	μ Mhos	312	421	402
4.	Total Solid	mg/lit	370	510	470
5.	Dissolved Solids	mg/lit	280	330	330
6.	Suspended Solids	mg/lit	90	180	140
7.	Dissolved Oxygen	mg/lit	7.6	5.6	5.9
8.	B O D (3days at 27 ⁰ C)	mg/lit	4.8	14	10
9.	C O D	mg/lit	58.08	125.84	106.48

Remark :- Results show marginal impact on water quality of pond.

Name of Sampling Point - River Sheonath, Near Gurudwara,
(Durg- Rajnandgaon Road Bridge), Durg

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 17.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 19.09.2013)
1.	Temperature	⁰ C	26	26	26
2.	pH	pH	7.5	6.1	6.5
3.	Specific Conductivity	μ Mhos	331	362	359
4.	Total Solid	mg/lit	350	430	390
5.	Dissolved Solids	mg/lit	280	310	290
6.	Suspended Solids	mg/lit	70	120	100
7.	Dissolved Oxygen	mg/lit	7.6	6.2	6.4
8.	B O D (3days at 27 ⁰ C)	mg/lit	1.6	3.4	2.8
9.	C O D	mg/lit	29.04	58.08	48.4

Remark :- Results show no significant impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Hasdeo River near Sarvamangla mandir, Korba

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 13.09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 19.09.2013)
1.	pH	pH	7.16	7.20	7.18
2.	Dissolved Oxygen	mg/lit	5.8	5.4	5.6
3.	B O D (3days at 27 ⁰ C)	mg/lit	2.2	2.8	2.6
4.	C O D	mg/lit	18.0	28.0	22.0
5.	TDS	mg/lit	320.0	334.0	328.0
6.	TS	mg/lit	405.0	430.0	418.0

Remark :- Results show marginal impact on water quality of river.

Water Sample Analysis Report

Name of Sampling Point - Bank River near Shankar Ghat, Ambikapur

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 19.09.2013)
1.	Appearance	-	S. Turbid	Turbid
2.	Odour	Threshold No.	Odour less	Odour less
3.	pH	Mg/L	7.04	7.98
4.	Total Solids	Mg/L	450.0	479.0
5.	Dissolved Solids	Mg/L	334.0	343.0
6.	Suspended Solids	Mg/L	116.0	136.0
7.	Dissolved Oxygen	Mg/L	6.9	5.8
8.	B.O.D. (3 days 27 ⁰ c)	Mg/L	2.8	23.0
9.	C.O.D.	Mg/L	16.0	48.0

Remark :- Results show significant impact on water quality of river in term of BOD.

Water Sample Analysis Report

Name of Sampling Point - Indrawati River at Near Old Road Bridge, Jagdalpur

S.No.	Parameter	Unit	Before Ganesh Idol Immersion (Date of Sample Collection 17. 09.2013)	During Ganesh Idol Immersion (Date of Sample Collection 18.09.2013)	After Ganesh Idol Immersion (Date of Sample Collection 19.09.2013)
1.	Temperature	⁰ C	24	24	24
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	Threshold No	Odorless	Odorless	Odorless
4.	pH	pH Unit	7.5	7.4	7.4
5.	Total Solids	Mg/L	697.0	731.0	719.0
6.	Dissolved Solids	--,,--	449.0	425.0	461.0
7.	Suspended Solids	--,,--	248.0	306.0	258.0
8.	Chloride (as Cl)	--,,--	54.0	68.0	64.0
9.	Total Alkalinity	--,,--	92.0	104.0	98.0
10.	Total Hardness	--,,--	86.0	98.0	92.0
11.	Calcium Hardness	--,,--	54.0	62.0	58.0
12.	Magnesium Hardness	--,,--	32.0	36.0	34.0
13.	D.O	--,,--	7.3	7.3	7.3
14.	B.O.D (3day 27 ⁰ C)	--,,--	2.4	2.4	2.2
15.	C.O.D.	--,,--	60.0	64.0	64.0
16.	Calcium	--,,--	21.6	24.8	23.2
17.	Magnesium	--,,--	7.80	8.78	8.29

Remark :- Results show no significant impact on water quality of river.