

## NWMP Report- Year-2013 RO – Bilaspur

River Mahanadi at Kharod - U/s of Kharod.

(NWMP Code No 1100)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	20.0	28.0	28.0	32.0	34.0	30.0	30.0	30.0	30.0	30.0	29.0	29.0
2.	Appearance	-	Clear	Clear	Clear	Clear	Clear	H. T.	H. T.	H. T.	H.T.	Clear	Clear	Clear
3.	Odour		OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.5	7.5	7.5	8.0	8.0	7.8	8.0	8.0	8.0	7.5	7.5	7.5
5.	Turbidity	NTU/JTU	07.8	08.8	08.2	08.0	08.0	114.0	312.0	309.0	116.0	1.0	08.0	06
6.	Specific Conductivity	µS/cm	234.0	232.0	260.0	316.0	318.0	208.0	268.0	268.0	262.0	192.0	174.0	192.0
7.	Total Solids	Mg/L	230.0	232.0	234.0	232.0	230.0	248.0	298.0	296.0	281.0	253.0	202.0	184.0
8.	Dissolved Solids	Mg/L	204.0	204.0	204.0	204.0	204.0	136.0	178.0	180.0	170.0	165.0	160.0	146.0
9.	Suspended Solids	Mg/L	26.0	28.0	30.0	28.0	26.0	112.0	120.0	116.0	111.0	88.0	42.0	38.0
10.	Fixed Diss.Solids	Mg/L	84.0	74.0	76.0	76.0	76.0	82.0	84.0	86.0	96.0	84.0	62.0	48.0
11.	Ammonical Nitrogen	Mg/L	1.01	1.01	1.02	1.02	1.02	1.05	1.06	1.05	1.068	1.070	1.078	1.048
12.	Nitrate Nitrogen	Mg/L	1.47	1.48	1.46	1.45	1.44	1.40	1.50	1.50	1.512	1.510	1.417	1.217
13.	Nitrite Nitrogen	Mg/L	0.01	0.09	0.08	0.08	0.05	0.05	0.06	0.05	0.058	0.057	0.059	0.042
14.	Phosphate	Mg/L	1.77	1.78	1.79	1.78	1.78	1.22	1.24	1.24	1.252	1.250	1.254	1.25
15.	Chloride	Mg/L	22.0	22.0	28.0	32.0	34.0	37.5	67.5	68.58	88.0	45.0	46.0	32.5
16.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	30.0	30.0	28.0	28.0	28.8	42.5	44.5	44.0	44.0	40.0	34.0	32.0
17.	Coliform	MPN/100ml	18.0	28.0	8.0	14.0	24.0	140.0	1400.0	1412.0	900.0	280.0	108.0	68.0
18.	Dissolved Oxygen	Mg/L	7.8	7.2	7.4	6.8	6.9	6.8	7.2	7.5	7.5	7.0	7.5	7.5
19.	B.O.D.(3 day 27°C)	Mg/L	*	*	*	*	*	*	*	*	*	*	*	*
20.	C.O.D.	Mg/L	28.0	28.0	30.0	30.0	30.0	44.8	144.8	84.82	44.0	30.0	36.0	28.0
21.	Total Alkalinity	Mg/L	92.0	90.0	91.0	92.0	92.0	114.0	116.0	110.0	108.0	96.0	74.0	68.0
22.	Total Hardness	Mg/L	88.0	88.0	88.0	88.0	88.0	76.0	78.0	74.0	84.0	76.0	65.8	64.0
23.	Calcium Hardness	Mg/L	60.0	58.0	56.0	54.0	52.0	52.0	58.0	58.0	54.0	50.0	34.0	36.0
24.	Magnesium Hardness	Mg/L	28.0	30.0	32.0	34.0	36.0	24.0	20.0	16.0	30.0	26.0	31.8	28.0
25.	Calcium	Mg/L	24.0	23.2	22.4	21.6	20.8	20.8	23.2	23.2	21.6	20.0	13.6	14.4
26.	Magnesium	Mg/L	6.82	7.31	7.80	8.29	8.78	5.85	4.87	3.9	7.31	6.34	7.75	6.82
27.	Fluoride	Mg/L	0.18	0.18	0.18	0.18	0.18	0.04	0.04	0.04	0.041	0.043	0.048	0.04

## River Hasdeo at Champa - U/s at Champa Year – 2013

(NWMP Code No 1106)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov	Dec.
1.	Temperature	°C	20.5	28.0	27.5	32.0	34.0	30.0	30.0	29.5	29.5	30.0	29.0	28.5
2.	Appearance	-	Clear	Clear	Clear	Clear	Clear	H.T.	H.T.	H. T.	H.Turbid	H.Turbid	Clear	Clear
3.	Odour		OL	OL	OL	OL	OL	O. L.	O. L.	OL	OL	OL	OL	OL
4.	pH	pH Units	7.5	7.5	7.5	8.0	8.0	7.5	8.0	8.0	8.0	7.0	7.5	7.5
5.	Turbidity	NTU/JTU	09.9	09.7	08.7	05.7	06.7	190.0	446.0	436.0	080.0	40.0	7.3	06.0
6.	Specific Conductivity	µS/cm	222.0	220.0	245.0	314.0	334.0	238.0	274.0	210.0	222.0	210.0	152.0	146.0
7.	Total Solids	Mg/L	116.0	116.0	176.0	228.0	228.0	290.0	288.0	256.0	225.0	196.0	162.0	150.0
8.	Dissolved Solids	Mg/L	98.0	98.0	160.0	202.0	204.0	186.0	156.0	156.0	123.0	112.0	114.0	108.0
9.	Suspended Solids	Mg/L	18.0	18.0	16.0	26.0	24.0	104.0	132.0	100.0	102.0	84.0	48.0	42.0
10.	Fixed Diss.Solids	Mg/L	46.0	46.0	41.0	46.0	46.2	88.0	88.0	84.0	80.0	68.0	54.0	44.0
11.	Ammonical Nitrogen	Mg/L	1.03	1.01	1.02	1.02	1.02	1.17	1.17	1.19	1.192	1.191	1.91	1.72
12.	Nitrate Nitrogen	Mg/L	1.33	1.30	1.30	1.31	1.31	1.44	1.44	1.42	1.421	1.422	1.22	1.10
13.	Nitrite Nitrogen	Mg/L	0.09	0.09	0.09	0.09	0.08	0.09	0.09	0.09	0.098	0.094	0.084	0.081
14.	Phosphate	Mg/L	0.05	0.05	1.14	1.14	1.14	1.60	1.60	1.62	1.621	1.611	1.641	1.632
15.	Chloride	Mg/L	18.0	18.0	34.0	34.0	36.0	48.0	48.0	48.0	68.0	22.0	20.0	18.0
16.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	26.0	24.0	21.90	21.90	21.90	38.0	38.0	38.0	38.5	32.5	14.05	14.0
17.	Coliform	MPN/100ml	16.0	19.0	8.0	18.0	28.0	178.0	1178.0	198.0	178.0	128.0	84.0	60.0
18.	Dissolved Oxygen	Mg/L	8.2	7.8	7.1	5.5	6.9	6.8	6.8	7.0	7.5	8.0	7.0	7.0
19.	B.O.D.(3 day 27°C)	Mg/L	*	*	*	*	*	*	*	*	*	*	*	*
20.	C.O.D.	Mg/L	19.33	19.0	19.0	21.0	22.0	38.0	38.0	40.0	40.0	36.0	32.0	26.0
21.	Total Alkalinity	Mg/L	76.0	98.0	76.0	78.0	78.0	100.0	100.0	108.0	108.0	84.0	84.0	68.0
22.	Total Hardness	Mg/L	68.0	64.0	60.0	60.0	61.0	74.0	74.0	74.0	76.0	56.0	82.0	46.0
23.	Calcium Hardness	Mg/L	40.0	38.0	54.0	52.0	52.0	42.0	42.0	40.0	40.0	32.0	50.0	42.0
24.	Magnesium Hardness	Mg/L	28.0	26.0	6.0	8.0	9.0	32.0	32.0	34.0	36.0	24.0	32.0	04.0
25.	Calcium	Mg/L	16.0	15.2	21.6	20.8	20.8	16.8	16.8	16.0	16.0	12.8	20.0	16.8
26.	Magnesium	Mg/L	6.82	6.34	1.46	1.95	2.19	7.8	7.8	8.29	8.78	5.85	7.80	0.975
27.	Fluoride	Mg/L	0.18	0.16	0.43	0.43	0.03	0.12	0.12	0.12	0.12	0.10	0.91	0.710

## River Mahanadi at Sheorinarayan D/s Near Road Bridge

(NWMP Code No 1282)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	20.0			32.0			30.0			30.5		
2.	Appearance	-	Clear			S.Turbid			H. T.			S.T.		
3.	Odour		OL			OL			OL			OL		
4.	pH	pH Units	8.0			8.0			8.0			8.5		
5.	Turbidity	NTU/JTU	18.0			07.8			199.0			9.8		
6.	Specific Conductivity	µS/cm	416.0			318.0			355.0			318.0		
7.	Total Solids	Mg/L	285.0			294.0			388.0			329.0		
8.	Dissolved Solids	Mg/L	237.0			248.0			244.0			223.0		
9.	Suspended Solids	Mg/L	48.0			46.0			144.0			106.0		
10.	Fixed Diss.Solids	Mg/L	92.0			78.0			96.88			84.8		
11.	Ammonical Nitrogen	Mg/L	1.39			1.14			1.08			1.087		
12.	Nitrate Nitrogen	Mg/L	1.66			2.28			1.36			1.581		
13.	Nitrite Nitrogen	Mg/L	0.01			0.05			0.07			0.060		
14.	Phosphate	Mg/L	1.98			1.48			1.36			1.288		
15.	Chloride	Mg/L	62.0			46.0			76.0			68.0		
16.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	56.0			48.8			58.84			46.0		
17.	Coliform	MPN/100ml	48.0			62.0			1622.0			298.0		
18.	Dissolved Oxygen	Mg/L	6.0			5.6			6.8			7.0		
19.	B.O.D.(3 day 27°C)	Mg/L	*			*			*			*		
20.	C.O.D.	Mg/L	185.0			38.82			253.0			36.0		
21.	Total Alkalinity	Mg/L	102.0			148.0			112.0			96.0		
22.	Total Hardness	Mg/L	84.0			142.6			80.0			78.0		
23.	Calcium Hardness	Mg/L	60.0			74.0			34.0			46.0		
24.	Magnesium Hardness	Mg/L	24.0			68.0			46.0			32.0		
25.	Calcium	Mg/L	24.0			29.6			13.6			18.4		
26.	Magnesium	Mg/L	5.85			16.58			11.21			7.80		
27.	Fluoride	Mg/L	0.20			0.08			0.08			0.143		

**River Mahanadi at Balpur Village. A/c of Mand River**  
**(NWMP Code No 1467)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	20.0	28.0	28.0	32.0	34.0	30.0	30.0	30.0	30.0	30.0	29.0	28.0
2.	Appearance	-	Clear	Clear	Clear	Clear	Clear	H.T.	H. T.	H. T.	H.Turbid	I.Turbid	Clear	Clear
3.	Odour		OL	OL	OL	OL	OL	O. L.	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.5	7.5	7.5	7.8	7.8	7.8	7.8	7.5	7.5	7.5	7.5	7.5
5.	Turbidity	NTU/JTU	05.0	08.0	07.0	07.2	07.6	190.8	210.8	212.0	112.0	40.0	0.7	05
6.	Specific Conductivity	μS/cm	214.0	212.0	281.0	318.0	318.0	238.0	338.0	338.0	288.0	208.0	187.0	197.0
7.	Total Solids	Mg/L	218.0	220.0	222.0	228.0	226.0	290.0	340.0	346.0	296.0	200.0	200.0	178.0
8.	Dissolved Solids	Mg/L	198.0	198.0	198.0	198.0	198.0	160.0	208.0	218.0	188.0	136.0	152.0	142.0
9.	Suspended Solids	Mg/L	20.0	22.0	24.0	30.0	28.0	130.0	132.0	128.0	108.0	64.0	48.0	36.0
10.	Fixed Diss.Solids	Mg/L	54.0	54.0	54.0	54.6	54.0	84.0	79.0	86.46	84.0	62.0	64.0	44.0
11.	Ammonical Nitrogen	Mg/L	1.00	1.0	1.01	1.01	1.01	0.98	0.99	0.99	0.998	1.997	1.011	1.07
12.	Nitrate Nitrogen	Mg/L	1.52	1.52	1.52	1.51	1.50	1.46	1.44	1.48	1.486	1.480	1.021	1.011
13.	Nitrite Nitrogen	Mg/L	0.01	0.07	0.07	0.07	0.06	0.056	0.05	0.05	0.0582	0.058 0	0.048 1	1.038
14.	Phosphate	Mg/L	1.13	1.14	1.13	1.13	1.13	1.22	1.24	1.28	1.284	1.264	0.972	0.872
15.	Chloride	Mg/L	26.0	24.0	26.0	28.0	30.0	38.0	58.0	66.0	86.0	54.0	48.0	32.0
16.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	30.0	32.0	31.02	31.0	31.2	42.0	42.8	42.8	42.0	40.0	40.0	34.0
17.	Coliform	MPN/100ml	18.0	22.0	24.0	24.0	24.0	139.0	1839.0	1820.0	820.0	136.0	96.0	56.0
18.	Dissolved Oxygen	Mg/L	7.8	7.2	7.4	7.8	7.8	6.6	7.2	7.5	7.6	8.0	7.5	7.0
19.	B.O.D.(3 day 27°C)	Mg/L	*	*	*	*	*	*	*	*	*	*	*	*
20.	C.O.D.	Mg/L	26.0	26.0	30.0	30.0	30.0	44.0	88.0	78.0	40.0	32.0	36.0	28.0
21.	Total Alkalinity	Mg/L	98.0	98.0	98.0	98.0	98.0	118.0	114.0	114.0	114.0	90.0	94.0	74.0
22.	Total Hardness	Mg/L	86.0	84.0	84.6	84.0	84.6	78.0	78.88	78.0	88.0	88.0	78.0	72.0
23.	Calcium Hardness	Mg/L	62.0	60.0	60.8	60.0	60.0	46.0	42.0	38.0	48.0	42.0	36.0	34.0
24.	Magnesium Hardness	Mg/L	24.0	24.0	23.8	24.8	24.6	32.0	36.88	40.0	40.0	46.0	42.0	38.0
25.	Calcium	Mg/L	24.8	24.0	24.32	24.0	24.0	18.4	16.8	15.2	19.2	16.8	14.4	13.6
26.	Magnesium	Mg/L	5.85	5.85	5.80	6.04	6.0	7.8	8.99	9.75	9.75	11.21	10.24	9.26
27.	Fluoride	Mg/L	0.18	0.18	0.18	0.18	0.18	0.08	0.08	0.08	0.03	0.031	0.36	0.30

## Borewell water near Bannak Chowk I/A Sirgitti,Bilaspur

(NWMP Code No 1623)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C				29.0						29.0		
2.	Appearance	-				Clear						Clear		
3.	Odour					OL						OL		
4.	pH	pH Units				8.0						8.5		
5.	Turbidity	NTU/JTU				07.6						6.3		
6.	Specific Conductivity	µS/cm				1494.0						2038.0		
7.	Total Solids	Mg/L				994.0						1343.0		
8.	Dissolved Solids	Mg/L				970.0						1325.0		
9.	Suspended Solids	Mg/L				24.0						18.0		
10.	Fixed Diss.Solids	Mg/L				516.0						510.0		
11.	Ammonical Nitrogen	Mg/L				1.68						1.683		
12.	Nitrate Nitrogen	Mg/L				3.62						3.68		
13.	Nitrite Nitrogen	Mg/L				0.09						0.0938		
14.	Phosphate	Mg/L				3.49						3.59		
15.	Chloride	Mg/L				192.0						196.0		
16.	Sulphate (as SO <sub>4</sub> <sup>-</sup> )	Mg/L				58.0						62.0		
17.	Coliform	MPN/100ml				8.0						10.0		
18.	Dissolved Oxygen	Mg/L				5.8						4.5		
19.	B.O.D.(3 day 27°C)	Mg/L				*						*		
20.	C.O.D.	Mg/L				28.0						32.0		
21.	Total Alkalinity	Mg/L				346.0						90.0		
22.	Total Hardness	Mg/L				538.0						580.0		
23.	Calcium Hardness	Mg/L				154.0						388.0		
24.	Magnesium Hardness	Mg/L				384.0						192.0		
25.	Calcium	Mg/L				61.6						155.2		
26.	Magnesium	Mg/L				93.65						46.82		
27.	Fluoride	Mg/L				0.88						0.996		

Bore well near I/A Tifra Bilaspur - Bore well water

(NWMP Code No 1622)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C				29.0						29.5		
2.	Appearance	-				Clear						Clear		
3.	Odour					OL						OL		
4.	pH	pH Units				7.8						7.5		
5.	Turbidity	NTU/JTU				05.8						5.2		
6.	Specific Conductivity	µS/cm				670.0						572.0		
7.	Total Solids	Mg/L				1028.0						406.0		
8.	Dissolved Solids	Mg/L				1006.0						386.0		
9.	Suspended Solids	Mg/L				22.0						20.0		
10.	Fixed Diss.Solids	Mg/L				261.0						246.0		
11.	Ammonical Nitrogen	Mg/L				2.42						2.48		
12.	Nitrate Nitrogen	Mg/L				2.14						2.241		
13.	Nitrite Nitrogen	Mg/L				0.06						0.088		
14.	Phosphate	Mg/L				2.48						2.88		
15.	Chloride	Mg/L				46.0						48.0		
16.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L				48.0						48.5		
17.	Coliform	MPN/100ml				6.0						8.0		
18.	Dissolved Oxygen	Mg/L				5.7						4.0		
19.	B.O.D.(3 day 27°C)	Mg/L				*						*		
20.	C.O.D.	Mg/L				12.0						12.5		
21.	Total Alkalinity	Mg/L				342.0						348.0		
22.	Total Hardness	Mg/L				272.0						274.0		
23.	Calcium Hardness	Mg/L				60.0						60.5		
24.	Magnesium Hardness	Mg/L				212.0						213.5		
25.	Calcium	Mg/L				24.0						24.2		
26.	Magnesium	Mg/L				51.7						52.07		
27.	Fluoride	Mg/L				0.08						0.181		

**Sheonath River at Dagori Village. Near Satighat, Dagori**  
(NWMP Code No New)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C				31.5						27.8		
2.	Appearance	-				Clear						Clear		
3.	Odour	-				OL						OL		
4.	pH	pH Units				7.5						7.5		
5.	Turbidity	NTU/JTU				05.4						3.0		
6.	Specific Conductivity	µS/cm				592.0						354.0		
7.	Total Solids	Mg/L				371.0						248.0		
8.	Dissolved Solids	Mg/L				349.0						230.0		
9.	Suspended Solids	Mg/L				22.0						18.0		
10.	Fixed Dissolved Solids	Mg/L				86.0						61.0		
11.	Ammonical Nitrogen	Mg/L				1.21						1.92		
12.	Nitrate Nitrogen	Mg/L				1.40						1.44		
13.	Nitrite Nitrogen	Mg/L				0.07						0.078		
14.	Phosphate	Mg/L				1.28						1.38		
15.	Chloride	Mg/L				28.0						27.0		
16.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L				18.34						26.0		
17.	Coliform	MPN/100ml				24.0						124.0		
18.	Dissolved Oxygen	Mg/L				6.9						8.5		
19.	B.O.D.(3 day 27°C)	Mg/L				*						*		
20.	C.O.D.	Mg/L				32.0						30.0		
21.	Total Alkalinity	Mg/L				156.0						104.0		
22.	Total Hardness	Mg/L				134.0						136.0		
23.	Calcium Hardness	Mg/L				88.0						84.0		
24.	Magnesium Hardness	Mg/L				46.0						52.0		
25.	Calcium	Mg/L				35.2						33.6		
26.	Magnesium	Mg/L				11.2						12.68		
27.	Fluoride	Mg/L				0.10						0.141		

**River Arpa at Bilaspur**  
D/s of Bilaspur city at check dam outlet near deorikhurd Bilaspur.  
(NWMP Code No. 1848)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	Temperature	°C				32.5						30.5		
2	Appearance	-				Clear						S.T.		
3	Odour	-				U.P.						OL		
4	pH	pH Units				9.0						7.0		
5	Turbidity	NTU/JTU				05.4						88.0		
6	Specific Conductivity	µS/cm				1185.0						222.0		
7	Total Solids	Mg/L				967.0						210.0		
8	Dissolved Solids	Mg/L				785.0						140.0		
9	Suspended Solids	Mg/L				182.0						70.0		
10	Fixed Dissolved Solids	Mg/L				86.0						78.0		
11	Ammonical Nitrogen	Mg/L				1.10						1.36		
12	Nitrate Nitrogen	Mg/L				1.18						1.54		
13	Nitrite Nitrogen	Mg/L				0.08						0.081		
14	Phosphate	Mg/L				1.40						1.31		
15	Chloride	Mg/L				67.0						32.0		
16	Sulphate (as SO <sub>4</sub> <sup>-</sup> )	Mg/L				4.88						36.0		
17	Coliform	MPN/100ml				2600.0						-		
18	Dissolved Oxygen	Mg/L				4.6						7.6		
19	B.O.D.(3 day 27°C)	Mg/L				*						*		
20	C.O.D.	Mg/L				92.0						30.0		
21	Total Alkalinity	Mg/L				132.0						84.0		
22	Total Hardness	Mg/L				316.0						68.0		
23	Calcium Hardness	Mg/L				150.0						36.0		
24	Magnesium Hardness	Mg/L				166.0						32.0		
25	Calcium	Mg/L				60.0						14.4		
26	Magnesium	Mg/L				40.48						7.80		
27	Fluoride	Mg/L				0.28						0.14		



# Natural Water Analysis Report- Year-2013 RO – Durg-Bhilai

## **Sheonath River at Rajnandgaon . U/S Near water supply intake well. (NWMP Code No 1107)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	25.0	25.0	26.0	28.0	28.0	28.0	27.0	27.0	27.0	26.0	26	24.0
2.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.4	7.4	7.4	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.2	7.4
5.	Coliform	MPN/100ml	110.0	110.0	150.0	120.0	120.0	210.0	1600.0	2400.0	2400.0	210.0	120	120.0
6.	Total Solid	Mg/L	340.0	320.0	330.0	320.0	340.0	360.0	350.0	340.0	330.0	380.0	330.0	310.0
7.	Dissolved Solids	Mg/L	280.0	260.0	270.0	260.0	270.0	280.0	270.0	270.0	250.0	300.0	260.0	250.0
8.	Suspended Solids	Mg/L	60.0	60.0	60.0	60.0	70.0	60.0	80.0	70.0	80.0	80.0	70.0	60.0
9.	Dissolved Oxygen	Mg/L	7.4	7.3	7.3	7.4	7.6	7.5	7.6	7.6	7.5	7.4	7.3	7.3
10.	B.O.D.(3 day 27°C)	Mg/L	1.4	1.4	1.3	1.4	1.6	1.5	1.8	1.8	1.8	1.5	1.4	1.5
11.	C O D	Mg/L	19.6	19.2	19.36	18.18	20.0	28.20	29.4	28.56	29.4	30.0	19.36	20.0
12.	Chloride	Mg/L	24.0	24.0	25.0	24.0	25.0	27.0	28.0	25.0	30.0	32.0	24.0	23.0
13.	Total Alkalinity	Mg/L	98.0	106.0	108.0	104.0	106.0	110.0	110.0	108.0	102.0	104.0	104.0	104.0
14.	Total Hardness	Mg/L	84.0	90.0	92.0	94.0	96.0	98.0	98.0	86.0	104.0	104.0	100.0	94.0
15.	Calcium Hardness	Mg/L	40.0	44.0	48.0	48.0	50.0	52.0	52.0	48.0	56.0	56.0	54.0	50.0
16.	Magnesium Hardness	Mg/L	44.0	46.0	44.0	46.0	46.0	46.0	46.0	38.0	48.0	48.0	46.0	44.0
17.	Ammonical Nitrogen	Mg/L	0.40	0.35	0.35	0.40	0.40	0.50	0.45	0.55	0.50	0.65	0.50	0.45
18.	Nitrate Nitrogen	Mg/L	0.35	0.25	0.25	0.35	0.40	0.45	0.50	0.50	0.55	0.60	0.40	0.35
19.	Nitrite Nitrogen	Mg/L	0.02	0.01	0.01	0.02	0.02	0.04	0.04	0.03	0.030	0.024	0.020	0.016
20.	Phosphate	Mg/L	1.0	1.0	0.7	0.7	0.8	0.9	1.0	1.4	1.4	1.4	1.0	0.9
21.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	14.0	9.0	7.0	8.0	8.0	10.0	10.0	13.0	13.0	14.0	10.0	11.0
22.	Calcium	Mg/L	16.0	17.6	19.2	19.2	20.0	20.8	20.8	19.2	22.4	22.4	21.6	20.0
23.	Magnesium	Mg/L	10.73	11.21	10.73	11.21	11.21	11.21	11.21	9.26	11.70	11.70	11.21	10.73

## River Sheonath at Durg Near W/s intake well.

(NWPM Code No 1845)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24.0	25.0	26	28.0	28.0	28.0	26.0	26.0	27.0	27.0	-	24.0
2.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.4	7.5	7.5	7.5	7.5	7.5	7.4	7.5	7.5	7.4	7.4	7.3
5.	Coliform	MPN/100ml	120.0	110.0	150.0	120.0	120.0	210.0	1600.0	2400.0	2400.0	210.0	210.0	120.0
6.	Total Solid	Mg/L	370.0	360.0	340.0	330.0	340.0	360.0	370.0	350.0	340.0	360.0	300.0	280.0
7.	Dissolved Solids	Mg/L	290.0	290.0	280.0	270.0	270.0	280.0	260.0	270.0	260.0	290.0	240.0	230.0
8.	Suspended Solids	Mg/L	80.0	70.0	60.0	60.0	70.0	80.0	90.0	80.0	80.0	70.0	60.0	50.0
9.	Dissolved Oxygen	Mg/L	7.4	7.5	7.4	7.4	7.5	7.6	7.5	7.6	7.6	7.5	7.6	7.3
10.	B.O.D.(3 day 27°C)	Mg/L	1.5	1.4	1.3	1.4	1.5	1.6	1.8	1.8	1.9	1.6	1.4	1.5
11.	C O D	Mg/L	19.4	20.0	29.04	28.2	20.0	28.20	30.0	39.2	39.2	28.8	29.04	30.0
12.	Chloride	Mg/L	26.0	27.0	25.0	26.0	27.0	32.0	36.0	36.0	34.0	34.0	33.0	25.0
13.	Total Alkalinity	Mg/L	132.0	128.0	102.0	104.0	110.0	114.0	116.0	120.0	110.0	112.0	124.0	108.0
14.	Total Hardness	Mg/L	98.0	96.0	94.0	96.0	98.0	100.0	102.0	110.0	104.0	108.0	104.0	96.0
15.	Calcium Hardness	Mg/L	46.0	50.0	48.0	50.0	52.0	52.0	54.0	52.0	56.0	58.0	56.0	50.0
16.	Magnesium Hardness	Mg/L	5.7	46.0	46.0	46.0	46.0	48.0	48.0	48.0	48.0	50.0	48.0	46.0
17.	Ammonical Nitrogen	Mg/L	0.50	0.40	0.30	0.40	0.50	0.50	0.50	0.45	0.55	0.55	0.40	0.45
18.	Nitrate Nitrogen	Mg/L	0.40	0.45	0.25	0.45	0.55	0.55	0.45	0.40	0.50	0.45	0.35	0.40
19.	Nitrite Nitrogen	Mg/L	0.02	0.02	0.02	0.03	0.03	0.04	0.03	0.03	0.040	0.030	0.020	0.020
20.	Phosphate	Mg/L	0.9	0.8	0.8	1.0	1.0	1.0	1.4	1.8	1.6	1.2	1.2	1.0
21.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	13.0	9.0	10.0	11.0	12.0	12.0	14.0	14.0	14.0	16.0	15.0	10.0
22.	Calcium	Mg/L	18.4	20.0	19.2	20.0	20.8	20.8	21.6	20.8	22.4	23.2	22.4	20.0
23.	Magnesium	Mg/L	12.68	11.21	11.21	11.21	11.21	11.70	11.70	11.70	11.70	12.19	11.70	11.21

## River Kharoon at Kumhari, Durg After confluence of Khapri nalla

**(NWMP Code No 1846)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	22	24	26	28.0	28.0	29.0	27.0	27.0	27	27.0	26.0	24.0
2.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.5	7.5	7.5	7.5	7.7	7.6	7.5	7.7	7.7	7.5	7.5	7.5
5.	Coliform	MPN/100ml	240.0	210.0	150.0	150.0	210.0	360.0	1600.0	2400.0	2400.0	410.0	410.0	220.0
6.	Total Solid	Mg/L	390.0	370.0	360.0	350.0	370.0	390.0	390.0	380.0	380.0	380.0	360.0	340.0
7.	Dissolved Solids	Mg/L	310.0	300.0	280.0	280.0	280.0	300.0	300.0	290.0	290.0	290.0	280.0	270.0
8.	Suspended Solids	Mg/L	80.0	70.0	80.0	70.0	90.0	90.0	90.0	90.0	90.0	90.0	80.0	70.0
9.	Dissolved Oxygen	Mg/L	7.5	7.6	7.6	7.5	7.7	6.4	7.6	7.8	7.8	7.6	7.6	7.5
10.	B.O.D.(3 day 27°C)	Mg/L	1.7	1.7	1.8	1.7	1.7	1.9	1.7	2.0	2.1	1.9	1.8	1.7
11.	C O D	Mg/L	40.0	38.4	38.4	37.6	40.0	37.6	39.2	47.6	60.0	38.4	38.7	40.0
12.	Chloride	Mg/L	43.0	45.0	40.0	38.0	37.0	38.0	40.0	39.0	48.0	36.0	34.0	35.0
13.	Total Alkalinity	Mg/L	140.0	132.0	110.0	110.0	116.0	114.0	116.0	132.0	136.0	128.0	114.0	112.0
14.	Total Hardness	Mg/L	112.0	104.0	106.0	104.0	102.0	102.0	102.0	106.0	110.0	114.0	106.0	102.0
15.	Calcium Hardness	Mg/L	52.0	54.0	56.0	56.0	56.0	46.0	58.0	64.0	64.0	62.0	60.0	54.0
16.	Magnesium Hardness	Mg/L	60.0	50.0	50.0	48.0	46.0	0.50	44.0	42.0	46.0	52.0	46.0	48.0
17.	Ammonical Nitrogen	Mg/L	0.65	50.0	0.40	0.35	0.45	0.55	0.50	0.60	0.65	0.60	0.55	0.50
18.	Nitrate Nitrogen	Mg/L	0.55	40.0	0.45	0.40	0.50	0.50	0.45	0.55	0.55	0.50	0.45	0.45
19.	Nitrite Nitrogen	Mg/L	0.02	0.02	0.03	0.04	0.06	0.06	0.04	0.04	0.040	0.040	0.03	0.030
20.	Phosphate	Mg/L	1.5	1.2	1.2	1.0	1.2	1.2	1.0	1.8	1.8	1.2	1.6	1.4
21.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	16.0	14.0	14.0	12.0	14.0	14.0	14.0	19.0	16.0	18.0	18.0	16.0
22.	Calcium	Mg/L	20.0	21.6	22.4	22.4	22.4	22.4	23.2	25.6	25.6	24.8	24.0	21.6
23.	Magnesium	Mg/L	14.63	12.19	12.19	11.70	11.21	11.21	10.73	10.24	11.21	12.68	11.2	11.70
24.														

**River Kharoon at Kumhari, Durg Before confluence of Khapri nalla  
Near Durg – Raipur Road Bridge**

(NWMP Code No 1847)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24	24	26	28.0	28.0	29.0	27.0	27.0	27.0	27.0	26.0	24.0
1.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
2.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
3.	pH	pH Units	7.6	7.6	7.4	7.5	7.5	7.6	7.6	7.6	7.6	7.4	7.4	7.5
2.	Coliform	MPN/100ml	210.0	150.0	150.0	210.0	210.0	360.0	1600.0	2400.0	2400.0	410.0	210.0	210.0
3.	Total Solid	Mg/L	370.0	350.0	350.0	330.0	360.0	380.0	390.0	370.0	380.0	360.0	340.0	330.0
4.	Dissolved Solids	Mg/L	300.0	280.0	270.0	260.0	270.0	290.0	300.0	290.0	290.0	290.0	270.0	260.0
5.	Suspended Solids	Mg/L	70.0	70.0	80.0	70.0	90.0	90.0	90.0	80.0	90.0	70.0	70.0	70.0
6.	Dissolved Oxygen	Mg/L	7.4	7.5	7.3	7.6	7.6	7.6	7.6	7.8	7.7	7.6	7.6	7.5
7.	B.O.D.(3 day 27°C)	Mg/L	1.6	1.6	1.6	1.6	1.6	1.7	1.8	1.8	1.9	1.6	1.6	1.7
8.	C O D	Mg/L	29.4	28.8	28.8	37.6	30.0	37.6	39.2	38.08	40.0	28.8	29.04	30.0
9.	Chloride	Mg/L	46.0	47.0	38.0	42.0	34.0	34.0	42.0	39.0	38.0	34.0	31.0	32.0
10.	Total Alkalinity	Mg/L	134.0	130.0	108.0	112.0	112.0	114.0	120.0	128.0	126.0	124.0	112.0	108.0
11.	Total Hardness	Mg/L	106.0	104.0	102.0	100.0	100.0	102.0	102.0	106.0	106.0	112.0	100.0	98.0
12.	Calcium Hardness	Mg/L	48.0	54.0	54.0	54.0	54.0	56.0	58.0	64.0	64.0	60.0	56.0	52.0
13.	Magnesium Hardness	Mg/L	58.0	50.0	48.0	46.0	46.0	46.0	44.0	42.0	42.0	56.0	44.0	46.0
14.	Ammonical Nitrogen	Mg/L	0.60	0.50	0.45	0.40	0.45	0.50	0.55	0.55	0.50	0.55	0.50	0.45
15.	Nitrate Nitrogen	Mg/L	0.50	0.40	0.30	0.35	0.40	0.45	0.50	0.50	0.55	0.50	0.40	0.35
16.	Nitrite Nitrogen	Mg/L	0.2	0.02	0.03	0.04	0.06	0.05	0.06	0.03	0.040	0.016	0.030	0.024
17.	Phosphate	Mg/L	1.3	1.1	1.4	1.0	1.0	1.2	1.0	1.8	1.6	1.2	1.4	1.2
18.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	15.0	12.0	13.0	12.0	14.0	14.0	14.0	18.0	16.0	16.0	15.0	14.0
19.	Calcium	Mg/L	19.2	21.6	21.6	21.6	21.6	22.4	23.2	25.6	25.6	24.0	22.4	20.8
20.	Magnesium	Mg/L	14.14	12.19	11.70	11.21	11.21	11.21	10.73	10.24	10.24	13.65	10.73	11.21

## Sheonath River at Rajnandgaon – D/s at Mohad Village

(NWMP Code No 3167)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct	Nov.	Dec.
1.	Temperature	°C	25.0	25.0	26	28.0	28.0	28.0	27.0	27.0	27.0	26.0	26.0	24.0
2.	Appearance	NTU	clear	Greenish	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
3.	Odour	Threshold No.	OL	Turbid	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.5	6.6	7.5	7.5	7.6	7.6	7.6	7.6	7.5	7.5	7.3	7.4
5.	Coliform	MPN/100ml	240.0	210.0	210.0	210.0	210.0	210.0	1600.0	2400.0	2400.0	410.0	360.0	210.0
6.	Total Solid	Mg/L	380.0	360.0	350.0	340.0	360.0	370.0	360.0	340.0	330.0	390.0	340.0	320.0
7.	Dissolved Solids	Mg/L	290.0	280.0	280.0	270.0	280.0	290.0	280.0	270.0	250.0	310.0	260.0	250.0
8.	Suspended Solids	Mg/L	90.0	80.0	70.0	70.0	80.0	80.0	80.0	70.0	80.0	80.0	80.0	70.0
9.	Dissolved Oxygen	Mg/L	7.50	6.8	6.8	7.7	7.7	7.6	7.6	7.6	7.5	7.6	7.4	7.5
10.	B.O.D.(3 day 27°C)	Mg/L	1.4	1.6	1.5	1.7	1.8	1.8	1.9	1.8	1.8	1.6	1.4	1.6
11.	C O D	Mg/L	29.4	28.8	29.04	28.2	20.0	28.20	29.4	29.04	29.4	30.0	19.36	20.0
12.	Chloride	Mg/L	26.0	35.0	27.0	28.0	27.0	28.0	30.0	25.0	32.0	34.0	22.0	24.0
13.	Total Alkalinity	Mg/L	102.0	118.0	112.0	114.0	110.0	112.0	112.0	110.0	106.0	106.0	106.0	106.0
14.	Total Hardness	Mg/L	88.0	98.0	96.0	94.0	96.0	100.0	98.0	86.0	104.0	106.0	100.0	96.0
15.	Calcium Hardness	Mg/L	42.0	50.0	50.0	48.0	50.0	52.0	52.0	48.0	56.0	58.0	54.0	52.0
16.	Magnesium Hardness	Mg/L	46.0	48.0	46.0	46.0	46.0	48.0	46.0	38.0	48.0	48.0	46.0	44.0
17.	Ammonical Nitrogen	Mg/L	0.40	0.50	0.40	0.40	0.40	0.50	0.45	0.60	0.50	0.65	0.50	0.45
18.	Nitrate Nitrogen	Mg/L	0.45	0.40	0.30	0.35	0.45	0.45	0.50	0.55	0.55	0.60	0.40	0.35
19.	Nitrite Nitrogen	Mg/L	0.03	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.040	0.020	0.020	0.020
20.	Phosphate	Mg/L	1.1	1.0	1.0	1.0	1.0	0.1	1.0	1.3	1.4	1.5	1.0	0.9
21.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	14.0	14.0	12.0	11.0	8.0	10.0	10.0	12.0	13.0	15.0	10.0	11.0
22.	Calcium	Mg/L	16.8	20.0	20.0	11.2	20.0	20.8	20.8	19.2	22.4	23.2	21.5	20.8
23.	Magnesium	Mg/L	11.21	11.70	11.21	11.21	11.21	11.70	11.21	9.26	11.70	11.70	11.21	10.73 Fjhin

## River Sheonath at Jhingri Village A/C of Samoda Nalla

(NWMP Code No 3166)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24.0	25.0	26	28.0	28.0	28.0	26.0	-	26	27.0	26.0	25.0
2.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Muddy	Clear	Clear
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.4	7.6	7.6	7.6	7.7	7.0	7.5	7.5	7.5	7.5	7.5	7.4
5.	Coliform	MPN/100ml	240.0	220.0	240.0	240.0	220.0	480.0	1600.0	2400.0	1600.0	410.0	410.0	210.0
6.	Total Solid	Mg/L	390.0	370.0	380.0	380.0	390.0	410.0	420.0	390.0	420.0	400.0	390.0	350.0
7.	Dissolved Solids	Mg/L	300.0	280.0	280.0	290.0	300.0	310.0	320.0	300.0	320.0	320.0	300.0	270.0
8.	Suspended Solids	Mg/L	90.0	90.0	100.0	90.0	90.0	100.0	100.0	90.0	100.0	80.0	90.0	80.0
9.	Dissolved Oxygen	Mg/L	7.7	7.8	7.7	7.8	7.8	7.8	7.6	8.0	7.6	7.6	7.6	7.4
10.	B.O.D.(3 day 27°C)	Mg/L	1.8	1.8	1.8	1.8	1.9	1.9	1.9	2.0	1.9	1.8	1.8	1.8
11.	C O D	Mg/L	38.4	48.0	38.72	37.6	40.0	47.0	40.0	47.6	40.0	48.0	48.4	40.0
12.	Chloride	Mg/L	47.0	45.0	48.0	52.0	49.0	52.0	54.0	44.0	54.0	42.0	38.0	37.0
13.	Total Alkalinity	Mg/L	132.0	130.0	134.0	138.0	136.0	140.0	130.0	144.0	130.0	148.0	130.0	134.0
14.	Total Hardness	Mg/L	118.0	116.0	118.0	120.0	118.0	120.0	110.0	126.0	110.0	124.0	118.0	120.0
15.	Calcium Hardness	Mg/L	58.0	54.0	58.0	62.0	64.0	64.0	60.0	68.0	60.0	64.0	64.0	58.0
16.	Magnesium Hardness	Mg/L	60.0	58.0	60.0	58.0	54.0	56.0	50.0	58.0	50.0	60.0	54.0	62.0
17.	Ammonical Nitrogen	Mg/L	0.45	0.50	0.50	0.50	0.55	0.65	0.65	0.65	0.65	0.65	0.45	0.5
18.	Nitrate Nitrogen	Mg/L	0.50	0.50	0.40	0.45	0.50	0.50	0.55	0.45	0.55	0.55	0.40	0.40
19.	Nitrite Nitrogen	Mg/L	0.04	0.06	0.06	0.06	0.05	0.06	0.05	0.04	0.050	0.040	0.024	0.030
20.	Phosphate	Mg/L	1.3	1.3	1.3	1.0	1.0	1.2	1.4	1.8	1.4	1.6	1.3	1.4
21.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	17.0	14.0	14.0	12.0	13.0	14.0	15.0	18.0	15.0	18.0	17.0	15.0
22.	Calcium	Mg/L	23.2	23.2	23.2	24.8	25.6	25.6	240.6	27.2	240.6	25.6	25.6	23.2
23.	Magnesium	Mg/L	14.63	14.14	14.63	14.14	13.17	13.65	12.19	14.14	12.19	14.63	13.17	15.2

**Nehru Nagar Talab, Bhilai**  
**Talab Water**  
**(NWMP Code No 3164)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	27.0	27.0	29.0	30.0	30.0	30.0	30.0	27.0	28.0	28.0	26.0	27.0
2.	Appearance	NTU	Clear	Clear	Clear	Clear	Clear	Clear	Muddy	Muddy	Muddy	Clear	Clear	Clear
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.4	7.4	7.5	7.4	7.7	7.7	7.8	6.8	6.7	6.8	6.7	7.4
5.	Coliform	MPN/100ml	460.0	210.0	460.0	460.0	210.0	210.0	1600.0	1600.0	1600.0	480.0	410.0	360.0
6.	Total Solid	Mg/L	400.0	380.0	400.0	380.0	400.0	410.0	450.0	420.0	430.0	390.0	430.0	410.0
7.	Dissolved Solids	Mg/L	310.0	290.0	310.0	300.0	310.0	320.0	340.0	330.0	340.0	300.0	330.0	320.0
8.	Suspended Solids	Mg/L	90.0	90.0	90.0	80.0	90.0	90.0	110.0	90.0	90.0	90.0	100.0	90.0
9.	Dissolved Oxygen	Mg/L	6.7	6.8	6.6	6.5	7.7	7.8	7.8	6.4	6.6	6.7	6.4	6.7
10.	B.O.D.(3 day 27°C)	Mg/L	18.0	22.0	22.0	18.0	16.0	18.0	16.0	22.0	18.0	20.0	18.0	18.0
11.	C O D	Mg/L	190.0	175.0	180.2	169.2	160.0	169.2	137.2	211.2	186.2	201.6	154.8 8	163.2
12.	Chloride	Mg/L	72.0	74.0	77.0	75.0	72.0	75.0	68.0	72.0	70.0	72.0	68.0	70.0
13.	Total Alkalinity	Mg/L	174.0	168.0	172.0	168.0	164.0	166.0	144.0	172.0	172.0	172.0	168.0	176.0
14.	Total Hardness	Mg/L	134.0	132.0	130.0	130.0	128.0	128.0	124.0	148.0	148.0	130.0	130.0	128.0
15.	Calcium Hardness	Mg/L	82.0	80.0	80.0	76.0	72.0	72.0	72.0	94.0	94.0	84.0	86.0	86.0
16.	Magnesium Hardness	Mg/L	52.0	5.2	50.0	54.0	56.0	56.0	52.0	52.0	54.0	46.0	44.0	42.0
17.	Ammonical Nitrogen	Mg/L	0.45	0.90	1.90	1.80	1.7	1.8	1.6	0.80	0.60	0.75	0.90	0.70
18.	Nitrate Nitrogen	Mg/L	0.55	0.80	1.20	1.10	1.0	1.0	1.0	0.55	0.55	0.60	0.60	0.60
19.	Nitrite Nitrogen	Mg/L	0.04	0.06	0.06	0.06	0.06	0.07	0.06	0.04	0.040	0.030	0.030	0.024
20.	Phosphate	Mg/L	1.6	2.0	2.0	1.8	2.0	2.0	1.8	2.0	2.0	1.8	2.0	1.6
21.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	26.0	24.0	22.0	19.0	18.0	18.0	18.0	24.0	22.0	24.0	28.0	28.0
22.	Calcium	Mg/L	32.8	32.0	32.0	30.4	28.8	28.8	28.8	37.6	37.6	33.6	26.4	34.4
23.	Magnesium	Mg/L	12.68	12.68	12.19	13.17	13.65	13.65	12.68	12.68	13.17	11.21	10.73	10.24

**Hitkasa Tailing Dam, of M/s Rajhara Iron Ore Mines  
Hitkasa Tailing Reservoir**

**(NWMP Code No 3163)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	25.0	26.0	28	28.0	29.0	28.0	28.0	28.0	26.0	26.0	26.0	23.0
1.	Appearance	NTU	Turbid	Turbid	Turbid	Turbid	Turbid	Clear	Muddy	Turbid	Turbid	Clear	Clear	Clear
2.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
3.	pH	pH Units	7.6	7.5	7.6	7.6	7.6	6.5	6.4	7.3	6.5	6.6	7.3	7.4
2.	Coliform	MPN/100ml	240.0	460.0	260.0	150.0	210.0	210.0	1600.0	460.0	460.0	360.0	360.0	210.0
3.	Total Solid	Mg/L	390.0	380.0	390.0	390.0	390.0	410.0	480.0	450.0	410.0	370.0	320.0	330.0
4.	Dissolved Solids	Mg/L	290.0	290.0	290.0	310.0	300.0	310.0	360.0	340.0	310.0	290.0	260.0	270.0
5.	Suspended Solids	Mg/L	100.0	90.0	100.0	80.0	90.0	100.0	120.0	110.0	100.0	80.0	70.0	60.0
6.	Dissolved Oxygen	Mg/L	6.0	6.1	6.0	6.2	6.4	6.5	6.3	6.4	6.2	6.0	7.4	6.0
7.	B.O.D.(3 day 27°C)	Mg/L	9.0	11.0	12.0	10.0	12.0	14.0	15.0	13.0	8.0	7.6	7.6	7.8
8.	C O D	Mg/L	125.64	109.0	125.64	112.8	110.0	112.0	117.6	127.0	117.6	125.8 4	125.8 4	124.8 2
9.	Chloride	Mg/L	58.0	6.2	60.0	58.0	62.0	65.0	68.0	52.0	52.0	56.0	57.0	58.0
10.	Total Alkalinity	Mg/L	126.0	128.0	130.0	128.0	130.0	125.0	128.0	128.0	120.0	124.0	122.0	122.0
11.	Total Hardness	Mg/L	118.0	120.0	118.0	114.0	116.0	118.0	120.0	112.0	114.0	106.0	102.0	104.0
12.	Calcium Hardness	Mg/L	62.0	70.0	70.0	68.0	68.0	68.0	70.0	64.0	62.0	58.0	60.0	62.0
13.	Magnesium Hardness	Mg/L	56.0	50.0	48.0	46.0	48.0	50.0	50.0	48.0	52.0	48.0	42.0	42.0
14.	Ammonical Nitrogen	Mg/L	0.55	0.55	0.50	0.50	0.50	100.0	1.0	0.90	0.80	0.80	0.50	0.50
15.	Nitrate Nitrogen	Mg/L	0.65	0.40	0.45	0.40	0.55	0.65	0.70	0.45	0.65	0.60	0.40	0.45
16.	Nitrite Nitrogen	Mg/L	0.04	0.06	0.06	0.06	0.06	0.06	0.05	0.03	0.040	0.040	0.024	0.030
17.	Phosphate	Mg/L	2.0	7.0	6.0	6.0	6.0	6.0	7.0	5.0	3.0	2.4	1.6	1.6
18.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	16.0	18.0	14.0	12.0	14.0	16.0	15.0	16.0	20.0	16.0	14.0	13.0
19.	Calcium	Mg/L	24.0	28.0	28.0	27.0	27.0	27.2	28.0	25.6	24.8	23.2	24.0	24.8
20.	Magnesium	Mg/L	13.65	1.21	11.70	11.21	11.70	12.19	12.19	11.70	12.68	11.70	10.24	10.24



**Hand Pump Water, Nepali Mohalla Shankar Nagar,  
H.I.A., Bhilai**

**(NWMP Code No 3171)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C							30.0					26.0
4.	Appearance	NTU							Clear					Clear
5.	Odour	Threshold No.							OL					OL
6.	pH	pH Units							7.4					7.5
2.	Coliform	MPN/100ml							8.0					9.0
3.	Total Solid	Mg/L							150.0					170.0
4.	Dissolved Solids	Mg/L							120.0					130.0
5.	Suspended Solids	Mg/L							30.0					40.0
6.	Dissolved Oxygen	Mg/L							7.4					7.3
7.	B.O.D.(3 day 27°C)	Mg/L							0.9					1.1
8.	C O D	Mg/L							19.6					38.72
9.	Chloride	Mg/L							28.0					56.0
10.	Total Alkalinity	Mg/L							102.0					122.0
11.	Total Hardness	Mg/L							92.0					116.0
12.	Calcium Hardness	Mg/L							52.0					64.0
13.	Magnesium Hardness	Mg/L							40.0					52.0
14.	Ammonical Nitrogen	Mg/L							0.30					0.55
15.	Nitrate Nitrogen	Mg/L							0.25					0.20
16.	Nitrite Nitrogen	Mg/L							0.02					0.016
17.	Phosphate	Mg/L							0.6					0.9
18.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L							8.0					11.0
19.	Calcium	Mg/L							20.8					25.6
20.	Magnesium	Mg/L							9.75					12.66

## NWMP Report Year -2013 Regional Office - Jagdalpur

### 1. Comparative Statement of Indravati River at Nelasnar Dantewada . After confluence of Dantewada River. (NWMP Code No. 1854)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	18			29			21			25		
2.	Appearance	-	Clear			Clear			Muddy			Clear		
3.	Odour	Threshold No.	OL			OL			OL			OL		
4.	pH	pH Units	7.7			7.5			7.4			7.5		
5.	Total Solids	Mg/L	203.0			213.0			794.0			236.0		
6.	Dissolved Solids	Mg/L	156.0			167.0			556.0			178.0		
7.	Suspended Solids	Mg/L	47.0			46.0			238.0			58.0		
8.	Chloride (as Cl)	Mg/L	28.0			30.0			56.0			34.0		
9.	Total Alkalinity		32.0			38.0			74.0			52.0		
10.	Total Hardness	Mg/L	30.0			36.0			86.0			48.0		
11.	Calcium Hardness	Mg/L	18.0			22.0			54.0			28.0		
12.	Magnesium Hardness	Mg/L	12.0			14.0			32.0			20.0		
13.	D. O	Mg/L	7.6			7.3			7.3			7.5		
14.	B.O.D.(3 day 27°C)	Mg/L	1.0			1.0			1.8			1.2		
15.	C.O.D.	Mg/L	44.0			44.0			64.0			48.0		
16.	Coliform	MPN/100ml	04.0			4.0			12.0			8.0		
17.	Calcium	Mg/L	7.2			8.8			21.6			11.2		
18.	Magnesium	Mg/L	2.92			3.41			7.80			4.87		

**2. Comparative Statement of Dantewada River/ Shankni River A/C of Dankni River at Dantewada**  
**(NWMP Code No. 1856)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	18			29			21			25		
2.	Appearance	-	Clear			Clear			Muddy			Clear		
3.	Odour	Threshold No.	OL			OL			OL			OL		
4.	pH	pH Units	7.5			7.3			7.2			7.5		
5.	Total Solids	Mg/L	241.0			229.0			863.0			241.0		
6.	Dissolved Solids	Mg/L	183.0			181.0			576.0			179.0		
7.	Suspended Solids	Mg/L	58.0			48.0			287.0			62.0		
8.	Chloride (as Cl)	Mg/L	34.0			32.0			62.0			42.0		
9.	Total Alkalinity		48.0			42.0			78.0			58.0		
10.	Total Hardness	Mg/L	46.0			40.0			94.0			52.0		
11.	Calcium Hardness	Mg/L	28.0			22.0			60.0			30.0		
12.	Magnesium Hardness	Mg/L	18.0			18.0			34.0			22.0		
13.	D. O	Mg/L	7.5			7.3			7.2			7.5		
14.	B.O.D.(3 day 27° C)	Mg/L	1.1			1.0			2.3			1.6		
15.	C.O.D.	Mg/L	44.0			44.0			68.0			48.0		
16.	Coliform	MPN/100ml	8.0			8.0			24.0			12.0		
17.	Calcium	Mg/L	11.2			8.8			24.0			12.0		
18.	Magnesium	Mg/L	4.39			4.39			8.29			5.36		

**Year-2013 Regional Office - Korba**  
**Comparative Statement of Hasdeo River Korba**

**U/S of Hasdeo Bango Hydel Power Station, Machadoli, Korba (NWMP Code No. 1105)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug	Sep	Oct	Nov	Dec.	Avg
1.	Temperature	°C	24.8	25.2	26.3	27.3	27.5	26.4	26.4	26.2	26.2	26.0	25.6	25.2	
2.	Appearance	-	Clear	Clear	Clear	Clear	Clear	ST	Turbid	Turbid	S.T.	S.T.	Clear	Clear	
3.	Odour	Threshold	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
4.	pH	pH unit	7.19	7.23	7.22	7.23	7.26	7.16	7.23	7.24	7.25	7.22	7.24	7.22	
5.	Dissolved Solids	Mg/L	292.0	296.0	292.0	270.0	274.0	341.0	363.0	357.0	330.0	380.0	280.0	279.0	
6.	Suspended Solids	Mg/L	44.0	42.0	38.0	40.0	38.0	52.0	69.0	84.0	76.0	64.0	52.0	49.0	
7.	Alkalinity	Mg/L	-	-	-	-	-	-	64.0	72.0	76.0	76.0	74.0	78.0	
8.	Ammonical Nitrogen	Mg/L	1.0	1.1	1.0	0.9	0.8	0.7	1.2	1.0	1.1	1.2	1.1	1.0	
9.	Nitrate Nitrogen	Mg/L	0.9	1.0	0.8	0.8	0.6	0.6	1.1	0.9	1.0	1.0	1.0	0.9	
10.	Nitrite Nitrogen	Mg/L	0.07	0.09	0.07	0.06	0.07	0.08	0.08	0.06	0.07	0.08	0.06	0.08	
11.	Phosphate	Mg/L	0.8	0.6	0.7	0.6	0.8	0.6	0.6	0.8	0.6	0.6	0.8	0.6	
12.	Chloride	Mg/L	16.99	18.99	20.99	18.99	20.99	18.99	20.99	17.99	18.99	18.99	16.99	18.99	
13.	Sulphate	Mg/L	14.0	10.0	8.0	10.0	8.0	10.0	18.0	14.0	12.0	10.0	8.0	12.0	
14.	Dissolved Oxy.	Mg/L	6.9	6.8	6.6	6.8	6.6	6.2	5.2	5.6	6.0	6.2	6.8	6.8	
15.	BOD (3 days 27 <sup>0</sup> C)	Mg/L	0.9	1.0	0.8	1.0	0.6	1.2	1.8	1.6	1.2	1.4	1.0	0.8	
16.	COD	Mg/L	12.0	10.0	10.0	14.0	10.0	14.0	20.0	18.0	16.0	20.0	14.0	18.0	
17.	Calcium Hardness	Mg/L	-	-	-	-	-	-	-	34.0	32.0	32.0	36.0	38.0	
18.	Magnesium Hardness	Mg/L	-	-	-	-	-	-	-	22.0	26.0	26.0	24.0	28.0	
19.	Total Hardness	Mg/L	48.0	56.0	58.0	56.0	60.0	56.0	54.0	56.0	58.0	58.0	60.0	66.0	
20.	Coliform	MPN/ 100ml	40.0	30.0	40.0	30.0	20.0	40.0	60.0	63.0	60.0	43.0	30.0	43.0	

**100 Meter D/s after confluence of Dengurnallah near CSEB (E) Guest House, Korba. (NWMP Code No. 3165)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C	24.5	25.3	26.3	27.5	27.6	27.1	26.5	26.4	26.5	26.2	25.7	25.2	
2.	Appearance	-	S.T.	S.T.	ST	Clear	ST	ST	Turbid	Turbid	Turbid	ST	ST	Clear	
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
4.	pH	pH Units	7.13	7.15	7.18	7.16	7.20	7.16	7.11	7.09	7.11	7.14	7.15	7.13	
5.	Dissolved Solids	Mg/L	316.0	318.0	314.0	274.0	292.0	306.0	340.0	343.0	276.0	408.0	316.0	314.0	
6.	Suspended Solids	Mg/L	58.0	52.0	51.0	52.0	66.0	52.0	122.0	126.0	132.0	89.0	68.0	65.0	
7.	Alkalinity	Mg/L	-	-	-	-	-	-	62.0	52.0	60.0	64.0	68.0	70.0	
8.	Ammonical Nitrogen	Mg/L	1.0	0.9	0.8	0.9	0.8	0.9	1.2	1.1	1.2	1.1	0.8	0.7	
9.	Nitrate Nitrogen	Mg/L	0.8	0.8	0.7	0.7	0.7	0.8	1.1	0.9	1.1	1.0	0.6	0.6	
10.	Nitrite Nitrogen	Mg/L	0.06	0.07	0.06	0.07	0.08	0.07	0.08	0.06	0.08	0.06	0.08	0.06	
11.	Phosphate	Mg/L	0.9	0.8	0.6	0.7	0.7	0.8	0.4	0.6	0.8	0.6	0.6	0.5	
12.	Chloride	Mg/L	16.99	17.99	18.99	16.99	16.99	20.99	16.99	14.99	15.99	16.99	18.99	20.99	
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	10.0	12.0	10.0	8.0	14.0	12.0	14.0	12.0	14.0	16.0	14.0	12.0	
14.	Dissolved Oxygen	Mg/L	5.6	5.8	6.2	6.0	6.0	5.4	4.8	4.6	5.2	5.8	5.6	5.4	
15.	B.O.D.(3 day 27°C)	Mg/L	2.4	2.2	1.4	1.2	1.4	1.8	1.4	1.6	1.4	1.6	1.4	1.6	
16.	C.O.D.	Mg/L	22.0	20.0	18.0	16.0	18.0	16.0	16.0	14.0	18.0	20.0	18.0	18.0	
17.	Calcium Hardness	Mg/L	-	-	-	-	-	-	-	26.0	28.0	26.0	28.0	30.0	
18.	Magnesium Hardness	Mg/L	-	-	-	-	-	-	-	14.0	16.0	20.0	22.0	22.0	
19.	Total Hardness	Mg/L	46.0	50.0	52.0	54.0	54.0	52.0	54.0	40.0	44.0	46.0	50.0	52.0	
20.	Coliform	MPN/100ml	50.0	40.0	50.0	40.0	40.0	60.0	70.0	79.0	70.0	49.0	40.0	70.0	

**D/s near of Hosdev River Near Urga Village-Korba (NWMP Code No. 3168)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C	24.5	25.3	26.3	27.6	27.6	27.2	26.5	26.5	26.4	26.2	25.7	25.2	
2.	Appearance	-	S.T.	S.T.	ST	Clear	ST	ST	Turbid	Turbid	Turbid	Clear	ST	Clear	
3.	Odour	Threshold No.	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	
4.	pH	pH Units	7.19	7.22	7.25	7.23	7.38	7.22	7.19	7.16	7.25	7.16	7.22	7.20	
5.	Dissolved Solids	Mg/L	325.0	328.0	329.0	283.0	300.0	314.0	354.0	350.0	307.0	418.0	322.0	316.0	
6.	Suspended Solids	Mg/L	67.0	62.0	56.0	61.0	69.0	57.0	130.0	138.0	166.0	96.0	76.0	73.0	
7.	Alkalinity	Mg/L	-	-	-	-	-	-	72.0	66.0	70.0	74.0	72.0	76.0	
8.	Ammonical Nitrogen	Mg/L	1.1	1.0	0.9	1.0	1.0	1.1	1.6	1.2	1.3	1.2	1.0	0.9	
9.	Nitrate Nitrogen	Mg/L	1.0	0.9	0.8	0.8	0.8	0.8	1.4	1.0	1.2	1.1	0.8	0.8	
10.	Nitrite Nitrogen	Mg/L	0.08	0.06	0.08	0.09	0.09	0.09	0.1	0.08	0.1	0.08	0.1	0.08	
11.	Phosphate	Mg/L	1.0	1.0	0.8	1.0	0.8	0.9	0.6	0.8	0.8	1.0	0.8	0.6	
12.	Chloride	Mg/L	18.99	20.99	21.99	20.99	22.99	24.99	22.99	19.99	21.99	20.99	21.99	22.99	
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	12.0	14.0	12.0	12.0	16.0	14.0	18.0	16.0	18.0	20.0	18.0	14.0	
14.	Dissolved Oxygen	Mg/L	5.4	5.2	5.6	5.2	5.2	4.8	4.2	4.4	4.6	5.0	5.2	5.0	
15.	B.O.D.(3 day 27°C)	Mg/L	2.8	2.6	1.8	2.0	1.8	2.4	1.8	2.0	2.2	2.0	1.8	2.0	
16.	C.O.D.	Mg/L	24.0	28.0	24.0	26.0	22.0	24.0	22.0	20.0	26.0	28.0	24.0	22.0	
17.	Calcium Hardness	Mg/L	-	-	-	-	-	-	-	30.0	32.0	26.0	32.0	32.0	
18.	Magnesium Hardness	Mg/L	-	-	-	-	-	-	-	16.0	24.0	22.0	24.0	28.0	
19.	Total Hardness	Mg/L	52.0	56.0	60.0	56.0	60.0	56.0	60.0	46.0	56.0	58.0	56.0	60.0	
20.	Coliform	MPN/100ml	60.0	50.0	70.0	60.0	50.0	80.0	90.0	94.0	80.0	63.0	60.0	79.0	

**Drinking Water intake well of municipal corporation Korba before treatment plant at Kohadia. (NWMP Code No. 3169)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C								26.5	26.3	26.2	25.8	25.3	
2.	Appearance	-								Turbid	Turbid	ST	Clear	Clear	
3.	Odour	Threshold No.								OL	OL	OL	OL	OL	
4.	pH	pH Units								7.16	7.18	7.20	7.22	7.21	
5.	Dissolved Solids	Mg/L								240.0	248.0	344.0	270.0	270.0	
6.	Suspended Solids	Mg/L								110.0	94.0	82.0	68.0	62.0	
7.	Alkalinity	Mg/L								40.0	44.0	48.0	66.0	64.0	
8.	Ammonical Nitrogen	Mg/L								0.8	0.6	0.8	0.6	0.8	
9.	Nitrate Nitrogen	Mg/L								0.6	0.5	0.6	0.5	0.7	
10.	Nitrite Nitrogen	Mg/L								0.06	0.06	0.08	0.06	0.06	
11.	Phosphate	Mg/L								0.8	0.8	0.6	0.8	0.6	
12.	Chloride	Mg/L								14.99	16.99	15.99	16.99	15.99	
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L								9.0	10.0	12.0	10.0	8.0	
14.	Dissolved Oxygen	Mg/L								5.6	5.8	5.6	5.8	6.0	
15.	B.O.D.(3 day 27° C)	Mg/L								1.2	1.4	1.6	1.4	1.2	
16.	C.O.D.	Mg/L								8.0	10.0	12.0	10.0	14.0	
17.	Calcium Hardness	Mg/L								16.0	18.0	20.0	28.0	30.0	
18.	Magnesium Hardness	Mg/L								14.0	14.0	18.0	24.0	26.0	
19.	Total Hardness	Mg/L								30.0	32.0	38.0	52.0	56.0	
20.	Coliform	MPN/100ml								70.0	50.0	46.0	30.0	63.0	

**Drinking Water intake well of municipal corporation Korba after treatment plant at Kohadia. (NWMP Code No. 3170)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C								26.7	26.4	26.2	25.9	25.3	
2.	Appearance	-								Clear	Turbid	Clear	Clear	Clear	
3.	Odour	Threshold No.								OL	OL	OL	OL	OL	
4.	pH	pH Units								7.33	7.31	7.29	7.26	7.27	
5.	Dissolved Solids	Mg/L								217.0	219.0	273.0	226.0	232.0	
6.	Suspended Solids	Mg/L								48.0	51.0	47.0	44.0	40.0	
7.	Alkalinity	Mg/L								50.0	56.0	60.0	68.0	70.0	
8.	Ammonical Nitrogen	Mg/L								0.6	0.4	0.6	0.5	0.6	
9.	Nitrate Nitrogen	Mg/L								0.4	0.3	0.4	0.4	0.5	
10.	Nitrite Nitrogen	Mg/L								0.06	0.06	0.08	0.06	0.04	
11.	Phosphate	Mg/L								0.4	0.6	0.6	0.6	0.4	
12.	Chloride	Mg/L								19.99	18.99	17.99	18.99	17.99	
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L								6.0	8.0	10.0	8.0	10.0	
14.	Dissolved Oxygen	Mg/L								6.8	6.4	6.6	6.4	6.6	
15.	B.O.D.(3 day 27° C)	Mg/L								0.4	0.6	0.4	0.6	0.4	
16.	C.O.D.	Mg/L								6.0	4.0	8.0	6.0	8.0	
17.	Calcium Hardness	Mg/L								20.0	20.0	26.0	32.0	34.0	
18.	Magnesium Hardness	Mg/L								12.0	16.0	22.0	18.0	18.0	
19.	Total Hardness	Mg/L								32.0	36.0	48.0	50.0	52.0	
20.	Coliform	MPN/100ml								27.0	20.0	27.0	20.0	31.0	



**Bore well / Hand pump in Rogbahari Village - Korba (NWMP Code No. 3172)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C								28.4					
2.	Appearance	-								Clear					
3.	Odour	Threshold No.								OL					
4.	pH	pH Units								6.76					
5.	Dissolved Solids	Mg/L								182.0					
6.	Suspended Solids	Mg/L								48.0					
7.	Alkalinity	Mg/L								60.0					
8.	Ammonical Nitrogen	Mg/L								-					
9.	Nitrate Nitrogen	Mg/L								0.4					
10.	Nitrite Nitrogen	Mg/L								-					
11.	Phosphate	Mg/L								1.4					
12.	Chloride	Mg/L								39.98					
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L								6.0					
14.	Dissolved Oxygen	Mg/L								2.1					
15.	B.O.D.(3 day 27°C)	Mg/L								0.2					
16.	C.O.D.	Mg/L								10.0					
17.	Calcium Hardness	Mg/L								40.0					
18.	Magnesium Hardness	Mg/L								10.0					
19.	Total Hardness	Mg/L								50.0					
20.	Coliform	MPN/100ml								-					

### Bore well / Hand pump in Parsabhata Balco Korba (NWMP Code No. 3173)

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C								28.6					
2.	Appearance	-								Clear					
3.	Odour	Threshold No.								OL					
4.	pH	pH Units								7.06					
5.	Dissolved Solids	Mg/L								228.0					
6.	Suspended Solids	Mg/L								52.0					
7.	Alkalinity	Mg/L								180.0					
8.	Ammonical Nitrogen	Mg/L								-					
9.	Nitrate Nitrogen	Mg/L								0.8					
10.	Nitrite Nitrogen	Mg/L								-					
11.	Phosphate	Mg/L								1.6					
12.	Chloride	Mg/L								29.99					
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L								10.0					
14.	Dissolved Oxygen	Mg/L								2.0					
15.	B.O.D.(3 day 27°C)	Mg/L								0.6					
16.	C.O.D.	Mg/L								8.0					
17.	Calcium Hardness	Mg/L								80.0					
18.	Magnesium Hardness	Mg/L								40.0					
19.	Total Hardness	Mg/L								120.0					
20.	Coliform	MPN/100ml								2.0					

**Bore well / Hand pump in Dhanras NTPC Korba (NWMP Code No. 3174)**

S. No.	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	A
1.	Temperature	°C								27.9					
2.	Appearance	-								Clear					
3.	Odour	Threshold No.								OL					
4.	pH	pH Units								7.12					
5.	Dissolved Solids	Mg/L								160.0					
6.	Suspended Solids	Mg/L								50.0					
7.	Alkalinity	Mg/L								100.0					
8.	Ammonical Nitrogen	Mg/L								-					
9.	Nitrate Nitrogen	Mg/L								0.6					
10.	Nitrite Nitrogen	Mg/L								-					
11.	Phosphate	Mg/L								1.2					
12.	Chloride	Mg/L								13.99					
13.	Sulphate(as SO <sub>4</sub> <sup>2-</sup> )	Mg/L								8.0					
14.	Dissolved Oxygen	Mg/L								2.4					
15.	B.O.D.(3 day 27°C)	Mg/L								0.4					
16.	C.O.D.	Mg/L								6.0					
17.	Calcium Hardness	Mg/L								42.0					
18.	Magnesium Hardness	Mg/L								14.0					
19.	Total Hardness	Mg/L								56.0					
20.	Coliform	MPN/100ml								2.0					

**Year -2013**  
**NWMP Report**  
**Regional Office – Raigarh**

**1. River Mahanadi at Surajgarh Village Distt.- Raigarh, Inter State Boundary, Near Surajgarh Village**  
**(NWMP Code No. -1101)**

S. No	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	22	21	24	26	30	25	23	23	24	23	20.0	21.0
2.	pH	pH unit	7.4	7.3	7.5	7.2	7.3	7.6	7.5	7.5	7.3	7.3	7.15	7.2
3.	Turbidity	NTU	-	-	-	9.3	-	-	-	-	-	-	-	-
4.	Specific Conductivity	Micro Mhos	301	301	298	296	300	311	297.0	274.0	216.0	218.0	208.0	211.0
5.	Dissolved Solids	Mg/L	-	-	-	134	-	-	-	-	-	-	-	-
6.	Suspended Solids	Mg/L	-	-	-	38.0	-	-	-	-	-	-	-	-
7.	Ammonical nitrogen	Mg/L	1.23	1.21	1.19	1.22	1.2 3	1.36	1.39	1.36	1.19	1.21	1.19	1.16
8.	Nitrate nitrogen	Mg/L	1.12	1.1	1.06	1.08	1.0 8	1.22	1.24	1.18	1.1	1.12	1.08	1.06
9.	Nitrite nitrogen	Mg/L	0.02	0.02	0.02	0.02	0.0 2	0.02	0.02	0.02	0.03	0.029	0.028	0.028
10.	Phosphate	Mg/L	-	-	-	0.9	-	-	-	-	-	-	-	-
11.	Chloride	Mg/L	-	-	-	24.0	-	-	-	-	-	-	-	-
12.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	-	-	-	38.0	-	-	-	-	-	-	-	-
13.	Coliform	MPN/ 100ml	93	75	43	39	43	460	1100	1100	240	210.0	150.0	120.0
14.	Dissolved Oxygen	Mg/L	7.2	7.1	7.2	7.1	7.2	7.3	7.5	7.6	7.3	7.3	7.2	-
15.	BOD (3 days 27° C)	Mg/L	*	*	*	0.9	1.0	*	*	*	*	*	*	-
16.	C.O.D.	Mg/L	-	-	-	12.0	-	-	-	-	-	-	-	-
17.	Total Alkalinity	Mg/L	-	-	-	79.0	-	-	-	-	-	-	-	-
18.	Total Hardness	Mg/L	-	-	-	85.0	-	-	-	-	-	-	-	-
19.	Calcium	Mg/L	-	-	-	21.2	-	-	-	-	-	-	-	-
20.	Magnesium	Mg/L	-	-	-	7.80	-	-	-	-	-	-	-	-

**2. Comparative Statement Of Kelo River at Raigarh Up Stream of Raigarh City  
(NWMP Code No. -1849)**

S. No	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	22	22	24	27	31	25	23	23	24	23	20	21.0
2.	pH	pH unit	7.5	7.4	7.5	7.4	7.4	7.6	7.5	7.5	7.2	7.2	7.24	7.2
3.	Turbidity	NTU	-	-	-	14.4	-	-	-	-	-	-	-	-
4.	Specific Conductivity	Micro Mhos	288	285	281	284	283	311.0	302.0	281.0	174.0	168.0	164.0	171.0
5.	Dissolved Solids	Mg/L	-	-	-	141.0	-	-	-	-	-	-	-	-
6.	Suspended Solids	Mg/L	-	-	-	43.0	-	-	-	-	-	-	-	-
7.	Ammonical nitrogen	Mg/L	1.26	1.23	1.21	1.24	1.26	1.36	1.39	1.36	1.22	-	1.22	1.19
8.	Nitrate nitrogen	Mg/L	1.14	1.12	1.08	1.1	1.1	1.22	1.24	1.20	1.12	1.14	1.1	1.08
9.	Nitrite nitrogen	Mg/L	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.029	0.029	0.025
10.	Phosphate	Mg/L	-	-	-	0.9	-	-	-	-	-	-	-	-
11.	Chloride	Mg/L	-	-	-	25.0	-	-	-	-	-	-	-	-
12.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	-	-	-	40.0	-	-	-	-	-	-	-	-
13.	Coliform	MPN/ 100ml	120	93	75	64	75	460	1100	1100	240	240	210	150
14.	Dissolved Oxygen	Mg/L	7.1	7.0	7.1	7.0	7.2	7.3	7.5	7.6	7.2	7.2	7.1	7.2
15.	BOD (3 days 27° C)	Mg/L	*	*	*	0.9	0.9	*	*	*	*	*	*	
16.	C.O.D.	Mg/L	-	-	-	16.0	-	-	-	-	-	-	-	
17.	Total Alkalinity	Mg/L	-	-	-	83.0	-	-	-	-	-	-	-	
18.	Total Hardness	Mg/L	-	-	-	94.0	-	-	-	-	-	-	-	
19.	Calcium	Mg/L	-	-	-	24.4	-	-	-	-	-	-	-	
20.	Magnesium	Mg/L	-	-	-	8.04	-	-	-	-	-	-	-	

**Comparative Statement Of Kelo River at Raigarh Down Stream of Raigarh City**  
**(NWMP Code No. -1850)**

S. No	Characteristics	Unit	Jan.	Feb.	March	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	22	22	24	27	31	25	23	23	24	23	20.0	21.0
2.	pH	pH unit	7.7	7.7	7.6	7.5	7.5	7.7	7.5	7.5	7.3	7.4	7.26	7.3
3.	Turbidity	NTU	-	-	-	20.6	-	-	-	-	-	-	-	-
4.	Specific Conductivity	Micro Mhos	292	294	291	290	291	310.0	309.0	290.0	182.0	174.9	167.0	173.0
5.	Dissolved Solids	Mg/L	-	-	-	160.0	-	-	-	-	-	-	-	-
6.	Suspended Solids	Mg/L	-	-	-	72.0	-	-	-	-	-	-	-	-
7.	Ammonical nitrogen	Mg/L	1.31	1.28	1.26	1.29	1.31	1.41	1.41	1.39	1.29	1.30	1.24	1.21
8.	Nitrate nitrogen	Mg/L	1.18	1.16	1.14	1.14	1.14	1.26	1.28	1.22	1.14	1.16	1.12	1.1
9.	Nitrite nitrogen	Mg/L	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.030	0.029	0.028
10.	Phosphate	Mg/L	-	-	-	1.0	-	-	-	-	-	-	-	-
11.	Chloride	Mg/L	-	-	-	29.0	-	-	-	-	-	-	-	-
12.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	-	-	-	46.0	-	-	-	-	-	-	-	-
13.	Coliform	MPN/ 100ml	210	210	150	120	150	460	1100	1100	460	460	240.0	210
14.	Dissolved Oxygen	Mg/L	7.0	6.9	6.8	6.8	6.9	7.3	7.4	7.5	7.1	7.1	7.0	7.1
15.	BOD (3 days 27° C)	Mg/L	*	*	*	1.8	1.7	*	*	*	*		*	-
16.	C.O.D.	Mg/L	-	-	-	36.0	-	-	-	-	-		-	-
17.	Total Alkalinity	Mg/L	-	-	-	100.0	-	-	-	-	-		-	-
18.	Total Hardness	Mg/L	-	-	-	105.0	-	-	-	-	-		-	-
19.	Calcium	Mg/L	-	-	-	26.4	-	-	-	-	-		-	-
20.	Magnesium	Mg/L	-	-	-	9.51	-	-	-	-	-		-	-

**NWMP Report Year -2013**  
**Regional Office - Raipur**  
**(1) Rivers Mahanadi at Rajim, D/S , Near Nawapara Rajim Road Bridge**  
**(NWMP Code No. 1099)**

S. No.	Characteristics	Unit	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov	Dec
1.	Temperature	°C	22.0		30.0	38.0	36.0	33.0	27.9	30.0	30.9	25.6	26.3	24.0
2.	Appearance	-	Clear		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
3.	Odour	Threshold No.	OL		OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
4.	pH	pH Units	7.28		7.55	7.64	7.23	7.62	7.84	7.35	7.41	7.83	7.85	7.79
5.	Specific Conductivity	Micro Mhos	262.0		242.0	216.0	280.0	278.0	547.0	456.0	349.0	364.0	340.0	324.0
6.	Turbidity	NTU/JTU	14.0		14.0	18.0	28.0	24.0	107.0	68.0	52.0	41.0	36.0	29.0
7.	Total Solids	Mg/L	172.0		-	-	-	-	-	-	-	-	-	-
8.	Dissolved Solids	Mg/L	146.0		126.0	102.0		115.0	236.0	226.0	216.0	194.0	160.0	150.0
9.	Suspended Solids	Mg/L	26.0		20.0	32.0		-	152.0	84.0	78.0	56.0	50.0	40.0
10.	Fixed Diss.Solids	Mg/L	78.0		64.0	85.0		94.0	204.0	190.0	185.0	130.0	123.0	114.0
11.	Nitrite Nitrogen	Mg/L	1.1		1.1	1.2	1.2	1.0	2.4	1.9	1.9	1.7	1.3	1.5
12.	Dissolved Oxygen	Mg/L	8.1		7.8	7.6	7.3	7.4	7.8	7.9	7.4	7.8	8.1	8.3
13.	B.O.D.(3 day 27°C)	Mg/L	1.9		1.7	1.9	2.0	2.2	3.1	2.8	2.4	2.2	1.9	1.7
14.	C.O.D.	Mg/L	23.76		28.56	24.0	16.48	20.0	44.0	26.0	20.4	24.0	22.0	28.2
15.	Total Alkalinity	Mg/L	98.0		-	-	-	-	-	-	-	-	-	-
16.	Total Hardness	Mg/L	90.0		-	74.0	88.0	80.0	104.0	98.0	92.0	92.0	80.0	84.0
17.	Calcium Hardness	Mg/L	66.0		-	-	-	-	-	-	-	-	-	-
18.	Magnesium Hardness	Mg/L	24.0		-	-	-	-	-	-	-	-	-	-
19.	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	Mg/L	16.0		-	-	-	-	-	-	-	-	-	-
20.	Fluoride	Mg/L	0.78		0.61	0.23	0.12	0.18	0.21	0.22	0.25	0.2	0.2	0.3
21.	Phosphate	Mg/L	1.6		1.6	1.04	1.84	5.0	2.2	1.9	1.7	1.8	1.9	2.1
22.	Chloride	Mg/L	26.0		-	28.0	-	-	37.0	39.0	42.0	30.0	32.0	28.0
23.	Calcium	Mg/L	26.4		27.2	18.4	25.6	20.8	25.6	26.4	24.8	19.2	21.6	23.2
24.	Magnesium	Mg/L	5.85		5.85	8.78	5.85	6.82	9.75	7.8	7.31	10.73	6.34	6.34

25.	Sodium	Mg/L	11.0		12.0	16.0	10.0	14.0	27.0	20.0	17.0	12.0	11.0	12.0
26.	Potassium	Mg/L	4.0		4.0	8.29	6.0	-	6.0	7.0	8.0	7.0	6.0	7.0
27.	Coliform	MPN/100ml	220.0		80.0	90.0	50.0	30.0	500.0	350.0	130.0	110.0	90.0	60.0

(2) Comparative Statement of Rivers Mahanadi at Rudri Dame , U/S of Dhamtari Reservoir  
(NWMP Code No. 1264)

S. No.	Characteristics	Unit	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24			37.0			27.8			25.5		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.6			7.84			7.95			7.67		
5.	Specific Conductivity	µMicro/cm	205.0			184.0			452.0			344.0		
6.	Turbidity	NTU/JTU	12.0			16.0			105.0			48.0		
7.	Total Solids	Mg/L	138.0			-			-			-		
8.	Dissolved Solids	Mg/L	114.0			102.0			244.0			213.0		
9.	Suspended Solids	Mg/L	24.0			26.0			142.0			64.0		
10.	Fixed Diss.Solids	Mg/L	89.0			89.0			208.0			186.0		
11.	Nitrite Nitrogen	Mg/L	1.6			0.6			2.9			2.1		
12.	Dissolved Oxygen	Mg/L	8.2			7.6			7.9			7.5		
13.	B.O.D.(3 day 27° C)	Mg/L	2.1			1.8			3.0			2.5		
14.	C.O.D.	Mg/L	15.84			24.0			40.0			38.0		
15.	Total Alkalinity	Mg/L	108.0			-			-			-		
16.	Total Hardness	Mg/L	72.0			-			-			-		
17.	Calcium Hardness	Mg/L	52.0			-			-			-		
18.	Magnesium Hardness	Mg/L	20.0			4.87			-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	14.0			-			-			-		
20.	Fluoride(as F <sup>-</sup> )	Mg/L	0.5			0.23			0.35			0.19		
21.	Phosphate	Mg/L	1.3			1.08			2.2			1.8		
22.	Chloride	Mg/L	20.0			23.0			36.0			3.50		
23.	Calcium	Mg/L	20.8			20.0			23.2			24.8		
24.	Magnesium	Mg/L	4.87			4.87			8.78			10.73		
25.	Sodium	Mg/L	10.0			10.0			22.0			18.0		
26.	Potassium	Mg/L	4.0			4.0			5.0			9.0		
27.	Coliform	MPN/100ml	50.0			80.0			500			170.0		



(3) Comparative Statement of Rivers Kharun at Bhatagoan, U/S Near W/S Intakewell,  
(NWMP Code No. 1265)

S. No.	Characteristics	Unit	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	22.0			38.0			28.5			26.0		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.82			7.54			7.78			7.65		
5.	Specific Conductivity	µMicro/cm	240.0			234.0			610.0			280.0		
6.	Turbidity	NTU/JTU	12.0			18.0			138.0			22.0		
7.	Total Solids	Mg/L	154.0			-						-		
8.	Dissolved Solids	Mg/L	132.0			86.0			310.0			160.0		
9.	Suspended Solids	Mg/L	22.0			20.0			180.0			33.0		
10.	Fixed Diss.Solids	Mg/L	90.0			61.0			240.0			112.0		
11.	Nitrite Nitrogen	Mg/L	0.9			110.0			2.2			1.2		
12.	Dissolved Oxygen	Mg/L	8.6			8.6			7.6			8.5		
13.	B.O.D.(3 day 27° C)	Mg/L	1.4			1.6			3.2			1.6		
14.	C.O.D.	Mg/L	19.8			19.2			40.0			14.0		
15.	Total Alkalinity	Mg/L	110.0			-			-			-		
16.	Total Hardness	Mg/L	80.0			90.0			-			-		
17.	Calcium Hardness	Mg/L	56.0			-			-			-		
18.	Magnesium Hardness	Mg/L	24.0			-			-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>-2</sup> )	Mg/L	18.0			-			-			-		
20.	Fluoride(as F <sup>-</sup> )	Mg/L	0.66			0.3			0.3			0.2		
21.	Phosphate	Mg/L	1.2			1.02			2.8			1.0		
22.	Chloride	Mg/L	22.0			28.0			41.0			18.0		
23.	Calcium	Mg/L	22.4			25.6			29.6			15.2		
24.	Magnesium	Mg/L	5.85			6.34			8.78			5.36		
25.	Sodium	Mg/L	10.0			14.0			28.0			10.0		
26.	Potassium	Mg/L	4.0			6.0			5.0			6.0		
27.	Coliform	MPN/100ml	110.0			30.0			500.0			50.0		

(4) Comparative Statement of Rivers Shivnath at Simga, Near Simga Bemetara Road Bridge,  
(NWMP Code No. 1266)

S. No.	Characteristics	Unit	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	23			36.0			27.8			26.0		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.35			7.62			7.72			7.65		
5.	Specific Conductivity	µMicro/cm	265.0			214.0			512.0			297.0		
6.	Turbidity	NTU/JTU	16.0			24.0			99.0			84.0		
7.	Total Solids	Mg/L	235.0			-			-			-		
8.	Dissolved Solids	Mg/L	205.0			95.0			322.0			155.0		
9.	Suspended Solids	Mg/L	30.0			27.0			142.0			81.0		
10.	Fixed Diss.Solids	Mg/L	165.0			72.0			204.0			112.0		
11.	Nitrite Nitrogen	Mg/L	1.4			1.1			2.3			1.2		
12.	Dissolved Oxygen	Mg/L	8.0			7.5			7.2			7.4		
13.	B.O.D.(3 day 27°C)	Mg/L	2.5			1.2			3.5			2.6		
14.	C.O.D.	Mg/L	23.76			14.0			44.0			36.0		
15.	Total Alkalinity	Mg/L	112.0			-			-			-		
16.	Total Hardness	Mg/L	94.0			66.0			-			-		
17.	Calcium Hardness	Mg/L	62.0			-			-			-		
18.	Magnesium Hardness	Mg/L	32.0			5.85			-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	26.0			-			-			-		
20.	Fluoride (as F <sup>-</sup> )	Mg/L	0.78			0.104			0.25			0.2		
21.	Phosphate	Mg/L	1.5			1.46			1.6			1.4		
22.	Chloride	Mg/L	28.0			22.0			31.0			34.0		
23.	Calcium	Mg/L	24.8			16.8			25.6			22.4		
24.	Magnesium	Mg/L	7.80			5.85			9.75			9.75		
25.	Sodium	Mg/L	12.0			12.0			24.0			14.0		
26.	Potassium	Mg/L	5.0			8.0			6.0			8.0		
27.	Coliform	MPN/100ml	240.0			60.0			500.0			170.0		

(5) Comparative Statement of Rivers Kharun at Bendri Village , U/S Near CSIDC W/S Intekewell,  
(NWMP Code No. 1853

S. No.	Characteristics	Unit	Jan.	Feb	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov	Dec.
1.	Temperature	°C	23			37.0			28.8			28.2		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.65			7.74			7.47			7.82		
5.	Specific Conductivity	µMicro/cm	254.0			165.0			633.0			344.0		
6.	Turbidity	NTU/JTU	18.0			15.0			140.0			28.0		
7.	Total Solids	Mg/L	176.0			-			-			-		
8.	Dissolved Solids	Mg/L	140.0			92.0			314.0			168.0		
9.	Suspended Solids	Mg/L	36.0			26.0			182.0			44.0		
10.	Fixed Diss.Solids	Mg/L	105.0			68.0			245.0			122.0		
11.	Nitrite Nitrogen	Mg/L	1.3			-			2.3			1.2		
12.	Dissolved Oxygen	Mg/L	8.8			-			7.5			7.7		
13.	B.O.D.(3 day 27° C)	Mg/L	1.5			1.5			3.2			1.8		
14.	C.O.D.	Mg/L	19.8			19.36			42.0			18.0		
15.	Total Alkalinity	Mg/L	90.0			-			-			-		
16.	Total Hardness	Mg/L	78.0			74.0			-			-		
17.	Calcium Hardness	Mg/L	52.0			-			-			-		
18.	Magnesium Hardness	Mg/L	26.0			-			-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>-</sup> )	Mg/L	16.0			-			-			-		
20.	Fluoride (as F <sup>-</sup> )	Mg/L	0.10			0.6			0.35			0.42		
21.	Phosphate	Mg/L	1.2			1.4			3.0			1.2		
22.	Chloride	Mg/L	28.0			33.0			49.0			22.0		
23.	Calcium	Mg/L	20.8			17.6			31.2			23.2		
24.	Magnesium	Mg/L	6.34			1.31			8.78			5.36		
25.	Sodium	Mg/L	11.0			14.0			26.0			12.0		
26.	Potassium	Mg/L	3.0			6.0			7.0			7.0		
27.	Coliform	MPN/100ml	70.0			34.0			500.0			90.0		

(6) Comparative Statement of Rivers Mahanadi at Sihawa Origin Point of River Mahandi  
(NWMP Code No. 1851)

S. No.	Characteristics	Unit	Jan.	Feb	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24			37.0			27.5			24.8		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.65			7.35			7.47			7.39		
5.	Specific Conductivity	µMicro/cm	148.0			104.0			415.0			211.0		
6.	Turbidity	NTU/JTU	9.0			12.0			82.0			17.0		
7.	Total Solids	Mg/L	104.0			-			-			-		
8.	Dissolved Solids	Mg/L	82.0			84.0			208.0			115.0		
9.	Suspended Solids	Mg/L	22.0			24.0			138.0			30.0		
10.	Fixed Diss.Solids	Mg/L	66.0			74.0			165.0			90.0		
11.	Nitrite Nitrogen	Mg/L	1.0			0.4			2.1			0.6		
12.	Dissolved Oxygen	Mg/L	9.2			8.6			8.0			8.5		
13.	B.O.D.(3 day 27°C)	Mg/L	1.1			0.9			2.3			1.0		
14.	C.O.D.	Mg/L	11.88			9.6			34.0			12.0		
15.	Total Alkalinity	Mg/L	102.0			-			-			-		
16.	Total Hardness	Mg/L	62.0			-			-			-		
17.	Calcium Hardness	Mg/L	40.0			-			-			-		
18.	Magnesium Hardness	Mg/L	22.0						-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	12.0			-			-			-		
20.	Fluoride (as F <sup>-</sup> )	Mg/L	0.5			0.22			0.26			0.21		
21.	Phosphate	Mg/L	0.8			1.04			2.3			1.0		
22.	Chloride	Mg/L	24.0			23.0			32.0			13.0		
23.	Calcium	Mg/L	16.0			15.2			20.0			12.0		
24.	Magnesium	Mg/L	5.36			5.85			10.24			6.34		
25.	Sodium	Mg/L	9.0			11.0			22.0			8.0		
26.	Potassium	Mg/L	3.0			6.0			5.0			3.0		
27.	Coliform	MPN/100ml	22.0			11.0			300.0			26.0		

(7) Comparative Statement of Rivers Mahanadi at Arang Near Gandhi Setu NH No. 06  
(NWMP Code No. 1852)

S. No.	Characteristics	Unit	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	23			37.0			27.9			25.6		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.72			7.45			7.84			7.79		
5.	Specific Conductivity	µMicro/cm	224.0			156.0			554.0			376.0		
6.	Turbidity	NTU/JTU	20.0			22.0			109.0			46.0		
7.	Total Solids	Mg/L	152.0			-			-			-		
8.	Dissolved Solids	Mg/L	122.0			96.0			230.0			210.0		
9.	Suspended Solids	Mg/L	30.0			26.0			160.0			60.0		
10.	Fixed Diss.Solids	Mg/L	94.0			65.0			190.0			138.0		
11.	Nitrite Nitrogen	Mg/L	1.2			1.1			2.7			1.8		
12.	Dissolved Oxygen	Mg/L	8.3			7.9			7.6			7.5		
13.	B.O.D.(3 day 27°C)	Mg/L	1.8			1.6			3.2			2.3		
14.	C.O.D.	Mg/L	19.8			19.2			48.0			26.0		
15.	Total Alkalinity	Mg/L	96.0			-			-			-		
16.	Total Hardness	Mg/L	88.0			-			-			-		
17.	Calcium Hardness	Mg/L	64.0			-			-			-		
18.	Magnesium Hardness	Mg/L	24.0			-			-			-		
19.	Sulphate(as SO <sub>4</sub> <sup>-</sup> )	Mg/L	18.0			-			-			-		
20.	Fluoride(as F <sup>-</sup> )	Mg/L	0.7			0.22			0.24			0.26		
21.	Phosphate	Mg/L	1.2			1.6			2.4			1.9		
22.	Chloride	Mg/L	28.0			23.0			41.0			33.0		
23.	Calcium	Mg/L	25.6			21.6			28.0			20.8		
24.	Magnesium	Mg/L	5.85			8.29			9.75			10.24		
25.	Sodium	Mg/L	11.0			12.0			29.0			13.0		
26.	Potassium	Mg/L	5.0			2.0			7.0			7.0		
27.	Coliform	MPN/100ml	130.0			40.0			500.0			90.0		

**(8) Comparative Statement of Bore well Water New H.I.G. 11, Tatibandh, Office Premises RO, CECB, Raipur  
(NWMP Code No. 1620)**

S. No.	Characteristics	Unit	Jan.	Feb	Mar	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	Temperature	°C	22			34.0			27.8			26.2		
2	Appearance	-	Clear			Clear			Clear			Clear		
3	Odour	-	OL			OL			OL			OL		
4	pH	pH Units	7.35			7.85			7.96			7.84		
5	Specific Conductivity	µMicro/cm	468.0			486.0			696.0			621.0		
6	Turbidity	NTU/JTU	6.0			8.0			12.0			10.0		
7	Total Solids	Mg/L	270.0			-			-			-		
8	Dissolved Solids	Mg/L	258.0			445.0			422.0			384.0		
9	Suspended Solids	Mg/L	12.0			12.0			16.0			14.0		
10	Fixed Diss.Solids	Mg/L	204.0			365.0			340.0			310.0		
11	Nitrite Nitrogen	Mg/L	1.0			1.3			2.7			2.2		
12	Dissolved Oxygen	Mg/L	2.0			2.4			3.4			3.7		
13	B.O.D.(3 day 27° C)	Mg/L	0.5			0.6			0.2			0.4		
14	C.O.D.	Mg/L	7.92			9.8			4.0			6.4		
15	Total Alkalinity	Mg/L	90.0			-			-			-		
16	Total Hardness	Mg/L	168.0			-			-			-		
17	Calcium Hardness	Mg/L	132.0			-			-			-		
18	Magnesium Hardness	Mg/L	36.0			-			-			-		
19	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	12.0			-			-			-		
20	Fluoride (as F <sup>-</sup> )	Mg/L	0.84			0.1			0.14			0.11		
21	Phosphate	Mg/L	0.7			0.34			0.3			0.4		
22	Chloride	Mg/L	22.0			20.86			56.0			62.0		
23	Calcium	Mg/L	52.8			52.0			51.2			48.8		
24	Magnesium	Mg/L	8.78			9.26			11.21			9.75		
25	Sodium	Mg/L	7.0			22.0			25.0			14.0		
26	Potassium	Mg/L	2.0			8.0			10.0			7.0		
27	Coliform	MPN/100ml	2.0			4.0			2.0			4.0		

(9) Comparative Statement of Bore well M/s Prakruti Industries, Rawabhata, Raipur  
(NWMP Code No. 1621)

S. No.	Characteristics	Unit	Jan.	Feb	Mar.	April	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1.	Temperature	°C	24			34.0			27.0			26.0		
2.	Appearance	-	Clear			Clear			Clear			Clear		
3.	Odour	-	OL			OL			OL			OL		
4.	pH	pH Units	7.12			7.68			7.75			7.65		
5.	Specific Conductivity	µMicro/cm	482.0			460.0			585.0			524.0		
6.	Turbidity	NTU/JTU	8.0			9.0			14.0			11.0		
7.	Total Solids	Mg/L	282.0			-			-			-		
8.	Dissolved Solids	Mg/L	266.0			355.0			372.0			310.0		
9.	Suspended Solids	Mg/L	16.0			16.0			22.0			18.0		
10.	Fixed Diss.Solids	Mg/L	228.0			225.0			246.0			218.0		
11.	Nitrite Nitrogen	Mg/L	1.1			0.94			2.2			1.7		
12.	Dissolved Oxygen	Mg/L	2.3			6.4			3.8			3.5		
13.	B.O.D.(3 day 27° C)	Mg/L	1.0			0.8			0.6			0.4		
14.	C.O.D.	Mg/L	11.88			9.8			9.52			9.52		
15.	Total Alkalinity	Mg/L	94.0			-			-			-		
16.	Total Hardness	Mg/L	172.0			-			-			-		
17.	Calcium Hardness	Mg/L	134.0			-			-			-		
18.	Magnesium Hardness	Mg/L	38.0			-			-			-		
19.	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	Mg/L	24.0			-			-			-		
20.	Fluoride (as F <sup>-</sup> )	Mg/L	0.8			0.6			0.17			0.14		
21.	Phosphate	Mg/L	1.4			0.8			0.4			0.2		
22.	Chloride	Mg/L	22.0			23.0			34.0			29.0		
23.	Calcium	Mg/L	53.6			56.0			54.4			51.2		
24.	Magnesium	Mg/L	9.26			9.26			11.21			10.24		
25.	Sodium	Mg/L	12.0			9.0			23.0			12.0		
26.	Potassium	Mg/L	6.0			3.0			9.0			6.0		
27.	Coliform	MPN/100ml	4.0			11.0			8.0			6.0		