

## Water Sample Analysis Report

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

S.No.	Parameter	Unit	Before Durga Idol Immersion (Date of Sample Collection 11. 10.2013)	During Durga Idol Immersion (Date of Sample Collection 14. 10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	Temperature	°C	27.0	27.5	27.9
2.	Appearance	-	Slight Turbid	Turbid	Slight Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Units	7.6	8.05	7.79
5.	Conductivity	Mhos/cm	291.0	435.0	415.0
6.	Turbidity	NTU	29.0	138.0	99.0
7.	Total Solids	Mg/L	290.0	460.0	370.0
8.	Dissolved Solids	Mg/L	230.0	290.0	240.0
9.	Suspended Solid	Mg/L	60.0	170.0	130.0
10.	Nitrite Nitrogen	Mg/L	1.4	2.9	2.3
11.	Dissolved Oxygen	Mg/L	7.4	5.9	6.7
12.	B.O.D.	Mg/L	2.4	3.2	2.8
13.	C.O.D.	Mg/L	28.8	86.4	67.2
14.	Total Alkalinity	Mg/L	132.0	172.0	152.0
15.	Total Hardness	Mg/L	108.0	210.0	170.0
16.	Calcium Hardness	Mg/L	84.0	140.0	110.0
17.	Magnesium Hardness	Mg/L	24.0	70.0	60.0
18.	Sulphate	Mg/L	15.0	51.0	28.0
19.	Phosphate	Mg/L	1.2	3.9	3.1
20.	Chloride	Mg/L	21.0	68.0	54.0
21.	Calcium	Mg/L	33.6	56.0	44.0
22.	Magnesium	Mg/L	5.85	17.07	14.63
23.	Coliform	MPN/100 ml	-	900.0	300.0

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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	Temperature	<sup>o</sup> C	36.4	27.0	30.5
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	7.5	8.0	7.0
5.	Turbidity	NTU	105.0**	120.0	88.0
6.	Sp. Conductivity	Micro Mhos/cm	222.0	287.0	222.0
7.	Total Solids	Mg/L	244.0	302.0	210.0
8.	T. Dissolved Solids	--,,--	146.0	190.0	140.0
9.	Suspended Solids	--,,--	98.0	112.0	70.0
10.	Dissolved Oxygen (DO)	Mg/L	7.8	7.5	7.6
11.	C.O.D.	--,,--	30.0	40.0	30.0
12.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
13.	Copper (Cu)	--,,--	0.02	0.01	<0.01
14.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
15.	Zinc (Zn)	--,,--	0.01	0.04	0.03

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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	Temperature	<sup>0</sup> C	36.7	27.5	31.0
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	8.0	8.5	7.5
5.	Turbidity	NTU	112.0**	138.0	100.0
6.	Sp. Conductivity	Micro Mhos/cm	253.0	310.0	233.0
7.	Total Solids	Mg/L	278.0	331.0	225.0
8.	T. Dissolved Solids	--,,--	171.0	210.0	146.0
9.	Suspended Solids	--,,--	107.0	121.0	79.0
10.	Dissolved Oxygen (DO)	Mg/L	6.0	6.0	7.4
11.	C.O.D.	--,,--	40.0	50.0	40.0
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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	Temperature	<sup>0</sup> C	35.0	28.0	29.5
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	7.5	8.5	7.5
5.	Turbidity	NTU	111.0**	140.0	99.0
6.	Sp. Conductivity	Micro Mhos/cm	267.0	312.0	246.0
7.	Total Solids	Mg/L	282.0	341.0	226.0
8.	T. Dissolved Solids	--,,--	185.0	218.0	151.0
9.	Suspended Solids	--,,--	97.0	123.0	75.0
10.	Dissolved Oxygen (DO)	Mg/L	6.5	7.7	5.2
11.	C.O.D.	--,,--	40.0	60.0	40.0
12.	Chromium (Cr)	--,,--	<0.01	<0.01	<0.01
13.	Copper (Cu)	--,,--	0.02	0.02	<0.01
14.	Lead (Pb)	--,,--	<0.01	<0.01	<0.01
15.	Zinc (Zn)	--,,--	0.06	0.19	0.03

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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	Temperature	<sup>0</sup> C	35.0	25.5	30.0
2.	Appearance	-	Turbid	Turbid	Turbid
3.	Odour	-	Odourless	Odourless	Odourless
4.	pH	pH Unit	7.5	8.0	8.0
5.	Turbidity	NTU	103.0**	138.0	98.0
6.	Sp. Conductivity	Micro Mhos/cm	271.0	295.0	239.0
7.	Total Solids	Mg/L	285.0	319.0	215.0
8.	T. Dissolved Solids	--,,--	196.0	218.0	150.0
9.	Suspended Solids	--,,--	89.0	101.0	65.0
10.	Dissolved Oxygen (DO)	Mg/L	8.0	8.2	7.3
11.	C.O.D.	--,,--	35.0	50.0	40.0
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	<0.02
15.	Zinc (Zn)	--,,--	0.07	0.07	0.03

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 Marine Drive

S.No.	Parameter	Unit	Before Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	pH	pH Unit	7.34	7.41	7.42
2.	Turbidity	NTU	44.0	56.0	46.0
3.	Specific Conductivity	Micro Mhos	158.8	188.5	162.4
4.	Total Solid	Mg/L	247.0	280.0	250.0
5.	Total Dissolved Solid	Mg/L	167.0	186.0	164.0
6.	Dissolved Oxygen	Mg/L	7.2	6.7	7.2
7.	C.O.D.	Mg/L	27.88	35.85	31.87

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.

S.No.	Parameter	Unit	Before Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 15.10.2013)	After Durga Idol Immersion (Date of Sample Collection 17.10.2013)
1.	pH	pH Unit	7.40	7.50	7.44
2.	Turbidity	NTU	49.0	60.0	52.0
3.	Specific Conductivity	Micro Mhos	170.3	191.8	174.9
4.	Total Solid	Mg/L	264.0	295.0	269.0
5.	Total Dissolved Solid	Mg/L	175.0	190.0	178.0
6.	Dissolved Oxygen	Mg/L	7.2	6.6	7.1
7.	C.O.D.	Mg/L	31.87	39.84	35.85

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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 14.10.2013)	After Durga Idol Immersion (Date of Sample Collection 15.10.2013)
1.	Temperature	<sup>0</sup> C	27	27	27
2.	pH	pH	7.9	5.6	5.8
3.	Specific Conductivity	μ Mhos	320	410	402
4.	Total Solid	mg/lit	366	530	480
5.	Dissolved Solids	mg/lit	272	340	350
6.	Suspended Solids	mg/lit	94	190	130
7.	Dissolved Oxygen	mg/lit	7.6	5.6	5.6
8.	B O D ( 3days at 27 <sup>0</sup> C)	mg/lit	4.0	12	9
9.	C O D	mg/lit	58.0	120	90.0

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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 14.10.2013)	After Durga Idol Immersion (Date of Sample Collection 15.10.2013)
1.	Temperature	<sup>0</sup> C	26	26	26
2.	pH	pH	7.5	6.0	6.3
3.	Specific Conductivity	μ Mhos	340	358	348
4.	Total Solid	mg/lit	360	450	420
5.	Dissolved Solids	mg/lit	280	330	310
6.	Suspended Solids	mg/lit	80	120	110
7.	Dissolved Oxygen	mg/lit	7.4	6.1	6.2
8.	B O D ( 3days at 27 <sup>0</sup> C)	mg/lit	1.6	3.4	2.6
9.	C O D	mg/lit	30	58.08	50

Remark :- Results show marginal 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 Durga Idol Immersion (Date of Sample Collection 11.10.2013)	During Durga Idol Immersion (Date of Sample Collection 14.10.2013)	After Durga Idol Immersion (Date of Sample Collection 15.10.2013)
1.	pH	pH	7.18	7.24	7.20
2.	Dissolved Oxygen	mg/lit	6.0	5.6	5.8
3.	B O D ( 3days at 27 <sup>0</sup> C)	mg/lit	1.4	2.0	1.6
4.	C O D	mg/lit	16.0	32.0	26.0
5.	TDS	mg/lit	278.0	288.0	280.0
6.	TS	mg/lit	348.0	378.0	362.0



## Water Sample Analysis Report

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

S.No.	Parameter	Unit	Before Durga Idol Immersion (Date of Sample Collection 14.10.2013)	After Durga Idol Immersion (Date of Sample Collection 15.10.2013)
1.	Appearance	-	S. Turbid	Turbid
2.	Odour	Threshold No.	Odour less	Odour less
3.	pH	Mg/L	7.16	8.06
4.	Total Solids	Mg/L	416.0	468.0
5.	Dissolved Solids	Mg/L	329.0	348.0
6.	Suspended Solids	Mg/L	87.0	120.0
7.	Dissolved Oxygen	Mg/L	7.1	5.7
8.	B.O.D. (3 days 27 <sup>0</sup> c)	Mg/L	2.7	21.0
9.	C.O.D.	Mg/L	16.0	44.0

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 Durga Idol Immersion (Date of Sample Collection 12. 10.2013)	During Durga Idol Immersion (Date of Sample Collection 14.10.2013)	After Durga Idol Immersion (Date of Sample Collection 16.10.2013)
1.	Temperature	<sup>0</sup> C	25	24	25
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	658.0	791.0	718.0
6.	Dissolved Solids	--,,--	429.0	497.0	457.0
7.	Suspended Solids	--,,--	229.0	294.0	261.0
8.	Chloride (as Cl)	--,,--	54.0	70.0	60.0
9.	Total Alkalinity	--,,--	86.0	104.0	102.0
10.	Total Hardness	--,,--	84.0	98.0	98.0
11.	Calcium Hardness	--,,--	54.0	60.0	64.0
12.	Magnesium Hardness	--,,--	30.0	38.0	34.0
13.	D.O	--,,--	7.5	7.4	7.4
14.	B.O.D (3day 27 <sup>0</sup> C)	--,,--	2.2	2.4	2.3
15.	C.O.D.	--,,--	60.0	68.0	64.0
16.	Calcium	--,,--	21.6	24.0	25.6
17.	Magnesium	--,,--	7.31	9.26	8.29

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