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BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, PRINCIPAL
BENCH, NEW DELHI

O.A. No. 585 / 2022 (PB)

Samayak Jain & Others

....Applicants

Versus

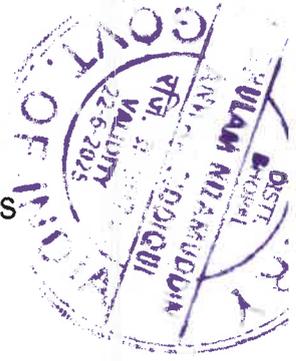
State of MP & Others

....Respondents

COMPLIANCE AFFIDAVIT ON BEHALF OF CENTRAL WATER
COMMISSION RESPONDENT NO 4

I, Mahesh Gupta S/o Late Shri ML Gupta, Executive Engineer, Narmada Division, CWC, Paryavas Bhavan, Arera Hills, Bhopal do hereby solemnly affirm on oath as

1. That, the deponent is serving as Executive Engineers, in Narmada Basin Organization, CWC, Regional Office Bhopal, well acquainted with the facts and competent to swear the instant affidavit. The deponent is fully acquainted with the facts of the case.
2. That, Hon'ble NGT Court has been pleased to pass an order on 10th January 2023 in which sought response of Chief Engineer, Central Water Commission (CWC), Bhopal on the report submitted by Joint Committee (JC). Thereby making CWC as one of the respondents (Respondent no.4 among 8 respondents).
3. That, the petitioner has filed a case on 14-09-2022 in National Green Tribunal, Principal bench, New Delhi, complaining about the damage to environment of river Narmada in Dindori.
4. The petitioner stated that Narmada which is the fifth largest river in India

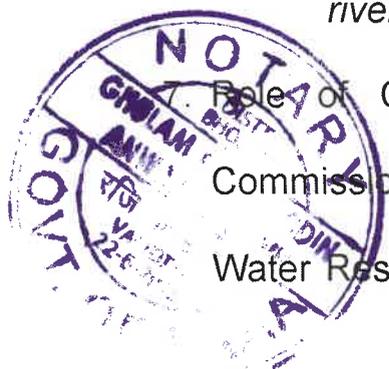


is the biggest source of water in Madhya Pradesh and Gujarat. The petitioner had stated that it is the duty of state to prevent and control the water pollution under article 21 of Constitution of India. He claimed that funds worth crores of rupees have been sanctioned and released. But the state has failed to prevent discharge of untreated sewage in Narmada River, the applicant / petitioner has requested for issuance of appropriate directions which are mentioned in the case.

5. That, the Hon'ble National Green Tribunal principal bench has further ordered constitution of a joint committee to verify the factual position. Accordingly, a joint committee comprising of representatives of Ministry of Environment and Forest and others has submitted its report on 9th December 2022.
6. That, upon thoroughly examination of the Joint Committee report, it is found that the Joint Committee has given its observations on the fourteen (14) issues that were raised by the applicant. After assessing the report, it is to submit that none of the issues is directly pertaining or related to Central Water Commission (CWC). However, Central Water Commission in the case to present its response on the Joint Committee report respectfully submitting on Comments on Issue no. 10 because Central Water Commission is also collecting water quality data are as under:

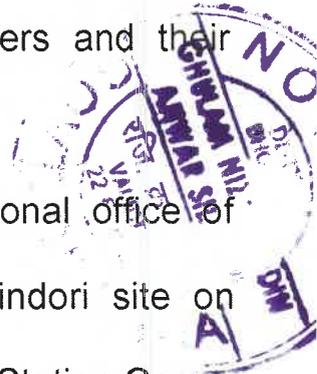
Issue No. 10: "MPPCB be directed to monitor and submit action taken reports as well as analysis reports of the water quality in the river Narmada".

Role of Central Water Commission, Bhopal:- The Central Water Commission is a premier Technical Organization of India in the field of Water Resources and is an attached office of the Ministry of Jal Shakti,



Department of Water Resources, River Development and Ganga Rejuvenation, Government of India. The Central Water Commission is also engaged in taking observations of surface water parameters like water level, discharge, silt and water quality data throughout the country through its vast hydrological observation network on various rivers and their tributaries.

8. That, Narmada Basin Organization, CWC, Bhopal (Regional office of CWC) is monitoring the water quality parameters of Dindori site on Narmada River at three locations i.e., upstream Line (U/S), Station Gauge line (S/G Line) and Downstream Line (D/S).
9. That, The Water Level at Dindori is being observed three times a day (8.00, 13.00, 18.00 hrs.) during non-monsoon period and hourly during monsoon period. Discharge of the river is being observed once a day at 8:00 AM except on holidays. However, the water quality samples are being collected on ten-daily basis every month. Along with this data, CWC is also maintaining a three-tier laboratory system for analysis of the water quality parameters.
10. The level-I laboratories, are located at sites, where physical parameters such as temperature, colour, odour, electrical conductivity, pH and dissolved oxygen of river water are observed. The level-II laboratory (NABL Accredited), located at division office, Bhopal analyzes physiochemical characteristics parameters of river water such as TDS, BOD, Ca, HCO₃, SO₄, Mg, CO₃, 5102, PO₄-P, Cl, K, Na, NH₃-N and Turbidity.
11. That, CWC Response on Issue No. 10 MPPCB has already been directed by Hon'ble NGT to monitor and submit action taken reports as well as analysis reports of the water quality in the river Narmada. However, as



20/11/2015/2

mentioned above CWC is also collecting water samples and analysing the water quality parameters at 3 locations near Dindori (MP).

12. That, the water samples collected by CWC at Dindori sites are located on Narmada river. The water quality observations are carried out at the following three locations:

- Upstream Line.
- Station Gauge line and
- Downstream Line of the river



13. That, this data is being collected as per "Uniform Protocol on Water Quality Monitoring Notification" 2005, subsequently updated during 2017, available at CPCB website, is the basis of WQ monitoring protocol of CWC.

14. That, Data observed from water quality samples of above three WQ stations, tested in NABL accredited Level-II laboratory of Central Water Commission, Narmada Division, Bhopal for the year 2021-22 is attached herewith with Annexures-1,2 & 3.

15. That, the affidavit is being filed in support of the compliance.

DEPONENT

अधिसारी अभियंता / Executive Engineer
 नर्मदा बंधन, केंद्रीय जल आयोग, बhopal
 Narmada Division, CWC, Bhopal

:VERIFICATION:

I, the above named deponent, do hereby verify on oath that the contents of the above affidavit are true and correct based on documents and record. Nothing has been concealed therein and no part thereof is false
 Signed and verified today on .08.2023 at Bhopal (MP)

DEPONENT

अधिसारी अभियंता / Executive Engineer
 नर्मदा बंधन, केंद्रीय जल आयोग, बhopal
 Narmada Division, CWC, Bhopal

IDENTIFIED BY ME
 Name..ROHIT..CHAUHAN
 Address...MNSR...
 .Person...Bhopal...
 Signature...*[Signature]*

SWORN BEFORE ME THE
 WITHEN NAMED
[Signature]
 GHULAM NIZAMUDDIN
 TAJWAR SIDDIQUI
 TE BHOPAL (M.P.)

GOVT. OF M.P.

ANNEXURE-1
WQ Data-June 2021-May 2022

Site- U/S Dindori

River-Narmada

S.No.	PARAMETERS	01/06/2021	10/06/2021	21/06/2021	01/07/2021	12/07/2021	22/07/2021	02/08/2021	10/08/2021	23/08/2021	01/09/2021	13/09/2021	21/09/2021	MIN	MAX	Average
1	DO(mg/L)	5.3	4.79	6.23	5.83	5.63	6.19	6.59	4.91	4.54	5.86	4.92	6.3	4.54	6.59	5.59
2	BOD3-27(mg/L)	1.54	1.2	0.8	1.21	1.44	0.8	1.2	0.75	1.14	1.51	1.37	1.57	0.75	1.57	1.21
3	Ca(mg/L)	27.03	59.64	28.72	22.49	24.08	29.62	19.71	27.62	26.7	25.4	22.11	27.5	19.71	59.64	28.39
4	HCO3(mg/L)	164	160	128	140	131	173	119	115	133	128	95	113	95	173	133.3
5	SO4(mg/L)	2.05	2.35	7.69	3.82	8.56	9.79	7.93	4.17	4.27	6.68	6.63	8.27	2.05	9.79	6.02
6	Mg(mg/L)	11.52	9.58	9.68	8.74	8.55	5.32	4.73	5.77	6.9	6.58	7.53	8.27	4.73	11.52	7.76
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	63.84	63.59	18.72	17.86	22.91	24.19	52.77	46.17	30.58	24.61	15.83	19.38	15.83	63.84	33.37
9	o-PO4-P(mg/L)	0.08	0.04	0.04	0.05	0.08	0.1	0.24	0.15	0.15	0.12	0.04	0.05	0.04	0.24	0.10
10	Cl(mg/L)	14.2	24.34	18.25	14.89	21.27	17.02	10.28	12.34	14.39	15.77	7.88	12.08	7.88	24.34	15.23
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH	8.15	7.99	7.7	7.1	7.23	7.63	7.5	7.55	7.1	7.47	7.48	7.04	7.04	8.15	7.50
15	Odour_Code	Odour free	-	-	-											
16	Turb(NTU)	0.4	6	23	247	80	50	130	92	15	18	111	75	0.4	247	70.6
17	Temp (°C)	24	24	28	26	26	26	23	24	24	26	24.5	24	23	28	24.96
18	Colour	Clear	-	-	-											
19	EC (µS/cm)	266	236	254	181	263	208	195	198	239	265	160	195	160	266	221.67
20	TDS(mg/L)	128	162	164	119	173	136	100	109	159	175	114	116	100	175	137.9
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1.

अधिकासी अभियंता / Executive Engineer
नर्मदा मंडल, केन्द्रीय जल आयोग, भोपाल
Narmada Division, CWC, Bhopal

ANNEXURE-1
WQ Data-June 2021-May 2022

Site- U/S Dindori														River-Narmada		
S.No.	PARAMETERS	01/06/2021	10/06/2021	21/06/2021	01/07/2021	12/07/2021	22/07/2021	02/08/2021	10/08/2021	23/08/2021	01/09/2021	13/09/2021	21/09/2021	MIN	MAX	Average
1	DO(mg/L)	5.3	4.79	6.23	5.83	5.63	6.19	6.59	4.91	4.54	5.86	4.92	6.3	4.54	6.59	5.59
2	BOD3-27(mg/L)	1.54	1.2	0.8	1.21	1.44	0.8	1.2	0.75	1.14	1.51	1.37	1.57	0.75	1.57	1.21
3	Ca(mg/L)	27.03	59.64	28.72	22.49	24.08	29.62	19.71	27.62	26.7	25.4	22.11	27.5	19.71	59.64	28.39
4	HCO3(mg/L)	164	160	128	140	131	173	119	115	133	128	95	113	95	173	133.3
5	SO4(mg/L)	2.05	2.35	7.69	3.82	8.56	9.79	7.93	4.17	4.27	6.68	6.63	8.27	2.05	9.79	6.02
6	Mg(mg/L)	11.52	9.58	9.68	8.74	8.55	5.32	4.73	5.77	6.9	6.58	7.53	8.27	4.73	11.52	7.76
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	63.84	63.59	18.72	17.86	22.91	24.19	52.77	46.17	30.58	24.61	15.83	19.38	15.83	63.84	33.37
59	o-PO4-P(mg/L)	0.08	0.04	0.04	0.05	0.08	0.1	0.24	0.15	0.15	0.12	0.04	0.05	0.04	0.24	0.10
10	Cl(mg/L)	14.2	24.34	18.25	14.89	21.27	17.02	10.28	12.34	14.39	15.77	7.88	12.08	7.88	24.34	15.23
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH	8.15	7.99	7.7	7.1	7.23	7.63	7.5	7.55	7.1	7.47	7.48	7.04	7.04	8.15	7.50
15	Odour_Code	Odour free	-	-	-											
16	Turb(NTU)	0.4	6	23	247	80	50	130	92	15	18	111	75	0.4	247	70.6
17	Temp (°C)	24	24	28	26	26	26	23	24	24	26	24.5	24	23	28	24.96
18	Colour	Clear	-	-	-											
19	EC (µS/cm)	266	236	254	181	263	208	195	198	239	265	160	195	160	266	221.67
20	TDS(mg/L)	128	162	164	119	173	136	100	109	159	175	114	116	100	175	137.9
21	T.Colliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1.

अधिकासी अभियंता / Executive Engineer
नर्मदा मंडल, केन्द्रीय जल आयोग, भोपाल
Narmada Division, CWC, Bhopal

WQ Data-June 2021-May 2022

Site- U/S Dindori														River-Narmada		
S.No.	PARAMETERS	04/10/2021	11/10/2021	21/10/2021	01/11/2021	11/11/2021	22/11/2021	01/12/2021	13/12/2021	21/12/2021	03/01/2022	11/01/2022	21/01/2022	MIN	MAX	Average
1	DO(mg/L)	6.7	5.95	5.52	6.96	7.16	6.97	7.96	7.52	7.72	6.97	7.16	6.97	5.52	7.96	6.96
2	BOD3-27(mg/L)	0.93	0.93	0.79	1.19	0.99	1.19	1.19	0.79	0.99	0.8	1.19	1.0	0.79	1.19	1.00
3	Ca(mg/L)	36.12	32.31	34.06	37.74	35.6	38.07	36.16	38.08	36.32	39.1	42.06	40.42	32.31	42.06	37.17
4	HCO3(mg/L)	185	166	176	185	180	190	176	199	166	178.03	192.09	187.4	166	199	181.71
5	SO4(mg/L)	7.61	6.15	7.41	1.14	0.63	7.84	3.67	6.13	2.99	3.15	7.17	5.91	0.63	7.84	4.98
6	Mg(mg/L)	10.36	10.27	10.45	10.78	10.97	10.97	11.04	11.42	11.04	11.38	11.88	11.88	10.27	11.88	11.04
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	22.46	22.28	20.45	25.35	24.16	25.16	25.7	25.51	25.09	25.23	26.8	26.17	20.45	26.8	24.53
9	o-PO4-P(mg/L)	0.06	0.05	0.05	0.05	0.04	0.05	0.09	0.1	0.09	0.1	0.13	0.11	0.04	0.13	0.08
10	Cl(mg/L)	13.8	9.86	11.83	10.06	12.08	12.08	9.85	13.8	7.88	9.93	17.87	13.9	7.88	17.87	11.91
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH	7.99	7.3	7.36	7.88	7.7	7.14	7.43	7.58	7.89	7.52	7.41	7.42	7.14	7.99	7.55
15	Odour_Code	Odour free	Odour free	-												
16	Turb{NTU}	17	22	7	6	5	7	6	1.4	1.5	3.2	3.5	3.3	1.4	22	6.91
17	Temp{°C}	26	26	25	19.5	29	27	17.5	18	13	15	17	16	13	29	20.75
18	Colour	Clear	-	-	-											
19	EC (µS/cm)	253	234	242	245	236	250	269	277	265	270	302	290	234	302	261.08
20	TDS(mg/L)	154	165	162	163	167	186	178	180	175	182	194	181	154	194	173.92
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2.

अधिकासी अभियंता / Executive Engineer
 नर्मदा मंडल, केन्द्रीय जल आयोग, भोपाल
 Narmada Division, CWC, Bhopal

WQ Data-June 2021-May 2022

Site- U/S Dindori

River-Narmada

S.No.	PARAMETERS	01/02/2022	14/02/2022	21/02/2022	02/03/2022	14/03/2022	21/03/2022	01/04/2022	11/04/2022	21/04/2022	04/05/2022	10/05/2022	23/05/2022	MIN	MAX	Average
1	DO(mg/L)	7.52	7.52	7.72	5.97	5.91	5.46	4.88	5.35	5.35	6.28	5.87	6.41	4.88	7.72	6.19
2	BOD3-27(mg/L)	0.99	1.19	1.19	1.79	1.58	1.95	1.76	1.98	1.78	2.13	2.01	2.17	0.99	2.17	1.71
3	Ca(mg/L)	40.01	41.19	40.01	26.06	26.63	29.76	28.53	33	28.31	29.28	30.25	30.73	26.06	41.19	31.98
4	HCO3(mg/L)	159	168	173	163	170	178	187	155	185	197	198	198	155	198	177.58
5	SO4(mg/L)	8.7	6.17	5.64	6.07	5.79	5.89	6.27	0.27	0.41	5.84	6.09	5.84	0.27	8.7	5.25
6	Mg(mg/L)	11.4	12.1	11.4	16.43	16.28	15.92	14.63	13.6	14.25	14.74	14.41	14.41	11.4	16.43	14.13
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	25.4	29.23	29.5	31.82	30.8	32.22	39.4	39.14	32.49	31.06	31.1	30.32	25.4	39.4	31.87
9	o-PO4-P(mg/L)	0.1	0.13	0.14	0.09	0.08	0.1	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.14	0.09
10	Cl(mg/L)	14.57	14.57	16.65	8.05	11.74	15.42	11.43	12.13	12.06	17.42	17.99	17.42	8.05	17.99	14.12
11	K(mg/L)	-	-	-	-	-	-	-	1.21	1.67	1.65	1.52	1.55	1.21	1.67	1.52
12	Na(mg/L)	-	-	-	-	-	-	-	12.31	14.35	14.18	14.45	14.47	12.31	14.47	13.95
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	0.11	0.01	0.01	0.02	0.01	0.11	0.04
14	pH	7.45	7.57	7.47	7.42	7.58	7.63	7.86	8.15	8.01	7.62	7.65	8	7.42	8.15	7.70
15	Odour_Code	Odour free	Oder Free	odour free	-	-	-									
16	Turb(NTU)	6.45	6.02	5.18	5.83	5.71	2.18	3.94	7.45	5.22	7.27	7.2	11.01	2.18	11.01	6.12
17	Temp(°C)	14	15.5	15	18	19.5	24	24	25	27	26	27.5	26.5	14	27.5	21.83
18	Colour	Clear	-	-	-											
19	EC (µS/cm)	271	339	358	324	328	343	309	280	330	336	340	278	271	358	319.67
20	TDS(mg/L)	198	180	189	201	204	178	198	165	171	213	217	156	156	217	189.17
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.

अधिकासी अभियंता / Executive Engineer
नर्मदा मंडल, केन्द्रीय जल आयोग, भोपाल
Narmada Division, CWC, Bhopal

ANNEXURE-2
WQ Data-June 2021-May 2022

Site- Dindori (S/G Line)

River-Narmada

S.No.	PARAMETERS	01/06/2021	10/06/2021	21/06/2021	01/07/2021	12/07/2021	22/07/2021	02/08/2021	10/08/2021	23/08/2021	01/09/2021	13/09/2021	21/09/2021	MIN	MAX	Average
1	DO(mg/L)	6.67	6.5	5.43	5.23	4.22	4.39	6.79	5.86	6.05	5.86	6.3	5.91	4.22	6.79	5.77
2	BOD3-27(mg/L)	2.52	1.37	1.61	1.21	1.43	1	0.6	1.13	1.14	1.32	2.16	1.18	0.6	2.52	1.39
3	Ca(mg/L)	30.57	31.48	31.03	24.87	25.98	33.1	22.82	23.59	27.78	24.62	28.22	26.61	22.82	33.1	27.56
4	HCO3(mg/L)	182	178	187	187	178	183	170	174	179	189	170	123	123	189	175.00
5	SO4(mg/L)	19.34	15.17	8.73	5.25	5.32	6.44	20.53	17.06	15.52	6.68	5.51	8.03	5.25	20.53	11.13
6	Mg(mg/L)	14.65	12.44	13.18	10.93	11.5	7.89	5.48	8.66	10.06	13.17	7.24	9.03	5.48	14.65	10.35
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	76.8	77.79	32.46	31.74	27.5	28.71	81.88	72.26	54.05	17.97	11.94	14.64	11.94	81.88	43.98
9	o-PO4-P(mg/L)	0.06	0.07	0.08	0.07	0.06	0.08	0.54	0.41	0.4	0.19	0.07	0.08	0.06	0.54	0.18
10	Cl(mg/L)	22.31	22.31	24.34	21.27	21.27	21.27	14.39	16.4	18.5	19.71	17.74	14.09	14.09	24.34	19.47
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH	8.08	6.89	7.52	7	6.96	7.85	7.05	7.25	7.15	7.39	7.22	7.15	6.89	8.08	7.29
15	Odour_Code(-)	Odour free	Odour less	Odour free	-	-	-									
16	Turb(NTU)	0.4	6	17	249	142	52	177	135	122	15	79	73	0.4	249	88.95
17	Temp(Degrees Celsius (°C))	26	28	26	26	25.5	26	23	24	24	26	24.5	24	23	28	25.25
18	Colour_Cod(-)	Clear	-	-	-											
19	EC_GEN(µS/cm)	260	280	285	221	197	205	175	182	248	268	170	195	170	285	223.83
20	TDS(mg/L)	124	211	181	141	126	120	98	105	171	160	116	117	98	211	139.17
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1.
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WQ Data-June 2021-May 2022

River-Narmada

Site- Dindori (S/G Line)

S.No.	PARAMETERS	04/10/2021	11/10/2021	21/10/2021	01/11/2021	11/11/2021	22/11/2021	01/12/2021	13/12/2021	21/12/2021	03/01/2022	11/01/2022	21/01/2022	MIN	MAX	Average
1	DO(mg/L)	6.14	6.7	6.7	7.36	7.16	6.37	8.16	7.33	7.13	7.36	7.16	6.97	6.14	8.16	7.05
2	BOD3-27(mg/L)	0.93	0.93	0.99	0.79	0.6	1.39	1	0.8	0.79	0.8	1.19	1	0.6	1.39	0.93
3	Ca(mg/L)	45.46	44.67	29.3	39.39	35.76	33.78	36.48	32.8	36.32	38.27	37.45	37.94	29.3	45.46	37.30
4	HCO3(mg/L)	171	166	190	185	185	160	180	134	190	206.14	192.09	196.77	134	206.14	179.67
5	SO4(mg/L)	3	3.16	3.23	4.68	4.66	8.92	3.43	2.31	4.43	4.55	3.56	4.1	2.31	8.92	4.17
6	Mg(mg/L)	6.94	7.22	13.02	10.98	9.2	10.58	11.04	10.85	10.94	11.78	11.28	11.38	6.94	13.02	10.43
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	17.07	17.28	15.72	28.28	26.91	26.74	27.68	26.18	27.33	27.33	27.2	27.24	15.72	28.28	24.58
9	o-PO4-P(mg/L)	0.09	0.08	0.07	0.04	0.03	0.02	0.07	0.04	0.08	0.09	0.08	0.08	0.02	0.09	0.06
10	Cl(mg/L)	15.77	13.8	9.86	16.1	14.09	10.06	11.83	7.88	13.8	17.87	13.9	15.88	7.88	17.87	13.40
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH	7.95	7.04	7.04	7.99	7.8	7.16	7.43	7.66	7.49	7.37	7.59	7.55	7.04	7.99	7.51
15	Odour_Code(-)	Odour free	Odour less	Odour less	Odour less	Odour free	-	-	-							
16	Turb(NTU)	19	9	6	7	6	6	5	1.3	1.4	1.3	1.2	1.3	1.2	19	5.38
17	Temp (°C)	26	25	25	19	29	27	17.5	18	13	15	17	16	13	29	20.63
18	Colour_Cod(-)	Clear	-	-	-											
19	EC_GEN(µS/cm)	258	257	239	254	243	237	265	233	269	274	269	271	233	274	255.75
20	TDS(mg/L)	157	178	172	170	173	179	183	179	176	193	177	179	157	193	176.33
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2.

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WQ Data-June 2021-May 2022

River-Narmada

Site- Dindori (S/G Line)

S.No.	PARAMETERS	01/02/2022	14/02/2022	21/02/2022	02/03/2022	14/03/2022	21/03/2022	01/04/2022	11/04/2022	21/04/2022	04/05/2022	10/05/2022	23/05/2022	MIN	MAX	Average
1	DO(mg/L)	7.72	7.72	7.92	6.17	6.3	5.85	5.27	5.54	5.74	5.62	5.61	5.73	5.27	7.92	6.27
2	BOD3-27(mg/L)	1.19	1.19	1.39	1	1.18	0.58	2.15	2.18	2.38	1.97	1.93	2.01	0.58	2.38	1.60
3	Ca(mg/L)	39.34	41.02	42.7	29.86	29.89	32.68	29.86	32.02	28.79	29.6	30.57	31.06	28.79	42.7	33.12
4	HCO3(mg/L)	159	168	177	163	170	178	188	154	182	198	200	197	154	200	177.83
5	SO4(mg/L)	9.2	8.66	9.43	8.46	8.74	8.7	6.08	2.2	1.94	4.1	4.2	4.06	1.94	9.43	6.31
6	Mg(mg/L)	11.5	11.5	11.9	13.73	13.6	12.58	6.73	14.59	16.12	15.92	14.51	14.51	6.73	16.12	13.10
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	27.18	28.16	29.01	28.31	27.24	29.19	33.44	32.93	28.63	28	28.04	27.24	27.18	33.44	28.95
9	α-PO4-P(mg/L)	0.09	0.1	0.1	0.09	0.08	0.11	0.08	0.09	0.08	0.08	0.07	0.07	0.07	0.11	0.09
10	Cl(mg/L)	8.32	14.57	16.65	12.08	11.74	13.5	14.59	15.07	11.1	22.01	22.59	22.01	8.32	22.59	15.35
11	K(mg/L)	-	-	-	-	-	-	-	1.15	1.64	1.61	1.53	1.6	1.15	1.64	1.51
12	Na(mg/L)	-	-	-	-	-	-	-	12.53	14.68	13.98	14.93	14.98	12.53	14.98	14.22
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	0.17	0.023	0.027	0.021	0.021	0.17	0.06
14	pH	7.39	7.51	7.49	7.34	7.35	7.6	7.87	8.16	7.99	7.33	7.34	7.88	7.33	8.16	7.60
15	Odour_Code(-)	Odour free	-	-	-											
16	Turb(NTU)	15.6	12.3	15.09	15.2	16.08	2.31	7.18	6.75	5.52	6.24	5.87	10.74	2.31	16.08	9.91
17	Temp(Degrees Celsius (°C))	14	15	15.5	17	19.5	24	24	24.5	26.5	26	28	26.5	14	28	21.71
18	Colour_Cod(-)	Clear	-	-	-											
19	EC_GEN(µS/cm)	273	317	320	337	346	327	315	282	319	338	341	276	273	346	315.92
20	TDS(mg/L)	180	168	171	212	214	168	198	166	167	211	215	151	151	215	185.08
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.

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ANNEXURE-3
WQ Data-June 2021-May 2022

Site- D/S Dindori

River-Narmada

S.No.	PARAMETERS	01/06/2021	10/06/2021	21/06/2021	01/07/2021	12/07/2021	22/07/2021	02/08/2021	10/08/2021	23/08/2021	01/09/2021	13/09/2021	21/09/2021	MIN	MAX	Average
1	DO(mg/L)	5.13	4.96	5.63	5.63	6.43	6.79	6.19	6.24	6.05	6.8	6.11	6.89	4.96	6.89	6.07
2	BOD3-27(mg/L)	1.03	1.01	1.01	0.81	0.84	1	1	0.57	1.14	0.94	1.19	0.98	0.57	1.19	0.96
3	Ca(mg/L)	23.5	29.02	23.66	21.34	22.99	20.91	19.09	19.86	22.04	26.97	18.97	28.51	18.97	29.02	23.07
4	HCO3(mg/L)	146	160	160	155	140	136	96	101	110	123	85	108	85	160	126.67
5	SO4(mg/L)	2.92	1.71	7.95	4.02	6.08	5.46	10.93	8.53	8.02	4.64	5.06	7.56	1.71	10.93	6.07
6	Mg(mg/L)	11.7	10.04	10.6	6.75	6.94	9.12	4.58	7.82	7.36	6.4	7.24	7.51	4.58	11.7	8.01
7	CO3(mg/L)	4.49	0	0	0	0	0	0	0	0	0	0	0	0	4.49	0.37
8	SiO2(mg/L)	71.46	70.8	28.8	28.33	27.81	22.97	57.84	46.65	31.61	21.22	11.89	15.13	11.89	71.46	36.21
9	o-PO4-P(mg/L)	0.06	0.04	0.05	0.05	0.05	0.05	0.2	0.12	0.11	0.06	0.03	0.04	0.03	0.2	0.07
10	Cl(mg/L)	18.25	16.22	16.22	12.76	19.14	21.27	16.45	10.28	14.39	13.8	9.85	16.1	9.85	21.27	15.39
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH_GEN(-)	8.30	8.14	7.62	7.22	7.25	7.72	7.52	7.57	7.5	7.47	7.54	7.1	7.1	8.3	7.58
15	Odour_Code(-)	Odour free	-	-												
16	Turb(NTU)	0.4	6	15	22	168	84	132	112	64	34	110	71	0.4	168	68.20
17	Temp(°C)	25	22	29	26	26	26	23	24	24	26	24.5	24	22	29	24.96
18	Colour_Cod(-)	Clear	-	-	-											
19	EC_GEN(µS/cm)	259	238	264	175	208	158	194	197	230	237	158	194	158	264	209.33
20	TDS(mg/L)	168	163	171	115	136	101	98	108	154	156	109	116	98	171	132.92
21	T.Colliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

1.

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WQ Data-June 2021-May 2022

River-Narmada

Site- D/S Dindori

S.No.	PARAMETERS	01/02/2022	14/02/2022	21/02/2022	02/03/2022	14/03/2022	21/03/2022	01/04/2022	11/04/2022	21/04/2022	04/05/2022	10/05/2022	23/05/2022	MIN	MAX	Average
1	DO(mg/L)	7.52	7.72	7.92	5.97	6.11	5.46	4	4.16	4.36	6.08	5.73	6.21	4	7.92	5.94
2	BOD3-27(mg/L)	1.19	1.19	0.99	1.59	1.38	1.76	1.95	1.39	2.18	2.09	1.99	2.13	0.99	2.18	1.65
3	Ca(mg/L)	39.51	41.69	40.52	32.33	32.84	35.75	31.17	30.88	31.06	25.4	26.37	26.37	25.4	41.69	32.82
4	HCO3(mg/L)	164	173	182	167	174	183	192	156	183	184	185	186	156	192	177.42
5	SO4(mg/L)	3.69	3.79	3.35	3.8	3.49	3.64	6.45	0.2	0.12	6.32	6.4	6.26	0.12	6.45	3.96
6	Mg(mg/L)	12	12.21	11.3	17.24	16.97	17.1	15.23	14.89	14.84	16.8	16.48	16.48	11.3	17.24	15.13
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	32.35	34.62	34.93	36.54	35.51	36.91	44.42	44.63	36.6	34.07	33.72	32.96	32.35	44.63	36.44
9	PO4-P(mg/L)	0.05	0.09	0.1	0.04	0.04	0.06	0.04	0.05	0.04	0.04	0.04	0.05	0.04	0.1	0.05
10	Cl(mg/L)	12.49	16.65	20.81	12.08	15.66	17.35	12.02	12.92	13.21	19.71	20.29	20.29	12.02	20.81	16.12
11	K(mg/L)	-	-	-	-	-	-	-	1.69	1.71	1.6	1.54	1.54	1.54	1.71	1.62
12	Na(mg/L)	-	-	-	-	-	-	-	15.07	14.7	14.36	14.92	14.92	14.36	15.07	14.79
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	0.44	0.023	0.025	0.027	0.023	0.44	0.13
14	pH_GEN(-)	7.41	7.51	7.53	7.47	7.52	7.77	7.91	8.1	8.05	7.77	7.78	7.98	7.41	8.1	7.73
15	Odour_Code(-)	Odour free	Odour less	Oder Free	odour free	-	-	-								
16	Turb(NTU)	25.6	25	20.12	24.02	23.6	1.08	3.03	8.11	12.37	7.35	7.15	12.44	1.08	25.6	14.16
17	Temp(°C)	14	15.5	15	17	20	23.5	24	24	27	28	28	26	-	-	-
18	Colour_Cod(-)	Clear	-	-	-											
19	EC_GEN(µS/cm)	271	341	385	312	329	331	314	288	325	334	334	250	250	385	317.83
20	TDS(mg/L)	197	182	201	192	205	170	202	166	172	213	217	156	156	217	189.42
21	T.Coliform (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

3.

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WQ Data-June 2021-May 2022

Site- D/S Dindori													River-Narmada		
S.No.	PARAMETERS	11/10/2021	21/10/2021	01/11/2021	11/11/2021	22/11/2021	01/12/2021	13/12/2021	21/12/2021	03/01/2022	11/01/2022	21/01/2022	MIN	MAX	Average
1	DO(mg/L)	6.51	5.32	7.36	6.97	7.56	7.96	7.52	7.52	7.36	6.77	7.16	5.32	7.96	7.09
2	BOD3-27(mg/L)	1.12	1.18	1.39	0.6	1.59	1.39	0.79	1.18	0.99	0.99	1.19	0.6	1.59	1.13
3	Ca(mg/L)	43.24	44.83	36.58	38.07	35.1	34.4	33.92	32.8	40.09	42.56	42.23	32.8	44.83	38.53
4	HCO3(mg/L)	156	166	190	185	180	176	166	148	159.29	173.35	168.66	148	190	169.85
5	SO4(mg/L)	4.16	4.21	2.4	2.25	8.38	5.61	5.18	4.19	5.95	7.17	6.58	2.25	8.38	5.10
6	Mg(mg/L)	3.33	2.66	9.49	10.97	9.39	12.19	12	11.9	11.88	11.88	11.78	2.66	12.19	9.77
7	CO3(mg/L)	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00
8	SiO2(mg/L)	17.66	16.8	33.94	32.55	33.08	34.42	33.85	33.43	34.27	35.34	35.12	16.8	35.34	30.95
9	o-PO4-P(mg/L)	0.05	0.04	0.03	0.03	0.02	0.06	0.06	0.05	0.76	0.08	0.07	0.02	0.76	0.11
10	Cl(mg/L)	11.83	13.79	16.1	14.09	12.08	7.88	7.88	7.88	11.91	17.87	15.88	7.88	17.87	12.47
11	K(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Na(mg/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	NH3-N(mgN/L)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	pH_GEN(-)	7.42	7.36	7.82	7.07	7.22	7.4	7.73	7.94	7.37	7.43	7.48	7.07	7.94	7.48
15	Odour_Code(-)	Odour free	Odour less	Odour free	-	-	-								
16	Turb(NTU)	22	7	6	5	7	5	1.5	1.9	1.1	1.2	1.4	1.1	22	5.37
17	Temp(Degrees Celsius (°C))	26	25	19.5	29	27	17.5	18	13	15	17	16	13	29	20.27
18	Colour_Cod(-)	Clear	-	-	-										
19	EC_GEN(µS/cm)	234	239	255	243	244	272	269	261	288	305	302	234	305	264.73
20	TDS(mg/L)	163	159	168	171	178	180	176	168	194	196	194	159	196	177.00
21	T.Coli form (MPN-100ml)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

2.

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