

MADHYA PRADESH POLLUTION CONTROL BOARD
Water Quality during Year - 2017-2018

Natural Water Resource : River Betwa, Orchha

XGN ID: 23405

Description of Sampling Station: Near road bridge

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		17.04.17	07.05.17	02.06.17	21.07.17	10.08.17	27.9.17	8.10.17	28.11.17	15.12.17	04.01.201	2.2.2018		-	-	-
2	Appearance		-	-	-	-	-	-	-	-	-	-	-		-	-	-
3	Temperature	oC	29	31	30	23	29	28	29	21	21	20	20		25.5	31	20
4	Turbidity	NTU	1	1	4	8	3	4	15	10	3	1	2		-	-	-
5	Colour	PCS	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C.less		-	-	-
6	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less				
7	pH	pH Unit	8.44	8.2	7.96	7.47	7.79	7.86	7.98	7.97	7.75	8.28	8.36		8.0	8.44	7.47
8	Sp. Conductivity	µMhos/cm.	267.5	254.9	257.8	204.4	222.16	235.2	168.2	236	227.9	251.4	252		234.3	267.5	168.2
9	T. Solids	mg/l	192	170	208	152	172	174	110	114	134	166	184		161.5	208	110
10	D. Solids	mg/l	190	166	202	146	168	168	106	110	132	162	180		157.3	202	106
11	S. Solids	mg/l	2	4	6	8	4	6	4	4	2	4	4		4.4	8	2
12	Amm. Nitrogen	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				
13	Nitrite Nitrogen	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.03	0.02	0.03	0.02		0.0	0.03	0.02
14	Nitrate Nitrogen	mg/l	0.2	0.36	0.38	BDL	BDL	BDL	BDL	0.24	0.53	0.3	0.34		0.3	0.53	0.2
15	Phosphate (PO ₄)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				
16	Fluoride	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				
17	Chloride	mg/l	22	21.95	26.91	21.14	24.99	23.61	17.32	14.95	18.25	27.39	25.44		22.2	27.39	14.95
18	Sulphate (SO ₄)	mg/l	34.4	12.72	13.32	1.4	1.8	1.2	3.37	10.4	0.52	27.39	25.44		12.0	34.4	0.52
19	T. Alkalinity	mg/l	146	150	153.2	134.8	149.2	153.2	104.4	124	132	24.19	12.75		116.7	153.2	12.75
20	T. Hardness	mg/l	140	148	156	136	140	136	100	140	128	144	128		136.0	156	100
21	CalciumHardness	mg/l	84	88	100	104	104	100	56	80	88	184	136		102.2	184	56
22	Magnesium H.	mg/l	56	60	56	32	36	36	44	60	40	96	84		54.5	96	32
23	D. Oxygen	mg/l	7.14	7.24	7.72	7.42	7.63	7.66	6.67	7.68	7.48	88	52		18.8	88	6.67
24	B.O.D.	mg/l	0.98	1.12	0.97	0.42	0.69	0.66	1.69	1.48	1.56	7.56	7.52		2.2	7.56	0.42
25	C.O.D.	mg/l	3.52	3.65	3.1	3	3.68	3.68	3.64	3.41	4.92	1.02	1.03		3.2	4.92	1.02
26	Sodium	mg/l	10.78	10.83	11.23	8.36	9.81	8.32	8.17	11.79	16.68	3.92	4.08		9.5	16.68	3.92
27	Potassium	mg/l	1.98	1.95	1.99	1.12	1.31	1.08	2.21	2.73	3.4	25.19	26.58		6.3	26.58	1.08
28	T. Coliform	MPN/100ml	0	0	0	0	2	0	2	2	2	5.13	4.72		1.6	5.13	0
29	F. Coliform	MPN/100ml	0	0	0	0	0	0	0	0	0	2	3		0.5	3	0
30	T.K.N.	mg/l	-	-	-	-	BDL	BDL	BDL	BDL	BDL	BDL	BDL				
31	Phenolphthalein	mg/l	4.4	4.8	0	0	0	0	3.6	1.2	0	0	0		1.3	4.8	0
32	Calcium	mg/l	33.6	35.2	40	41.6	41.6	40	22.4	32	35.2	38.4	0		32.7	41.6	0
33	Magnesium	mg/l	13.62	14.59	13.32	7.78	8.75	8.75	10.7	14.59	9.73	21.4	33.6		14.3	33.6	7.78
34	SAR	meq/L	0.39	0.39	0.38	0.31	0.36	0.3	0.36	0.43	0.65	0.8	0.98		0.5	0.98	0.3

CATEGORY

A

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MADHYA PRADESH POLLUTION CONTROL BOARD REGIONAL LABORATORY GWAILOR.
Water Quality during Year - 2017-2018

Natural water resource - Chambal River

Description of sampling station - Interstate Boundary Near Road Bridge Dholpur Rajasthan

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of sampling		24.4.17	3.5.17	21.6.17	19.7.17	16.8.17	5.9.17	6.10.17	7.11.17	29/12/1						
2	Appearance		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	clear						
3	Temprature	oC	29	29	28	26	23	26	25	22	18				26.00	29	18
4	Turbidity	NTU	6	8	8	8	7	10	6	6	6				7.00	8	6
5	colour	PCS	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C.less	C .less						
6	Odour	T.NO	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O .less						
7	pH	pH unit	7.48	7.56	7.5	8	7.13	7.85	7.32	8.24	7.82				7.59	7.82	7.48
8	Sp. Conductivity	µMhos/cm	680	580	665	705	556	760	656	860	640				641.3	680	580
9	T. solids	mg/l	488	435	465	495	356	496	423	574	442				457.5	488	435
10	D. solids	mg/l	438	374	394	418	334	460	394	550	394				400.0	438	374
11	S. solids	mg/l	50	61	71	77	22	36	29	24	48				57.5	71	48
12	Amm. Nitrogen	mg/l	1.1	1.1	1.3	1.4	1	1.1	1.85	0.2	1.1				1.2	1.3	1.1
13	Nitrite nitrogen	mg/l	2.2	1.9	2.1	2.1	1.8	3.25	0.62	1	2				2.1	2.2	1.9
14	Nitrate nitrogen	mg/l															
15	Phosphate	mg/l	1	1.1	1.2	1.2	0.35	0.95	0.42	0.23	1.2				1.1	1.2	1
16	chloride	mg/l	40.33	77.56	96.45	97.52	44.42	70	45.64	38.58	86.43				75.2	96.45	40.33
17	Sulphate	mg/l	16.2	16	17	19	7.5	8.5	5.5	28.2	16.4				16.4	17	16
18	T. alkalinity	mg/l	200	150	190	190	130	150	170	200	180				180.0	200	150
19	T. hardness	mg/l	178	162	194	194	112	140	140	190	174				177.0	194	162
20	Calcium hardness	mg/l	98	108	136	136	70	90	90	100	110				113.0	136	98
21	Magnisium hardness	mg/l	80	54	58	58	42	50	50	90	64				64.0	80	54
22	D. oxygen	mg/l	8	8.5	7.8	8	7.8	7.3	7.9	8.3	8.4				8.2	8.5	7.8
23	BOD	mg/l	1.4	1.8	2	2	1.2	2.5	2		1.2				1.6	2	1.2
24	COD	mg/l	44.24	43.47	55.55	79.99	25.28	63.2	50.56	22.49	37.6				45.2	55.55	37.6
25	Sodium	mg/l	13.1	23	25	27	6.7	8.5	5.2	16.4	22.2				20.8	25	13.1
26	Potassium	mg/l	1	1.3	2	2	0.5	1.1	0.75	1.1	1.4				1.4	2	1
27	T. coliform	MPN/100ml	34	34	34	26	22	26	34	34	34				34.0	34	34
28	F. coliform	MPN/100ml									<2						
	CATEGORY		A	A	A	A	A	A	A	A							

Classification of River water based on IS - 2296 - 1992

MADHYA PRADESH POLLUTION CONTROL BOARD,
Water Quality during Year - 2017-2018

Natural Water Resource :River Parwati at Dharnawada.

Description of Sampling Station: Near MP Rajasthan Road Bridge,distt. Guna.

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		28.04.17	18.05.17	22.06.17	25.07.17	29.08.17	22.09.17	30.10.17	30.11.17	23.12.20	16.01.18			-	-	-
2	Appearance		-	-	-	-	-	-	-	-	-	-			-	-	-
3	Temperature	oC	29.5	30.2	28	28.4	28	28	22	21	20.6	22			25.77	30.2	20.6
4	Turbidity	NTU	-	-	-	-	-	-	-	-	-	6			6.00	6	6
5	Colour	PCS	-	-	-	-	-	-	-	-	-	C.less			-	-	-
6	Odour	T. No	-	-	-	-	-	-	-	-	-	O.less			-	-	-
7	pH	pH Unit	7.52	7.7	7.6	7.8	7.5	7.74	7.58	7.8	7.86	7.2			7.63	7.86	7.2
8	Sp. Conductivity	µMhos/cm.	578	601	584	764	724	746	571	590	644	560			636.20	764	560
9	T. Solids	mg/l	380	406	480	562	514	488	372	360	422	382			436.60	562	360
10	D. Solids	mg/l	352	374	442	482	454	460	350	335	396	358			400.30	482	335
11	S. Solids	mg/l	28	32	38	80	60	28	22	25	26	24			36.30	80	22
12	Amm. Nitrogen	mg/l	-	-	-	-	-	-	-	-	-	1			1.00	1	1
13	Nitrite Nitrogen	mg/l	-	-	-	-	-	-	-	-	-	-			-	-	-
14	Nitrate Nitrogen	mg/l	-	-	-	-	-	-	-	-	-	1.2			1.20	1.2	1.2
15	Phosphate (PO ₄)	mg/l	-	-	-	-	-	-	-	-	-	1.6			1.60	1.6	1.6
16	Chloride	mg/l	60	64	54	70	55	47	42	45	52	38			52.70	70	38
17	Sulphate (SO ₄)	mg/l	-	-	-	-	-	-	-	-	-	19			19.00	19	19
18	T. Alkalinity	mg/l	180	190	180	210	190	210	180	190	200	220			195.00	220	180
19	T. Hardness	mg/l	170	170	150	180	170	190	160	170	190	156			170.6	190	150
20	CalciumHardness	mg/l	100	110	90	110	100	100	90	100	110	102			101.2	110	90
21	Magnesium H.	mg/l	70	60	60	70	70	80	70	70	80	54			68.40	80	54
22	D. Oxygen	mg/l	6.5	6.2	6.4	7.5	7.9	6.2	6.7	6.8	6.4	7.8			6.84	7.9	6.2
23	B.O.D.	mg/l	2.4	2.7	2.6	2.9	2.8	2.8	2.4	2.7	2.8	2.4			2.65	2.9	2.4
24	C.O.D.	mg/l	14	16	12	22	20	22	16	12	16	14			16.40	22	12
25	Sodium	mg/l	-	-	-	-	-	-	-	-	-	14			14.00	14	14
26	Potassium	mg/l	-	-	-	-	-	-	-	-	-	1.2			1.20	1.2	1.2
27	T. Coliform	MPN/100ml	-	-	-	-	-	-	-	-	-	28			28.00	28	28
28	F. Coliform	MPN/100ml	-	-	-	-	-	-	-	-	-	< 2			-	-	-
29	T.K.N.	mg/l	-	-	-	-	-	-	-	-	-	-			-	-	-

CATEGORY - B (Due to BOD more than 2.0 mg/l)

MADHYA PRADESH POLLUTION CONTROL BOARD REGIONAL LABORATORY REWA.

Water Quality during Year - 2017-2018

Natural Water Resource : River Sone at village-Khairpur, near M.P.-U.P. boundary, distt.Sidhi

Description of Sampling Station: Near road bridge

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		18.04.17.	28.05.17	27.06.17	25.07.17	9.08.17	5.09.17	8.10.17	7.11.17	13.12.20	05.01.201					
2	Appearance		Clear	Clear	Clear	Turbid	Turbid	Sl.Turbid	Clear	Clear	Clear	Clear					
3	Temperature	oC	30.4	32	28.5	27.5	31.5	29.5	29	28.4	24	20.5			27.33	32	20.5
4	Turbidity	NTU	23	26	19	42	33	28	7	12	10	8			21.63	42	8
5	Colour	PCS	C.less	C.less	C.less	Muddy	Muddy	C.less	C.less	C.less	C.less	C.less					
6	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less					
7	pH	pH Unit	7.38	7.46	7.41	7.72	7.1	7.45	7.28	7.28	7.31	7.4			7.42	7.72	7.28
8	Sp. Conductivity	µMhos/cm.	0.455	0.429	0.413	0.695	0.793	0.629	0.308	0.362	0.296	0.324			0.42	0.695	0.296
9	T. Solids	mg/l	448	439	422	688	918	612	302	319	263	308			412.43	688	263
10	D. Solids	mg/l	411	398	384	546	789	572	274	288	236	273			362.29	546	236
11	S. Solids	mg/l	37	41	38	142	129	40	28	31	27	35			50.14	142	27
12	Amm. Nitrogen	mg/l	0.04	0.05	0.09	0.05	0.03	0.02	0.01	0.02	0.01	0.02			0.04	0.09	0.01
13	Nitrite Nitrogen	mg/l	0.006	0.02	Traces	0.04	0.02	0.01	0.007	0.01	trace	0.03			0.02	0.04	0.006
14	Nitrate Nitrogen	mg/l	2.9	3.1	2.2	3.5	2.9	1.8	0.71	0.81	0.76	0.96			2.03	3.5	0.76
15	Phosphate (PO ₄)	mg/l	0.65	0.73	0.54	0.89	0.77	0.64	0.38	0.65	0.58	0.62			0.67	0.89	0.54
16	Chloride	mg/l	29.35	39.13	28.5	34.24	19.56	38	28.5	38.25	29.35	29.35			32.60	39.13	28.5
17	Sulphate (SO ₄)	mg/l	11	9	6	10	12	9	8	11	7	10			9.14	11	6
18	T. Alkalinity	mg/l	60	64	52	72	72	68	60	68	96	100			73.14	100	52
19	T. Hardness	mg/l	124	140	132	192	184	156	128	132	164	164			149.71	192	124
20	CalciumHardness	mg/l	72	80	80	124	108	88	92	100	108	88			93.14	124	72
21	Magnesium H.	mg/l	52	60	52	68	76	68	36	32	56	76			56.57	76	32
22	D. Oxygen	mg/l	6.6	6.3	6.7	7.2	9.2	8.1	7.9	7.7	8.4	8.6			7.36	8.6	6.3
23	B.O.D.	mg/l	1.4	1.6	1.2	2.6	1.5	1.3	1.2	1.4	1.2	1.1			1.50	2.6	1.1
24	C.O.D.	mg/l	9.82	9.75	9.6	19	9.88	10.2	9.56	9.6	9.82	9.6			11.03	19	9.6
25	Sodium	mg/l	8	7	5	9	6	7	5	7	23	12.7			10.24	23	5
26	Potassium	mg/l	17	21	18	22	19	16	15	19	2.7	3.6			14.76	22	2.7
27	T. Coliform	MPN/100ml	40	50	33	90	40	27	21	30	26	27			42.29	90	26
28	F. Coliform	MPN/100ml	17	21	11	17	5	<2	2	2	2	2			10.28571	21	2
29	Iron	mg/l	0.13	0.19	0.08	0.15	0.09	0.06	0.13	0.06	0.03	0.06			0.10	0.19	0.03
	CATEGORY		A	A	A	B	A	A	A	A	A	A					

MADHYA PRADESH POLLUTION CONTROL BOARD

Water Quality during Year - 2017-2018

Natural Water Resource : River Tons at M.P.-U.P. boundary, before mixing to River Belan, chakghat, Rewa

Description of Sampling Station: Near road bridge

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		25.04.2017	21.05.2017	17.06.2017	21.07.2017.	2.8.17	13.9.17	9.10.17	14.11.17	5.12.17	03.01.18					
2	Appearance		Clear	Clear	Clear	Turbid	Turbid	Turbid	Clear	Clear	Clear	Clear					
3	Temperature	oC	30.2	31	28.2	26..8	31.5	32	28.5	28.4	24	20			26.96667	31	20
4	Turbidity	NTU	22	25	28	38	30	11	6	9	9	9			21.25	38	9
5	Colour	PCS	C.less	C.less	C.less	Muddy	Muddy	C.less	C.less	C.less	C.less	C.less					
6	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less					
7	pH	pH Unit	7.43	7.39	7.66	7.89	7.6	7.63	7.25	7.1	7.28	7.2			7.4	7.89	7.1
8	Sp. Conductivity	µMhos/cm.	0.439	0.475	0.487	0.723	0.473	0.521	0.267	0.272	0.278	0.308			0.4	0.723	0.272
9	T. Solids	mg/l	486	469	512	698	524	508	258	265	268	321			431.3	698	265
10	D. Solids	mg/l	447	426	472	541	461	457	227	236	239	291			378.9	541	236
11	S. Solids	mg/l	39	43	40	157	63	51	31	29	29	30			52.4	157	29
12	Amm. Nitrogen	mg/l	0.04	0.05	0.12	0.04	0.03	0.06	0.02	0.01	0.04	0.03			0.0	0.12	0.01
13	Nitrite Nitrogen	mg/l	0.009	0.01	0.008	0.02	0.01	0.01	0.009	trace	0.004	0.06			0.0	0.06	0.004
14	Nitrate Nitrogen	mg/l	2.7	3.3	4.5	4.8	3.3	1.6	0.98	0.72	1.4	1.1			2.6	4.8	0.72
15	Phosphate (PO ₄)	mg/l	0.71	0.73	0.69	1.1	0.95	0.09	0.69	0.8	0.7	0.7			0.8	1.1	0.69
16	Chloride	mg/l	24.46	29.35	38	43.03	19.56	19.7	42.75	43.03	39.13	24.46			34.5	43.03	24.46
17	Sulphate (SO ₄)	mg/l	12	13	9	14	11	7	6	8	10	8			10.6	14	8
18	T. Alkalinity	mg/l	56	52	60	68	72	72	68	64	72	92			66.3	92	52
19	T. Hardness	mg/l	116	136	164	188	124	140	160	156	160	172			156.0	188	116
20	CalciumHardness	mg/l	76	80	96	100	80	88	92	84	108	104			92.6	108	76
21	Magnesium H.	mg/l	40	56	68	88	44	52	68	72	52	68			63.4	88	40
22	D. Oxygen	mg/l	6.6	6.5	6.4	7.2	9.2	7.9	7.7	7.1	7.4	7.3			6.9	7.4	6.4
23	B.O.D.	mg/l	1.6	1.9	1.7	2.3	2	1.3	1.2	1.4	1.2	1.3			1.6	2.3	1.2
24	C.O.D.	mg/l	9.82	9.6	19.2	9.6	9.88	10.2	9.56	9.82	9.6	9.6			11.0	19.2	9.6
25	Sodium	mg/l	4	7	3	6	7	9	8	12	26	11			9.9	26	3
26	Potassium	mg/l	13	16	15	19	21	23	17	21	3	2.8			12.8	21	2.8
27	T. Coliform	MPN/100ml	40	33	21	70	33	30	27	30	21	33			35.4	70	21
28	F. Coliform	MPN/100ml	7	11	6	21	17	4	<2	<2	2	2			8.2	21	2
29	Iron	mg/l	0.09	0.11	0.19	0.2	0.1	0.02	0.19	0.07	0.01	1.2			0.3	1.2	0.01
	CATEGORY		A	A	A	B	A	A	A	A	A	A					

**MADHYA PRADESH POLLUTION CONTROL BOARD,
Water Quality during Year - 2017-2018**

Natural Water Resource : River Chambal at, Gandhi sagar

Description of Sampling Station: Chambal River 100 Meter D/S at Gandhi sagar

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		18.4.17	16.5.17	26.6.17	20.7.17	11.8.17	10.9.17	5.10.17	14.11.17	12.12.17	10.1.18					
2	Appearance		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear						
3	Temperature	oC	30	28	26	26.5	26	27	26	27	26	23			26.55	30	23
4	Turbidity	NTU	6.8	4.8	4.8	4	3.4	2.9	1.82	2.9	2	2.8			3.62	6.8	1.82
5	Colour	PCS	Colourless	5	5	5	5	5	5	5	5	5			5.00	5	5
6	Odour	T. No	--	--	--	--	--	--	--	--	O .less						
7	pH	pH Unit	7.4	7.72	7.61	7.92	8.12	8.12	7.95	7.89	7.82	7.9			7.85	8.12	7.4
8	Sp. Conductivity	µMhos/cm.	424	400	410	347	336	352	332	326	336	332			359.50	424	326
9	T. Solids	mg/l	298	290	308	296	248	256	238	242	250	246			267.20	308	238
10	D. Solids	mg/l	282	276	296	280	238	244	230	230	240	234			255.00	296	230
11	S. Solids	mg/l	16	14	12	16	10	12	8	12	10	12			12.20	16	8
12	Amm. Nitrogen	mg/l	0.528	0.052	0.061	0.026	0.1382	0.074	0.319	0.11	0.381	0.386			0.21	0.528	0.026
13	Nitrite Nitrogen	mg/l	0.006	0.006	0.009	0.187	0.0014	0.0018	0.079	0.007	0.006	0.068			0.04	0.187	0.0014
14	Nitrate Nitrogen	mg/l	0.78	0.772	0.817	1.21	0.564	0.514	0.994	0.79	0.916	0.892			0.82	1.21	0.514
15	Phosphate (PO ₄)	mg/l	0.052	0.052	0.048	0.036	BDL	BDL	0.0016	BDL	BDL	BDL			0.04	0.052	0.0016
16	Chloride	mg/l	40	36	39	39	42	34	34	40	42	34			38.00	42	34
17	Sulphate (SO ₄)	mg/l	16.4	14.1	18.4	17.9	10.24	14.312	14.6	18	16.4	12.2			15.26	18.4	10.24
18	T. Alkalinity	mg/l	110	116	118	126	108	96	122	176	128	102			120.20	176	96
19	T. Hardness	mg/l	120	152	154	180	190	154	156	170	146	144			156.60	190	120
20	CalciumHardness	mg/l	72	94	96	122	100	78	72	72	120	92			91.80	122	72
21	Magnesium H.	mg/l	48	58	58	58	90	76	84	98	26	52			64.80	98	26
22	D. Oxygen	mg/l	7.6	7.2	7.5	8.3	7.3	7.1	7	7	7	7.3			7.33	8.3	7
23	B.O.D.	mg/l	2	1.8	2	2.3	2	2	2	2	2	2			2.01	2.3	1.8
24	C.O.D.	mg/l	14	14	12	14	12	14	10	10	14	12			12.60	14	10
25	Sodium	mg/l	26.6	24	25.9	15.9	13.4	16.2	13.9	24.75	18.2	14.8			19.37	26.6	13.4
26	Potassium	mg/l	1.4	1	1.4	1.2	1	1	1	3.15	1.2	1			1.34	3.15	1
27	T. Coliform	MPN/100ml	70	70	50	40	60	60	46	33	40	40			50.90	70	33
28	F. Coliform	MPN/100ml	9	9	8	8	8	7	9	7	9	7			8.10	9	7
29	T.K.N.	mg/l	3.36	3.08	2.8	1.4	1.4	2.24	--	--	2.52				2.40	3.36	1.4
	CATEGORY		A	A	A	A	A	A	A	A	A	A					

MADHYA PRADESH POLLUTION CONTROL BOARD,
Water Quality during Year - 2017-2018

Natural Water Resource : River Narmada

Description of Sampling Station: At Kakrana, interstate boundry, Alirajpur.

S.No.	Characteristic	Unit	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Average	Max.	Min.
1	Date of Sampling		18.4.17	13.5.17	30.6.17	13.07.17	19.08.17	05.09.17	02.10.17	04.11.17	16.12.17	01.01.18	05.02.18				
2	Appearance		Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear				
3	Temperature	°C	31	31	29.5	28	24	23	24	24	22	21	22		25.41	31	21
4	Turbidity	NTU	1	1.4	1.2	12.5	1.2	2.3	8.5	1.8	1.3	6.1	5.8		3.92	12.5	1
5	Colour	PCS	1	1	1	1	1	1	1	1	1	1	1		1.00	1	1
6	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.L	O. Less	O. less				
7	pH	pH Unit	7.8	8.3	8.6	8.5	8.2	8.42	8.06	7.72	8.56	8.7	8.66		8.32	8.7	7.72
8	Sp. Conductivity	µMhos/cm.	294	320	333	380	320	310	418.47	483	449.4	439.45	405		377.48	483	294
9	T. Solids	mg/l	204	220	210	270	196	222	282	270	291	269	251		244.09	291	196
10	D. Solids	mg/l	194	212	202	244	186	211	270	258	279	261	243		232.73	279	186
11	S. Solids	mg/l	10	8	8	26	10	132	12	12	12	8	8		22.36	132	8
12	Amm. Nitrogen	mg/l	0.014	0.013	0.018	0.024	0.016	0.019	0.018	0.016	0.016	0.016	0.022		0.02	0.024	0.013
13	Nitrite Nitrogen	mg/l	0.003	0.018	0.007	0.006	0.004	0.008	0.008	0.004	0.005	0.005	0.004		0.01	0.018	0.003
14	Nitrate Nitrogen	mg/l	0.86	0.92	0.66	0.92	0.72	0.56	1.228	1.68	1.956	0.973	0.87		1.03	1.956	0.56
15	Phosphate (PO ₄)	mg/l	0.011	0.016	0.014	0.02	0.012	0.012	0.032	0.012	0.022	0.012	0.018		0.02	0.032	0.011
16	Chloride	mg/l	22.97	34.2	27.22	35.22	34.71	25.6	26.8	43.39	25.99	30.85	32.06		30.82	43.39	22.97
17	Sulphate (SO ₄)	mg/l	3.06	3.03	2.66	4.93	2.8	3.46	5.17	4.97	8.912	14.45	6.49		5.45	14.45	2.66
18	T. Alkalinity	mg/l	136	148	148	160	132	140	148	152	168	180	148		150.91	180	132
19	T. Hardness	mg/l	124	128	132	156	124	124	140	140	176	172	144		141.82	176	124
20	CalciumHardness	mg/l	96	104	100	120	104	100	112	100	132	120	112		109.09	132	96
21	Magnesium Hardness	mg/l	28	24	32	36	20	24	28	40	44	52	32		32.73	52	20
22	D. Oxygen	mg/l	7.5	7.2	7.4	6.8	7.1	7.2	6.9	7.1	7.7	7.8	7.5		7.29	7.8	6.8
23	B.O.D.	mg/l	1.3	1.4	1.2	1.3	1.2	1.2	1.2	1.4	1.4	1.4	1.9		1.35	1.9	1.2
24	C.O.D.	mg/l	11.5	15.23	11.76	18.24	10	10	5.88	20	9	14.52	19.76		13.26	20	5.88
25	Sodium	mg/l	17	16	16.3	21	17	17.9	1.8	17.2	18.2	19	20.19		16.51	21	1.8
26	Potassium	mg/l	1.8	1.6	1.7	2	1.2	2	26.8	1.6	2	2	2.2		4.08	26.8	1.2
27	T. Coliform	MPN/100ml	34	50	50	40	50	40	30	50	40	33	60		43.36	60	30
28	F. Coliform	MPN/100ml	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2				
29	Fluoride	mg/l	0.77	0.72	0.8	1.04	0.72	0.58	0.82	0.78	0.69	0.8	0.8		0.77	1.04	0.58
30	FDS	mg/l	128	152	154	170	132	132	180	174	188	170	168		158.91	188	128
31	T.K.N.	mg/l	5.042	5.42	3.921	6.163	4.28	5.04	5.04	6.12	5.6	5.04	7.28		5.36	7.28	3.921
32	Boron	mg/l	0.003	0.008	0.008	0.008	0.002	0.008	0.004	0.004	0.006	0.006	0.008		0.01	0.008	0.002
	CATEGORY		"A "	"A "	"A "	"A "	"A "	"A "	"A "	"A "	"A "	"A "	"A "				

**MADHYA PRADESH POLLUTION CONTROL BOARD,
Water Quality during Year - 2017-2018**

Natural Water Resource : River Mahi at Forest Guest house rajapur mataji shivgarh Ratlam

Description of Sampling Station: River water

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		4/12/2017			7/17/2017	8/9/17	20.9.17	10/31/2017	30.11.17	11.12.17	12.1.18			Av.	Maxi.	Mini.
2	Appearance		--			--	--	--	Clear		Clear				-	-	-
3	Temperature	oC	28			23	27	25	--	26	27	27			26.14	28	23
4	Turbidity	NTU	4.2			118	6.2	3.4	6.6	1.95	3.2	3.1			18.33	118	1.95
5	Colour	PCS	5			Muddy	Colourless	5	--	C.less	5	5			5.00	5	5
6	Odour	T. No	O.less			O.less	O.less	O.less	O.less	O.less	O .less						
7	pH	pH Unit	8.06			7.7	8.39	7.38	7.9	7.68	7.98	7.8			7.86	8.39	7.38
8	Sp. Conductivity	µMhos/cm.	436			240	440	363	512	398	474	484			418.38	512	240
9	T. Solids	mg/1	302			360	310	268	358	250	346	356			318.75	360	250
10	D. Solids	mg/1	290			140	298	254	348	240	336	342			281.00	348	140
11	S. Solids	mg/1	12			220	12	14	10	10	10	14			37.75	220	10
12	Amm. Nitrogen	mg/1	0.824			0.74	0.07	0.422	0.418	0.415	0.398	0.192			0.43	0.824	0.07
13	Nitrite Nitrogen	mg/1	0.006			0.06	0.006	0.006	0.014	0.013	0.012	0.0018			0.01	0.06	0.0018
14	Nitrate Nitrogen	mg/1	2.268			1.52	0.991	2.62	0.766	0.612	0.698	0.692			1.27	2.62	0.612
15	Phosphate (PO ₄)	mg/1	BDL			BDL	BDL	0.062	0.004	0.0359	0.003	BDL			0.03	0.062	0.003
16	Chloride	mg/1	30			20	29.9	25	40	56	38	32			33.86	56	20
17	Sulphate (SO ₄)	mg/1	18.2			20	14.4	12.453	14.2	10.95	12.2	11.4			14.23	20	10.95
18	T. Alkalinity	mg/1	118			66	140	116	102	98	100	264			125.50	264	66
19	T. Hardness	mg/1	184			126	198	140	148	172	150	280			174.75	280	126
20	CalciumHardness	mg/1	100			52	108	102	106	120	110	152			106.3	152	52
21	Magnesium H.	mg/1	84			74	90	38	42	52	40	128			68.5	128	38
22	D. Oxygen	mg/1	7.2			6.9	7	7	7.6	7.6	7.4	7.3			7.3	7.6	6.9
23	B.O.D.	mg/1	2.2			2.2	2	1.8	2	1.1	2	2			1.9	2.2	1.1
24	C.O.D.	mg/1	17			16	12	12	12	12	10	14			13.1	17	10
25	Sodium	mg/1	15.6			26.18	20.2	14.56	12.6	14.1	10.6	30.6			18.1	30.6	10.6
26	Potassium	mg/1	0.7			2.0	0.8	1.71	1.3	1.1	0.9	2.4			1.4	2.4	0.7
27	T. Coliform	MPN/100ml	90			80	40	30	50	40	40	50			52.5	90	30
28	F. Coliform	MPN/100ml	21			7	4	4	4	8	4	9			7.6	21	4
29	T.K.N.	mg/1	--			--	--	--	--	--	--						

CATEGORY

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MADHYA PRADESH POLLUTION CONTROL BOARD, UJJAIN.
Water Quality during Year - 2017-2018

Natural Water Resource : River Mahi at Ranisingh Village

Description of Sampling Station: River water

S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		12.4.17	11.5.17	23.6.17	17.7.17	8.9.17	20.9.17	31.10.17	30.11.17	11.12.17						
2	Appearance		--	--	--	--	--	--	--	Clear	Clear						
3	Temperature	oC	28	27	26	23	27	25	27	26	27				26.8	28	26
4	Turbidity	NTU	3.8	4.6	4.2	200	6.8	2.6	6.2	6.8	3.2				4.8	6.8	3.2
5	Colour	PCS	5	5	5	Muddy	5	5	5	5	Clear				5.0	5	5
6	Odour	T. No	O.less	O.less	O.less	--	--	--	--	--	--						
7	pH	pH Unit	8.02	7.86	7.88	7.54	7.64	7.82	7.72	7.76	7.96				7.9	8.02	7.72
8	Sp. Conductivity	µMhos/cm.	429	440	506	196	374	352	505	510	486				479.3	510	429
9	T. Solids	mg/l	298	314	356	330	268	182	358	362	352				340.0	362	298
10	D. Solids	mg/l	288	302	346	120	254	174	346	346	342				328.3	346	288
11	S. Solids	mg/l	10	12	10	210	14	8	12	16	10				11.7	16	10
12	Amm. Nitrogen	mg/l	0.7160	0.742	0.816	0.72	0.0618	0.321	0.514	0.524	0.511				0.6	0.816	0.511
13	Nitrite Nitrogen	mg/l	0.004	0.003	0.0028	0.06	0.006	0.266	0.012	0.014	0.08				0.0	0.08	0.0028
14	Nitrate Nitrogen	mg/l	1.164	1.246	0.984	0.24	0.849	3.181	0.618	0.628	0.612				0.9	1.246	0.612
15	Phosphate (PO ₄)	mg/l	BDL	BDL	BDL	BDL	BDL	0.308	0.003	0.004	0.002						
16	Chloride	mg/l	26	34	36	19	40	24	34	38	40				34.7	40	26
17	Sulphate (SO ₄)	mg/l	16.14	18.2	18.28	16	16.4	17.53	12.6	16.6	12.1				15.7	18.28	12.1
18	T. Alkalinity	mg/l	112	120	120	64	96	102	98	106	96				108.7	120	96
19	T. Hardness	mg/l	174	180	194	100	182	150	142	150	140				163.3	194	140
20	CalciumHardness	mg/l	96	100	100	52	98	120	98	100	98				98.7	100	96
21	Magnesium H.	mg/l	78	80	94	48	84	30	44	50	42				64.7	94	42
22	D. Oxygen	mg/l	7.1	7.4	7.2	7	6.7	7.2	7.5	7.4	7				7.3	7.5	7
23	B.O.D.	mg/l	2	1.8	2	2	2	1.2	2	2.2	2				2.0	2.2	1.8
24	C.O.D.	mg/l	18	16	16	14	12	8	14	16	12				15.3	18	12
25	Sodium	mg/l	24.12	22.4	26.64	22.06	18.2	15.91	10.8	12.4	11.2				17.9	26.64	10.8
26	Potassium	mg/l	0.64	0.8	0.86	1.5	1	2.18	1.2	1.5	1				1.0	1.5	0.64
27	T. Coliform	MPN/100ml	110	80	90	140	90	40	50	50	60				73.3	110	50
28	F. Coliform	MPN/100ml	30	9	11	12	11	6	9	9	6				12.3	30	6
29	T.K.N.	mg/l	2.8	2.8	2.8	2.52	1.68	1	1.4	1.96	--				2.4	2.8	1.4

CATEGORY

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MADHYA PRADESH POLLUTION CONTROL BOARD,

Water Quality during Year - 2017-2018

Natural Water Resource

: RiverKen, Panna

XGN ID: 28918

Description of Sampling Station: Near road bridge, Panna

Analysis No.		10	43	64	111	144	213	223	254	278	295						
S.No.	Characteristic	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan	Feb	March	Av.	Maxi.	Mini.
1	Date of Sampling		13.04.17	11.05.17	01.06.17	28.07.17	08.08.17	27.9.17	8.10.17	26.11.17	19.12.17	17.1.18			-	-	-
2	Temperature	oC	31	30	29	26	28	29	29	25	23	17			26.7	31	17
3	Turbidity	NTU	-	-	-	-	-	-	-	4	8	8			6.7	8	4
4	Colour	PCS	C.less	C.less	C.less	Muddy	Light	C.less	C.less	C.less	C.less	C.less			-	-	-
5	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less			-	-	-
6	pH	pH Unit	8.42	8.72	8.54	7.93	7.74	7.9	7.76	7.89	7.96	8.26			8.1	8.72	7.74
7	Sp. Conductivity	µMhos/cm.	238	256.4	243.6	155.6	145.3	188	201	202	207.8	220.5			205.8	256.4	145.3
8	T. Solids	mg/l	176	164	180	238	192	165	174	156	162	166			177.3	238	156
9	D. Solids	mg/l	170	156	174	102	106	155	162	144	150	158			147.7	174	102
10	S. Solids	mg/l	6	8	6	136	86	10	12	12	12	8			29.6	136	6
11	Amm. Nitrogen	mg/l	BDL	-	-	-	-	BDL	BDL	BDL	BDL	BDL					
12	Nitrite Nitrogen	mg/l	0.01	0.02	0.01	0.01	BDL	BDL	BDL	BDL	0.03	0.02			0.0	0.03	0.01
13	Nitrate Nitrogen	mg/l	-	-	-	-	-	0.9	0.71	0.62	0.5	0.68			0.7	0.9	0.5
14	Phosphate (PO ₄)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL					
15	Chloride	mg/l	25.6	20.12	21.14	13.46	15.38	19.14	20.55	16.82	22.3	25.44			20.0	25.6	13.46
16	Sulphate (SO ₄)	mg/l	12.42	12.38	11.36	BDL	BDL	5	12	13	16.72	10.05			11.6	16.72	5
17	T. Alkalinity	mg/l	125.6	122.4	130.8	80	93.2	96	108	100	104	132			109.2	132	80
18	T. Hardness	mg/l	128	124	132	92	64	72	84	120	108	152			107.6	152	64
19	Calcium Hardness	mg/l	88	72	88	56	48	40	52	72	72	112			70.0	112	40
20	Magnesium H.	mg/l	40	52	44	36	16	32	32	48	36	40			37.6	52	16
21	D. Oxygen	mg/l	7.52	7.64	7.54	6.86	7	7.1	7.2	7.79	7.76	7.46			7.4	7.79	6.86
22	B.O.D.	mg/l	0.92	0.86	0.84	1.04	0.6	1.5	1.1	1.08	1.02	0.68			1.0	1.5	0.6
23	C.O.D.	mg/l	3.52	3.04	3.65	3	3.68	3.68	3.64	3.41	4.04	3.68			3.5	4.04	3
24	Sodium	mg/l	10.74	10.68	10.84	5.91	5.59	6	9.53	8.89	18.45	18.8			10.5	18.8	5.59
25	Potassium	mg/l	1.72	1.69	1.58	3.38	2.26	2	1.6	2.75	4.4	4.91			2.6	4.91	1.58
26	T. Coliform	MPN/100ml	5	-	-	-	-	-	7	5	4	1			4.4	7	1
27	F. Coliform	MPN/100ml	1	-	-	-	-	-	0	0	0	0			0.20	1	0
	CATEGORY		A	A	A	A	A	A	A	A	A	A					

Classification of River water based on IS - 2296 - 1992

MADHYA PRADESH POLLUTION CONTROL BOARD,

Water Quality during Year - 2017-2018

Natural Water Resource : River Water

Description of Sampling Station: Tapti River at Pipalghat, Burhanpur

S.No.	Characteristic	Unit	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Avg.	Max.	Min.
1	Date of Sampling		08.04.17	10.05.17	27.06.17	22.07.17	04.08.17	05.09.17	02.10.17	6.11.17	20.12.17				-	-	-
2	Appearance		Clear	Greenish	Sl. Turbid	Muddy	Sl. Muddy	Sl.Muddy	Clear	Clear	Clear				Clear	Clear	Clear
3	Temperature	oC	30	31	30.5	26	28	24	24	23	19.4				23.71	31.5	0
4	Turbidity	NTU	4.4	12.9	14.6	84.6	0.8	7.6	0.7	4.3	27				77.47	200.02	2.6
5	Colour	PCS	1	1	1	1	1	1	1	1	1				1.57	5	1
6	Odour	T. No	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less	O.less						
7	pH	pH Unit	7.47	8.68	7.96	8.16	8.31	8.49	8.31	-	8.52				8.25	9.14	7.74
8	Sp. Conductivity	µMhos/cm.	404	880	716	374.12	530	524	524	548.4	596				624.74	834.9	445
9	T. Solids	mg/l	298	615	496	295	332	360	338	373	424				418.57	500	338
10	D. Solids	mg/l	282	590	467	253	324	346	330	-	408				371.29	478	270
11	S. Solids	mg/l	16	25	29	42	8	14	8	11	16				47.29	110	10
12	Amm. Nitrogen	mg/l	0.033	0.022	0.021	0.028	0.021	0.015	0.024	0.027	0.034				0.03	0.04	0
13	Nitrite Nitrogen	mg/l	0.089	0.084	0.03	0.08	0.005	0.008	0.014	0.011	0.02				0.04	0.11	0
14	Nitrate Nitrogen	mg/l	1.209	4.6	0.862	2.73	2.01	1.63	2.2	0.926	1.82				3.24	6.76	1.68
15	Phosphate (PO ₄)	mg/l	0.04	0.043	0.019	0.043	0.668	0.022	0.46	0.022	0.028				0.09	0.47	0.02
16	Chloride	mg/l	71.78	68.4	34.485	13.99	33.25	73.16	33.5	56.74	35.47				66.87	109.75	42
17	Sulphate (SO ₄)	mg/l	3.68	12.5	34.485	8.8	4.11	6.868	7.29	7.36	10.4				15.76	68.14	4.38
18	T. Alkalinity	mg/l	200	300	5.66	168	200	248	210	188	212				189.43	248	136
19	T. Hardness	mg/l	188	268	208	148	190	268	190	180	192				212.86	320	172
20	CalciumHardness	mg/l	148	188	156	108	100	220	110	128	132				154.57	180	132
21	M. Hardness	mg/l	40	80	52	40	90	48	80	52	60				58.29	152	30
22	D. Oxygen	mg/l	6.6	8	6.6	6.7	6.9	6.1	6.6	7.6	8				6.47	9.8	3
23	B.O.D.	mg/l	1.6	4.6	1.6	1.6	1.6	1.6	1.8	2.6	2.8				3.59	8	1.8
24	C.O.D.	mg/l	18.24	28.56	24.5	20	8	24	24.5	29.04	38				39.85	100	25.92
25	Sodium	mg/l	26.81	32	23	28	12.12	22.08	22.4	24.8	30				31.58	52.7	26
26	Potassium	mg/l	1.2	3	1.9	3	1.5	2.06	2.2	2.4	3				3.02	5.4	2.4
27	T. Coliform	MPN/100ml	80	500	140	110	40	60	170	90	130				317.14	900	70
28	F. Coliform	MPN/100ml	<2	17	<2	<2	<2	<2	<1.8	<2	<2				<2	<2	<2
29	Fluoride	mg/l	0.89	0.78	0.83	1.73	0.68	0.86	0.62	0.96	1.11				0.97	1.2	0.71
30	FDS	mg/l	190	416	320	158	181	210	156	230	232				214.71	336	156
31	T.K.N.	mg/l	8.4	16.24	5.042	6.72	2.8	6.16	5.6	6.16	-				9	10.08	8.12
32	Boron	mg/l	0.006	0.08	0.008	0.006	0.004	0.004	0.004	0.004	0.008				0.02	0.08	0.01
	CATEGORY		"B"	"B"	"B"	"B"	"A"	"A"	"B"	"B"	"B"				"B"	"C"	"B"

MADHYA PRADESH POLLUTION CONTROL BOARD,

Water Quality during Year - 2017-2018

Description of Sapmling Station :- RIVER PENCH Near Singori Road Bridge At CHHINDWARA

S.No.	Characteristic	Unit	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Avg.	Max.	Min.	
	Date of Sampling		6.4.17	31.5.17	report not found from R.O.Jabalpur	4.7.17	3.8.17	5.9.17	9.10.17									
1	Temperature	Centigrade	36	35		20	28	28	26							28.83	36	20
2	pH	pH Units	8.31	7.94		7.84	7.63	8.34	7.41							7.91	8.34	7.41
3	Colour	Pt. Co. Scale	C.less	C.less		C.less	C.less	C.less	C.less									
4	Turbidity	N.T.U.						3	2							2.50	3	2
5	T. Solids	mg/l	943	567		537	693	563	611							652.33	943	537
6	D. Solids	mg/l	559	488		541	604	489	522							533.83	604	488
7	FDS	mg/l	240	230		230	240	242								236.40	242	230
8	S. Solids	mg/l	84	79		86	89	74	89							83.50	89	74
9	Amm. Nitrogen	mg/l	1.12	1.8		1.2	1.1	0.9	1.1							1.20	1.8	0.9
10	Nitrite Nitrogen	mg/l	1.6	2.3		1.84	1.8	1.8								1.87	2.3	1.6
11	Nitrate Nitrogen	mg/l	1	0.8		0.6	0.8	0.8	0.8							0.80	1	0.6
12	Nitrate Nitrogen	mg/l	1.4	1.6		1.6	1.4	1.1	1.6							1.45	1.6	1.1
13	T. Alkalinity	mg/l	52	62		64	64	48								58.00	64	48
14	T. Hardness	mg/l	138	158		128	138	144								141.20	158	128
15	Sodium	mg/l	8	8		8	8	8	8							8.00	8	8
16	Potassium	mg/l	2	2		2	2	2	2							2.00	2	2
17	Chloride	mg/l	39	39		49	63	40	14							40.67	63	14
18	Sulphate (SO ₄)	mg/l	14	12		14	10	10								12.00	14	10
19	Phosphate	mg/l	0.16	0.1		0.16	0.18	0.16	0.18							0.16	0.18	0.1
20	T. Coliform	MPN/100 ml	23	21		1	28	21								18.80	28	1
21	F. Coliform	MPN/100 ml	3	3		4	3	3								3.20	4	3
22	D. Oxygen	mg/l	7.2	7.2		7.2	7.2	7.2	7.2							7.20	7.2	7.2
23	C.O.D.	mg/l	16	16		16	16	16	16							16.00	16	16
24	Fluoride	mg/l	BDL	BDL		N.D	BDL	N.D	BDL									
25	B.O.D.	mg/l	2.8	2.8		2.8	2.8	2.8	1.8							2.63	2.8	1.8
26	Sp. Conductivity	micromho/cm	816	730		730	940	810	730							792.67	940	730
27	CalciumHardness	mg/l	104	128		104	102	120	305							143.83	305	102
28	M. Hardness	mg/l	34	30	24	36	24	65							35.50	65	24	
	CATEGORY		"A"	"A"		"A"	"A"	"A"	"A"									

Water quality during year - 2017-2018

**Natural water resource - Chambal River,
Description of sampling station -Chambal River Itwa Road Bridge,Bhind**

S.No.	Characterstic	Unit	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Avg.	Min.	Max.
1	Date of sampling		–				29.8.17	20/9/2017	6/10/2017		15/12/2017						
2	Appearance						S.Twsid	S. Turbid	S.Turbid		Clear						
3	Temprature	centigrate	–				28				20				24.0	28	20
4	Turbidity	N.T.U	–				10	10	11		6				9.3	11	6
5	Colour	pt.co.scale	–				C .less	C .less	C .less		C .less						
6	Odour						O .less	O .less	O .less		O .less						
7	pH	ph units	–				8.12	8.12	8.22		8.0				8.1	8.22	8
8	Conductivity	µmhos/cm	–				1140	1160	1260		860				1105.0	1260	860
9	Total solid	mg/l	–				772	788	834		261				663.8	834	261
10	Total dissolve solid	mg/l	–				708	702	738		200				587.0	738	200
11	Suspended solid	mg/l	–				64	86	96		61				76.8	96	61
12	Ammonical nitrogen	mg/l	–				1	1.1	–		0.23				0.8	1.1	0.23
13	Nitrite Nitrogen		–				–	–	–		1.0				1.0	1	1
14	Nitrate Nitrogen	mg/l	–				–	2.2	–		2.2				2.2	2.2	2.2
15	Phosphate	mg/l	–				1.3	1.3	–		200				67.5	200	1.3
16	chloride	mg/l	–				93.3	119.57	138.05		28.2				94.8	138.05	28.2
17	sulphate	mg/l	–				15.2	17.2	–		200				77.5	200	15.2
18	Alkalinity as caco3	mg/l	–				270	272	290		170				250.5	290	170
19	total hardness	mg/l	–				238	248	274		100				215.0	274	100
20	calcium Haredness	mg/l	–				148	154	162		70				133.5	162	70
21	Magnesium hardness	mg/l	–				90	94	112		8.2				76.1	112	8.2
22	D.O.	mg/l	–				7.8	7.6	7.8		1.1				6.1	7.8	1.1
23	B.O.D.	mg/l	–				1.2	1.2	1.5		112				29.0	112	1.2
24	C.O.D.	mg/l	–				45.97	48.19	69.76		16.4				45.1	69.76	16.4
25	sodium	mg/l	–				11.2	–	–		1.1				6.2	11.2	1.1
26	potassium	mg/l	–				1.2	13.8	–		-				7.5	13.8	1.2
27	Total Coliform	MPN/100 ml	–					1.3	–		-				1.3	1.3	1.3
28	Feacal Coliform	MPN/100 ml	–					–	–								
29	T.K.N.	mg/l						–	–								

Cat -

A

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