

(प्रतिवेदन) परिशिष्ट

अंतराल उभर क्वेश्चन - 745

**MADHYA PRADESH POLLUTION CONTROL BOARD, BHOPAL.**

Water Quality during Year - 2016-2017

**RIVER KATNI US NEAR NAGAR NIGAM INTAKE POINT**

Natural Water Resource : R.O.M.P.P.C.B. KATNI

Characteristic Unit	Description of Sampling Station:												Maxi.	Mini.
	April 11.04.16	May 10.5.16	June 13/06/16	July 21/07/16	Aug. 11/8/2016	Sept. 14/09/16	Oct. 18.10.16	Nov. 17.11.16	Dec. 19.12.16	Jan. 27.01.17	Feb 07.02.17	March 08.03.17		
Temperature	28	18	28	18	18	28	18	28	18	18	28	21.7	-	-
NTU	3.4	2.6	colorless	5	4	6	1.1	4	6	6	3	colorless	4.19091	6
PCs	colorless	colorless	colorless	colorless	turbid	colorless	colorless	colorless	colorless	colorless	colorless	colorless	-	-
T. No														
pH Unit	7.13	7.48	7.43	8.33	7.28	7.9	7.16	7.89	7.39	8.33	8.31	8.3	7.74	8.33
Conductivity µMhos/cm.	617	367	783	256	636	298	364	284	810	293	361	286	446.25	810
Solids mg/l	463	263	682	278	428	284	309	258	621	326	394	294	383.333	682
Solids mg/l	396	226	633	244	355	246	271	226	531	284	352	282	337.167	633
Solids mg/l	68	37	49	34	73	38	38	32	90	42	42	12	46.25	90
Am. Nitrogen mg/l	0.41	0.4	1.2	BDL	0.32	BDL	0.9	BDL	1.24	0.42	0.4	0.4	0.63222	1.24
Nitrite Nitrogen mg/l	0.2	BDL	0.4	BDL	0.1	BDL	BDL	0.06	0.6	0.2	0.32	0.3	0.2725	0.6
Nitrate Nitrogen mg/l	0.7	BDL	0.6	BDL	1.1	0.64	0.4	0.86	1.4	0.38	0.34	0.36	0.68	1.40
Orthophosphate (PO <sub>4</sub> ) mg/l	1.3	1.1	1.3	0.112	0.033	BDL	0.4	BDL	0.14	0.12	0.112	0.112	0.47	1.3
Chloride mg/l	2	13.8	22.7	NA	34.98	17	7.92	17.5	2	12.5	12.49	15	14.3536	34.98
Sulfate (SO <sub>4</sub> ) mg/l	4.6	4.6	4.7	7.6	6.4	6.8	2.6	1.5	12	10	7.6	7.6	6.33333	12.00
Alkalinity mg/l	34	26	24	24	24	28	6	32	74	12	12	12	25.6667	74
Hardness mg/l	174	166	98	164	118	156	118	148	126	172	124	124	140.667	174
Calcium Hardness mg/l	122	120	64	136	72	132	80	120	102	144	68	88	104	144
Magnesium H. mg/l	52	44	34	28	46	24	38	28	104	28	56	36	43.1667	104
Oxygen mg/l	6.8	5.8	6.7	7.9	7	6.8	7.3	6.3	6.9	6.8	5.5	6.7	6.70833	7.9
O.D. mg/l	1.4	2.2	1.8	1	2.6	1.7	1.6	1.4	2.8	1.6	1.4	1.5	1.75	2.8
O.D. mg/l	27	117	23	8	12	9.72	16	12	16	16	16	16	24.06	117
Chloride mg/l	6	6	5	10	14	8	7	10	10	10	6	12	8.66667	14
Fluoride mg/l														
Iron mg/l														
Coliform MPN/100ml	84	63	47	26	39	22	41	17	15	29	21	25	35.75	84
Coliform MPN/100ml	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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अनुभाग अधिकारी

मध्यप्रदेश शासन

पर्यावरण विभाग एवं पर्यावरण निरीक्षण

CATEGORY

**MADHYA PRADESH POLLUTION CONTROL BOARD, BHOPAL.**

Water Quality during Year - 2016-2017

KATNI RIVER D/S NEAR MAIGHAT ROAD BRIDGE

Natural Water Resource : KATNI RIVER D/S NEAR MAIGHAT ROAD BRIDGE  
 Description of Sampling Station: R.O.M.P.P.C.B. KATNI

Characteristic	Unit	Description of Sampling Station: R.O.M.P.P.C.B. KATNI												Mini.		
		April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March		Av.	Maxi.
Characteristics of Sampling	NR	-	-	-	21.07.16	-	-	18.10.2016	-	-	-	23.01.16	-	-	-	-
Temperature	°C	-	-	-	18	-	-	20	-	-	-	18	-	-	-	-
Acidity	NTU	-	-	-	5	-	-	1.8	-	-	-	3	-	-	3.26667	5
Colour	PCS	-	-	-	colorless	-	-	colorless	-	-	-	colorless	-	-	-	-
Dissolved Oxygen	%	-	-	-	8.39	-	-	7.83	-	-	-	7.49	-	-	7.90	8.39
Conductivity	pH Unit	-	-	-	BDL	-	-	0.3	-	-	-	0.4	-	-	0.35	0.4
Solids	mg/l	-	-	-	BDL	-	-	1.2	-	-	-	0.3	-	-	0.75	1.20
	mg/l	-	-	-	BDL	-	-	0.6	-	-	-	0.9	-	-	0.54	0.9
Total Nitrogen	mg/l	-	-	-	0.112	-	-	9.9	-	-	-	28.7	-	-	18.54	28.70
	mg/l	-	-	-	17.02	-	-	2.7	-	-	-	4.8	-	-	5.03333	7.60
Phosphate (PO <sub>4</sub> )	mg/l	-	-	-	7.6	-	-	12	-	-	-	24	-	-	21.3333	28
	mg/l	-	-	-	28	-	-	126	-	-	-	182	-	-	160	182
Alkalinity	mg/l	-	-	-	172	-	-	86	-	-	-	130	-	-	117.333	136
	mg/l	-	-	-	136	-	-	40	-	-	-	52	-	-	42.6667	52
Hardness	mg/l	-	-	-	36	-	-	-	-	-	-	-	-	-	-	-
	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved Oxygen	mg/l	-	-	-	1.2	-	-	1.9	-	-	-	2	-	-	1.7	2
	mg/l	-	-	-	16	-	-	17	-	-	-	70	-	-	34.3333	70
Dissolved Oxygen	mg/l	-	-	-	10	-	-	6	-	-	-	4	-	-	6.66667	10
	mg/l	-	-	-	1	-	-	2	-	-	-	1	-	-	1.33333	2
Total Dissolved Solids	mg/l	-	-	-	31	-	-	39	-	-	-	43	-	-	37.6667	43
	mg/l	-	-	-	0	-	-	10	-	-	-	10	-	-	6.66667	10
Coliform	MPN/100ml	-	-	-	BDL	-	-	BDL	-	-	-	BDL	-	-	-	-
	mg/l	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Classification of River water based on IS - 2296 - 1982

CATEGORY A

**MADHYA PRADESH POLLUTION CONTROL BOARD, BHOPAL.**  
Water Quality during Year - 2016-2017

Natural Water Resource : **KATNI RIVER DS BEHIND SARASWATI SCHOOL KATNI**  
Description of Sampling Station: **R.O.M.P.C.B. KATNI**

Parameter	Unit	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	March	Av.	Maxi.	Mini.
Water Temperature	°C		NR		21.07.16			18.10.16			27.01.17					
Water Transparency	NTU				18			20			23.5			4.93333	8	1.8
Water Color	PCS				5			1.8			colorless					
Water pH	pH Unit				colorless			colorless			8.34				8.39	7.83
Water Conductivity	µMhos/cm.				8.39			7.83			293			298.333	346	256
Total Solids	mg/l				256			346			332			311.333	332	286
Total Dissolved Solids	mg/l				286			316			284			271	284	252
Total Suspended Solids	mg/l				252			277			48			40.3333	48	34
Ammonia Nitrogen	mg/l				34			39						#DIV/0!	#DIV/0!	#DIV/0!
Nitrite Nitrogen	mg/l				BDL			0.3			0.32			0.31	0.32	0.3
Nitrate Nitrogen	mg/l				BDL			1.2			0.4			0.80	1.20	0.4
Orthophosphate (PO <sub>4</sub> )	mg/l				BDL			0.6			0.12			0.28	0.6	0.112
Chloride	mg/l				0.112			0.6			12.5			13.14	17.02	9.9
Sulfate (SO <sub>4</sub> )	mg/l				17.02			9.9			10			6.76667	10.00	2.7
Alkalinity	mg/l				7.6			2.7			12			17.3333	28	12
Hardness	mg/l				28			12			184			160.667	184	126
Calcium Hardness	mg/l				172			126			152			124.667	152	86
Magnesium Hardness	mg/l				136			86			32			36	40	32
Dissolved Oxygen	mg/l				36			40						#DIV/0!	#DIV/0!	#DIV/0!
D.O. (1st)	mg/l				1.2			1.9			1.8			1.63333	1.9	1.2
D.O. (2nd)	mg/l				16			17			24			19	24	16
D.O. (3rd)	mg/l				10			6			10			8.66667	10	6
Biochemical Oxygen Demand	mg/l				1			2			1			1.33333	2	1
Chemical Oxygen Demand	mg/l				31			39			29			33	39	29
Coliform (Total)	MPN/100ml				0			10			1.8			3.93333	10	0
Fecal Coliform	mg/l				BDL			BDL			na					

*[Signature]*  
**अवर सचिव**  
मध्य प्रदेश सरासनी  
नगरीय विकास एवं सार्वजनिक विभाग

Classification of River water based on IS - 2296 - 96 (Z - IS 2296 - 96) - IS 2296 - 96 (Z - IS 2296 - 96)  
A

Classification of River water based on IS - 2296 - 96 (Z - IS 2296 - 96) - IS 2296 - 96 (Z - IS 2296 - 96)  
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