														River Alaknanda a	t Badrinath										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
1	May-24	08°C	7.72	24	39	11.4	1.0	40	33	07	32	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	9.52	0.08	0.11	1.4	1.0	0.10	A
													ı	River Alaknanda at	Govindghat										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
2	Sep-24	13°C	7.5	35	55	11	4	50	40		45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	9.10	0.08	0.07	1.9	1.3	0.12	A
				•							•		River Alaknan	da B/C River Dhau	ıli Ganga at Vishnu	rayag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
3	Jan-24	08°C	7.45	28	43	12.0	2.0	30	22	08	27	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.63	0.07	0.10	1.3	1.0	0.10	A
<u> </u>	Feb-24	07°C	7.62	33	51	11.8	3.0	36	26	10	31	1.0	4.0	<1.8	<1.8	<1.8	0.01	0.01	12.20	0.09	0.13	1.6	1.2	0.12	A
\vdash	Mar-24	07°C	7.50	30	47	11.6	4.0	34	22	12	32	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	13.40	0.08	0.12	1.9	1.4	0.14	A
\vdash	Apr-24 May-24	14°C 11°C	7.58 7.69	27 38	43 59	11.4	3.0 4.0	29 47	19 37	10	28 40	1.0	4.0	<1.8	<1.8 <1.8	<1.8 <1.8	0.05	0.01	12.32	0.07	0.10	1.6	1.2	0.13	A
\vdash	Jun-24	14°C	7.64	35	55	11.0	4.0	43	35	08	42	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	10.59	0.06	0.09	1.9	1.3	0.12	A
	Jul-24	15°C	7.88	40	62	11.0	5.0	50	38	12	45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.02	10.36	0.08	0.09	2.0	1.5	0.12	A
	Aug-24	14°C	7.75	43	70	10.8	6	55	43	12	50	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.02	11.21	0.11	0.07	2.6	1.9	0.12	A
	Sep-24	14°C	7.2	45	74	11	5.0.	49	40	9	45	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.01	12.92	0.07	0.15	2.3	1.8	0.11	A
	Oct-24	19°C	7.69	72	112	11	5	54	39	15	33	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.01	12.69	0.07	0.14	2.4	1.8	0.11	A
													River Dhauli G	ianga B/C River Ala	aknanda at Vishnup	rayag									
S.No.	Month	Temp		TDS (mg/l)	EC (uS/cm)	22/ (1)	Chloride		Calcium	Magnesium (mg/l)	Alkalinity	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)				Designated Best use
		Temp	pН	103 (1116/1)	EC (µS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/I)	(,,,,,	(,,	PC (WPN/100 III)	(MPN/100 ml)	Nitrate-N (mg/i)		(mg/l)	r nospilate (mg/i)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
4	Jan-24	08°C	7.88	75	115	11.4	(mg/l) 4.0	82	(mg/I) 58	Magnesium (mg/l)	(mg/l) 79	1.0	4.0	<1.8	<1.8	(MPN/100 ml) <1.8	0.04	0.01	(mg/l) 13.25	0.09	0.09	Sodium (mg/l	Potassium (mg/l)	0.09	
4	Jan-24 Feb-24						,	, , , , , , , , , , , , , , , , , , ,																	Criteria
4		08°C	7.88	75	115	11.4	4.0	82	58	24	79	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.01	13.25	0.09	0.09	1.8	1.5	0.09	Criteria A
4	Feb-24	08°C	7.88	75 84	115 128	11.4	4.0	82 89	58 61	24	79 87	1.0	4.0	<1.8	<1.8 <1.8	<1.8	0.04	0.01	13.25	0.09	0.09	1.8	1.5	0.09	Criteria A A
4	Feb-24 Mar-24	08°C 06°C	7.88 8.07 7.93	75 84 93	115 128 143	11.4 11.2 11.0	4.0 5.0 6.0	82 89 99	58 61 67	24 28 32	79 87 95	1.0 1.0 1.0	4.0 4.0 4.0	<1.8 <1.8 <1.8	<1.8 <1.8 <1.8	<1.8 <1.8 <1.8	0.04 0.05 0.06	0.01 0.02 0.03	13.25 11.42 12.33	0.09 0.11 0.09	0.09 0.07 0.09	1.8 2.2 2.4	1.5 1.8 2.1	0.09 0.10 0.10	A A A
4	Feb-24 Mar-24 Apr-24	08°C 06°C 06°C	7.88 8.07 7.93 7.80	75 84 93 80	115 128 143 122	11.4 11.2 11.0 11.0	4.0 5.0 6.0 5.0	82 89 99 85	58 61 67 57	24 28 32 28	79 87 95 82	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03	0.01 0.02 0.03 0.01	13.25 11.42 12.33 11.25	0.09 0.11 0.09 0.06	0.09 0.07 0.09 0.07	1.8 2.2 2.4 2.1	1.5 1.8 2.1 1.9	0.09 0.10 0.10 0.10	A A A A
4	Feb-24 Mar-24 Apr-24 May-24	08°C 06°C 06°C 13°C	7.88 8.07 7.93 7.80 7.98	75 84 93 80 98	115 128 143 122 149	11.4 11.2 11.0 11.0	4.0 5.0 6.0 5.0 6.0	82 89 99 85 106	58 61 67 57 82	24 28 32 28 24	79 87 95 82 96	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04	0.01 0.02 0.03 0.01 0.01	13.25 11.42 12.33 11.25 11.68	0.09 0.11 0.09 0.06 0.08	0.09 0.07 0.09 0.07 0.11	1.8 2.2 2.4 2.1 2.6	1.5 1.8 2.1 1.9 2.1	0.09 0.10 0.10 0.10 0.11	A A A A
4	Feb-24 Mar-24 Apr-24 May-24 Jun-24	08°C 06°C 06°C 13°C 09°C	7.88 8.07 7.93 7.80 7.98	75 84 93 80 98	115 128 143 122 149 147	11.4 11.2 11.0 11.0 10.8	4.0 5.0 6.0 5.0 6.0 6.0	82 89 99 85 106 104	58 61 67 57 82 80	24 28 32 28 24 24	79 87 95 82 96 90	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04	0.01 0.02 0.03 0.01 0.01 0.02	13.25 11.42 12.33 11.25 11.68 10.87	0.09 0.11 0.09 0.06 0.08	0.09 0.07 0.09 0.07 0.11 0.10	1.8 2.2 2.4 2.1 2.6 2.8	1.5 1.8 2.1 1.9 2.1 2.0	0.09 0.10 0.10 0.10 0.11 0.11	A A A A A A
4	Feb-24 Mar-24 Apr-24 May-24 Jun-24	08°C 06°C 06°C 13°C 09°C 15°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09	75 84 93 80 98 96	115 128 143 122 149 147 153	11.4 11.2 11.0 11.0 10.8 11.0	4.0 5.0 6.0 5.0 6.0 6.0 7.0	82 89 99 85 106 104 109	58 61 67 57 82 80 83	24 28 32 28 24 24 24	79 87 95 82 96 90 95	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05	0.01 0.02 0.03 0.01 0.01 0.02 0.02	13.25 11.42 12.33 11.25 11.68 10.87 10.95	0.09 0.11 0.09 0.06 0.08 0.07 0.09	0.09 0.07 0.09 0.07 0.11 0.10 0.11	1.8 2.2 2.4 2.1 2.6 2.8 3.1	1.5 1.8 2.1 1.9 2.1 2.0 2.5	0.09 0.10 0.10 0.10 0.11 0.12 0.13	A A A A A A
4	Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24	08°C 06°C 06°C 13°C 09°C 15°C 14°C 13°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09	75 84 93 80 98 96 101	115 128 143 122 149 147 153	11.4 11.2 11.0 11.0 10.8 11.0	4.0 5.0 6.0 5.0 6.0 6.0 7.0	82 89 99 85 106 104 109 120	58 61 67 57 82 80 83	24 28 32 28 24 24 26 40	79 87 95 82 96 90 95	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8	0.09 0.10 0.10 0.10 0.11 0.12 0.13 0.09	A A A A A A A
4	Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	08°C 06°C 06°C 13°C 09°C 15°C 14°C 14°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09 8.02 7.94	75 84 93 80 98 96 101 93 69	115 128 143 122 149 147 153 151	11.4 11.2 11.0 11.0 10.8 11.0 10.8	4.0 5.0 6.0 5.0 6.0 6.0 7.0 6	82 89 99 85 106 104 109 120 102	58 61 67 57 82 80 83 80	24 28 32 28 24 24 26 40 25	79 87 95 82 96 90 95 90	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05 0.07	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95 11.00	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11 0.10 0.14	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8 2.6	0.09 0.10 0.10 0.10 0.11 0.12 0.13 0.09 0.08	A A A A A A A A A
S.No.	Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	08°C 06°C 06°C 13°C 09°C 15°C 14°C 14°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09 8.02 7.94	75 84 93 80 98 96 101 93 69	115 128 143 122 149 147 153 151	11.4 11.2 11.0 11.0 10.8 11.0 10.8	4.0 5.0 6.0 5.0 6.0 6.0 7.0 6	82 89 99 85 106 104 109 120 102	58 61 67 57 82 80 83 80	24 28 32 28 24 24 26 40 25	79 87 95 82 96 90 95 90	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05 0.07	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95 11.00	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11 0.10 0.14	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8 2.6	0.09 0.10 0.10 0.10 0.11 0.12 0.13 0.09 0.08	A A A A A A A A A A
	Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	08°C 06°C 13°C 09°C 15°C 14°C 14°C 18°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09 8.02 7.94 7.92	75 84 93 80 98 96 101 93 69 83	115 128 143 122 149 147 153 151 109	11.4 11.2 11.0 11.0 10.8 11.0 10.8 11 11.1	4.0 5.0 6.0 5.0 6.0 6.0 7.0 6	82 89 99 85 106 104 109 120 102 105	58 61 67 57 82 80 83 80 77 87	24 28 32 28 24 24 26 40 25 18	79 87 95 82 96 90 95 90 88 73	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) River Alaknan	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05 0.07 0.06	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03 0.03 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95 11.00 14.89 14.23	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11 0.10 0.14 0.15	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2 3.1 3.1	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8 2.6 2.6	0.09 0.10 0.10 0.10 0.11 0.12 0.13 0.09 0.08	A A A A A A A A C Besignated Best use (DBU) Water Quality
S.No.	Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	08°C 06°C 13°C 09°C 15°C 14°C 13°C 14°C 18°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09 8.02 7.94 7.92	75 84 93 80 98 96 101 93 69 83	115 128 143 122 149 147 153 151 109 131	11.4 11.2 11.0 11.0 10.8 11.0 10.8 11 11.1	4.0 5.0 6.0 5.0 6.0 6.0 7.0 6 6 5	82 89 99 85 106 104 109 120 102 105	58 61 67 57 82 80 83 80 77 87	24 28 32 28 24 24 24 26 40 25 18	79 87 95 82 96 90 95 90 88 73 Alkalinity (mg/f)	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05 0.07 0.06	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03 0.03 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95 11.00 14.89 14.23	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11 0.10 0.14 0.15	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2 3.1 3.1	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8 2.6 2.6 Potassium (mg/l)	0.09 0.10 0.10 0.11 0.12 0.13 0.09 0.08 0.08	A A A A A A A A CIGBU) Water Quality Criteria
S.No.	Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	08°C 06°C 06°C 13°C 09°C 15°C 14°C 14°C 18°C Temp 07°C	7.88 8.07 7.93 7.80 7.98 7.95 8.09 8.02 7.94 7.92	75 84 93 80 98 96 101 93 69 83	115 128 143 122 149 147 153 151 109 131 EC (µS/cm) 88	11.4 11.2 11.0 11.0 10.8 11.0 10.8 11 11.1 11.1	4.0 5.0 6.0 5.0 6.0 7.0 6 6 5 Chloride (mg/l)	82 89 99 85 106 104 109 120 102 105 Hardness (mg/l)	58 61 67 57 82 80 83 80 77 87 Calcium (mg/l) 48	24 28 32 28 24 24 24 26 40 25 18	79 87 95 82 96 90 95 90 88 73 Alkalinity (mg/l) 60	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.05 0.06 0.03 0.04 0.04 0.05 0.05 0.07 0.06	0.01 0.02 0.03 0.01 0.01 0.02 0.02 0.03 0.03 0.03	13.25 11.42 12.33 11.25 11.68 10.87 10.95 11.00 14.89 14.23 Sulphate (mg/l) 12.82	0.09 0.11 0.09 0.06 0.08 0.07 0.09 0.08 0.08 0.08	0.09 0.07 0.09 0.07 0.11 0.10 0.11 0.14 0.15	1.8 2.2 2.4 2.1 2.6 2.8 3.1 3.2 3.1 3.1 3.1	1.5 1.8 2.1 1.9 2.1 2.0 2.5 2.8 2.6 2.6 2.6 1.3	0.09 0.10 0.10 0.11 0.12 0.13 0.09 0.08 0.08	A A A A A A A A A A A A A A A A A A A

	May-24	10°C	7.80	72	110	11.0	5.0	79	50	20	75	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.03	10.41	0.06	0.09	2.1	1.6	0.10	
-			-	73		_	_		59		75							_	-						A
\vdash	Jun-24	15°C	7.77	92	139	11.0	5.0	72	52	20	78	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.02	11.24	0.06	0.10	2.0	1.8	0.10	A
<u> </u>	Jul-24	15°C	7.92	98	150	10.8	6.0	80	56	24	84	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.03	11.02	0.07	0.09	2.4	2.2	0.12	Α
<u> </u>	Aug-24	14°C	7.99	95	153	11	5	90	60	30	84	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.02	10.85	0.08	0.07	2.9	2.1	0.08	A
<u> </u>	Sep-24	13°C	7.57	51	80	10.9	5	84	57	27	61	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	15.02	0.11	0.18	2.7	2	0.08	A
	Oct-24	19°C	7.7	78	126	11.2	5	87	64	23	60	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	14.88	0.11	0.19	2.9	2	0.08	A
								ı		ı	<u> </u>	ı	River Alakr	anda B/C River Na	ndakini at Nandpra	yag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
6	Jan-24	09°C	7.91	72	110	11.4	3.0	73	51	22	68	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	10.31	0.12	0.13	1.7	1.4	0.09	Α
	Feb-24	08°C	8.02	78	119	11.2	4.0	81	57	24	72	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	11.63	0.08	0.16	2.0	1.7	0.10	A
	Mar-24	08°C	7.95	90	138	11.0	5.0	92	65	27	82	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	13.41	0.09	0.14	2.4	2.0	0.11	A
	Apr-24	16°C	7.82	82	124	10.8	6.0	86	62	24	77	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	11.46	0.08	0.06	2.2	1.7	0.10	A
	May-24	17°C	7.95	92	140	10.6	6.0	96	71	25	87	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.57	0.09	0.12	2.6	1.9	0.12	A
	Jun-24	17°C	7.90	90	137	10.8	6.0	94	69	25	84	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.97	0.09	0.10	2.7	1.7	0.12	A
	Jul-24	12°C	7.97	95	145	10.6	7.0	98	71	27	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.02	10.25	0.08	0.12	3.0	2.3	0.13	A
	Aug-24	12°C	7.86	90	144	10.6	6	105	75	30	90	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.01	10.92	0.09	0.10	3.1	2.2	0.09	A
	Sep-24	18°C	7.97	64	102	10.8	5	74	59	15	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	13.98	0.09	0.14	2.9	2.1	0.08	Α
	Oct-24	18°C	7.79	96	151	10.8	5	96	75	21	67	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.04	14.25	0.09	0.14	3	2.1	0.09	A
													River Nand	akini B/C River Ala	aknanda at Nandpra	yag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	River Nand	akini B/C River Ala	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l]	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
S.No.	Month Jan-24	Temp	рн 8.03	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/l)		I	1	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	sar 0.11	(DBU) Water Quality
\vdash							(mg/l)		(mg/l)		(mg/l)		COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	, ,		(mg/l)			(8)			(DBU) Water Quality Criteria
\vdash	Jan-24	10°C	8.03	48	73	11.0	(mg/l) 2.0	54	(mg/l) 44	10	(mg/l) 51	1.0	COD (mg/l) 4.0	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	0.04	0.02	(mg/l) 10.20	0.09	0.09	1.8	1.6	0.11	(DBU) Water Quality Criteria
\vdash	Jan-24 Feb-24	10°C 09°C	8.03 7.94	48	73 81	11.0	(mg/l) 2.0 3.0	54 56	(mg/I) 44 42	10 14	(mg/l) 51 54	1.0	4.0 4.0	TC (MPN/100 ml) 26 34	FC (MPN/100 ml) 22 27	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8	0.04	0.02	(mg/l) 10.20 11.30	0.09	0.09	1.8	1.6	0.11	(DBU) Water Quality Criteria A A
\vdash	Jan-24 Feb-24 Mar-24	10°C 09°C 09°C	8.03 7.94 7.81	48 53 48	73 81 73	11.0 10.8 10.6	(mg/l) 2.0 3.0 4.0	54 56 52	(mg/l) 44 42 40	10 14 12	(mg/l) 51 54 50	1.0 1.0 1.0	4.0 4.0 4.0	TC (MPN/100 ml) 26 34 22	FC (MPN/100 ml) 22 27 17	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8	0.04 0.03 0.05	0.02 0.01 0.02	(mg/l) 10.20 11.30 12.43	0.09 0.07 0.14	0.09 0.10 0.11	1.8 2.1 2.3	1.6 1.8 1.9	0.11 0.12 0.14	(DBU) Water Quality Criteria A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24	10°C 09°C 09°C 17°C	8.03 7.94 7.81 7.69	48 53 48 51	73 81 73 78	11.0 10.8 10.6 10.4	(mg/l) 2.0 3.0 4.0 5.0	54 56 52 56	(mg/l) 44 42 40 46	10 14 12 10	(mg/l) 51 54 50 53	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0	TC (MPN/100 ml) 26 34 22 32	FC (MPN/100 ml) 22 27 17 26	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03	0.02 0.01 0.02 0.03	(mg/l) 10.20 11.30 12.43 11.64	0.09 0.07 0.14 0.09	0.09 0.10 0.11 0.08	1.8 2.1 2.3 2.1	1.6 1.8 1.9	0.11 0.12 0.14 0.12	(DBU) Water Quality Criteria A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24	10°C 09°C 09°C 17°C 14°C	8.03 7.94 7.81 7.69 7.52	48 53 48 51 59	73 81 73 78 90	11.0 10.8 10.6 10.4 10.6	(mg/l) 2.0 3.0 4.0 5.0 4.0	54 56 52 56 63	(mg/l) 44 42 40 46 55	10 14 12 10 08	(mg/l) 51 54 50 53	1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0	TC (MPN/100 ml) 26 34 22 32 21	FC (MPN/100 ml) 22 27 17 26 17	Fecal Steptococcss (MPN/100 ml)	0.04 0.03 0.05 0.03 0.04	0.02 0.01 0.02 0.03 0.01	(mg/l) 10.20 11.30 12.43 11.64 10.96	0.09 0.07 0.14 0.09 0.11	0.09 0.10 0.11 0.08 0.11	1.8 2.1 2.3 2.1 2.4	1.6 1.8 1.9 1.8 2.0	0.11 0.12 0.14 0.12 0.13	(DBU) Water Quality Criteria A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	10°C 09°C 09°C 17°C 14°C	8.03 7.94 7.81 7.69 7.52 7.54	48 53 48 51 59 57	73 81 73 78 90 87	11.0 10.8 10.6 10.4 10.6 10.8	(mg/l) 2.0 3.0 4.0 5.0 4.0 4.0	54 56 52 56 63 60	(mg/l) 44 42 40 46 55	10 14 12 10 08 10	(mg/l) 51 54 50 53 60 55	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0 4.0	TC (MPN/100 ml) 26 34 22 32 21 26	FC (MPN/100 ml) 22 27 17 26 17	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03	0.02 0.01 0.02 0.03 0.01 0.01	(mg/l) 10.20 11.30 12.43 11.64 10.96	0.09 0.07 0.14 0.09 0.11 0.10	0.09 0.10 0.11 0.08 0.11 0.10	1.8 2.1 2.3 2.1 2.4 2.8	1.6 1.8 1.9 1.8 2.0 2.0	0.11 0.12 0.14 0.12 0.13	(DBU) Water Quality Criteria A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	10°C 09°C 09°C 17°C 14°C 16°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66	48 53 48 51 59 57 61	73 81 73 78 90 87 94	11.0 10.8 10.6 10.4 10.6 10.8	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0	54 56 52 56 63 60 65	(mg/l) 44 42 40 46 55 50 52	10 14 12 10 08 10	(mg/l) 51 54 50 53 60 55 59	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38	FC (MPN/100 ml) 22 27 17 26 17 17	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03 0.05	0.02 0.01 0.02 0.03 0.01 0.01 0.02	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87	0.09 0.07 0.14 0.09 0.11 0.10 0.12	0.09 0.10 0.11 0.08 0.11 0.10 0.11	1.8 2.1 2.3 2.1 2.4 2.8 3.1	1.6 1.8 1.9 1.8 2.0 2.0 2.4	0.11 0.12 0.14 0.12 0.13 0.16 0.17	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	10°C 09°C 09°C 11°C 14°C 16°C 13°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75	48 53 48 51 59 57 61 65	73 81 73 78 90 87 94	11.0 10.8 10.6 10.4 10.6 10.8 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7	54 56 52 56 63 60 65 70	(mg/l) 44 42 40 46 55 50 52 60	10 14 12 10 08 10 13	(mg/l) 51 54 50 53 60 55 59 62	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26	FC (MPN/100 ml) 22 27 17 26 17 17 22	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68	0.09 0.07 0.14 0.09 0.11 0.10 0.12	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.09	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	10°C 09°C 09°C 17°C 14°C 16°C 13°C 13°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51	48 53 48 51 59 57 61 65	73 81 73 78 90 87 94 102	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6	54 56 52 56 63 60 65 70	(mg/l) 44 42 40 46 55 50 52 60 43	10 14 12 10 08 10 13 10	(mg/l) 51 54 50 53 60 55 59 62	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27	FC (MPN/100 ml) 22 27 17 26 17 17 27 17 21 22 21	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.09 0.17	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	10°C 09°C 09°C 17°C 14°C 16°C 13°C 13°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51	48 53 48 51 59 57 61 65	73 81 73 78 90 87 94 102	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6	54 56 52 56 63 60 65 70	(mg/l) 44 42 40 46 55 50 52 60 43	10 14 12 10 08 10 13 10	(mg/l) 51 54 50 53 60 55 59 62	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27	FC (MPN/100 ml) 22 27 17 26 17 17 27 17 22 21 22	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.09 0.17	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4 2.2	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
7	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	10°C 09°C 09°C 17°C 14°C 16°C 13°C 13°C 17°C 20°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51 7.92	48 53 48 51 59 57 61 65 58 81	73 81 73 78 90 87 94 102 90 130	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2 10.4	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6 4	54 56 52 56 63 60 65 70 61 68	(mg/l) 44 42 40 46 55 50 52 60 43 48	10 14 12 10 08 10 13 10 18 20	(mg/l) 51 54 50 53 60 55 59 62 51 54	1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27 anda A/C River Na	22 27 17 26 17 17 17 22 21 22 andakini at Nandpra	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <p>1.8 Fecal Steptococcss</p>	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09 0.09	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92 13.42	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.09 0.17 0.16	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1 2.9	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4 2.2	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A
S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	10°C 09°C 09°C 17°C 14°C 16°C 13°C 13°C 17°C 20°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51 7.92	48 53 48 51 59 57 61 65 58 81 TDS (mg/l)	73 81 73 78 90 87 94 102 90 130	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2 10.4 10.9	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6 4	54 56 52 56 63 60 65 70 61 68	(mg/l) 44 42 40 46 55 50 52 60 43 48	10 14 12 10 08 10 13 10 18 20	(mg/l) 51 54 50 53 60 55 59 62 51 54 Alkalinity (mg/l)	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) COD (mg/l)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27 anda A/C River Na TC (MPN/100 ml)	FC (MPN/100 ml) 22 27 17 26 17 17 17 22 21 22 21 22 Indakini at Nandpra	Fecal Steptococcss (MPN/100 ml)	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09 0.09	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92 13.42 Sulphate (mg/l)	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.10 0.11 0.09 0.17 0.16	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1 2.9	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4 2.2	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1 0.1 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	10°C 09°C 17°C 14°C 16°C 13°C 13°C 17°C 20°C Temp	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51 7.92	48 53 48 51 59 57 61 65 58 81 TDS (mg/l) 63	73 81 73 78 90 87 94 102 90 130 EC (µS/cm) 97	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2 10.4 10.9	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6 4 Chloride (mg/l) 3.0	54 56 52 56 63 60 65 70 61 68	(mg/l) 44 42 40 46 55 50 52 60 43 48 Calcium (mg/l) 53	10 14 12 10 08 10 13 10 18 20 Magnesium (mg/l)	(mg/l) 51 54 50 53 60 55 59 62 51 54 Alkalinity (mg/l) 66	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5) A (<6) BDL (<5)	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27 anda A/C River Na TC (MPN/100 ml) <1.8	FC (MPN/100 ml) 22 27 17 26 17 17 17 22 21 22 Indakini at Nandpra FC (MPN/100 ml) <1.8	Fecal Steptococcss (MPN/100 ml)	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09 0.09 Nitrate-N (mg/l)	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92 13.42 Sulphate (mg/l) 11.73	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.09 0.17 0.16	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1 2.9	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4 2.2	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1 0.1 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	10°C 09°C 17°C 14°C 16°C 13°C 13°C 17°C 20°C Temp 09°C 08°C	8.03 7.94 7.81 7.69 7.52 7.54 7.66 7.75 7.51 7.92	48 53 48 51 59 57 61 65 58 81 TDS (mg/l) 63 69	73 81 73 78 90 87 94 102 90 130 EC (µ\$\(\sigma \) (m\$\) 97	11.0 10.8 10.6 10.4 10.6 10.8 10.4 10.2 10.4 10.9	(mg/l) 2.0 3.0 4.0 5.0 4.0 5.0 7 6 4 Chloride (mg/l) 3.0 4.0	54 56 52 56 63 60 65 70 61 68	(mg/l) 44 42 40 46 55 50 52 60 43 48 Calcium (mg/l) 53	10 14 12 10 08 10 13 10 18 20 Magnesium (mg/l) 17	(mg/l) 51 54 50 53 60 55 59 62 51 54 Alkalinity (mg/l) 66 70	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) COD (mg/l) 4.0 4.0	TC (MPN/100 ml) 26 34 22 32 21 26 38 26 26 27 anda A/C River Na TC (MPN/100 ml) <1.8 <1.8	FC (MPN/100 ml) 22 27 17 26 17 17 17 22 21 22 mdakini at Nandpra FC (MPN/100 ml) <1.8 <1.8	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.04 0.03 0.05 0.03 0.04 0.03 0.05 0.07 0.09 0.09 Nitrate-N (mg/l) 0.02 0.04	0.02 0.01 0.02 0.03 0.01 0.01 0.02 0.03 0.05 0.05	(mg/l) 10.20 11.30 12.43 11.64 10.96 11.87 10.55 9.68 12.92 13.42 sulphate (mg/l) 11.73 12.85	0.09 0.07 0.14 0.09 0.11 0.10 0.12 0.10 0.09 0.09	0.09 0.10 0.11 0.08 0.11 0.10 0.11 0.10 0.11 0.09 0.17 0.16	1.8 2.1 2.3 2.1 2.4 2.8 3.1 3.2 3.1 2.9 Sodium (mg/l) 1.6 1.9	1.6 1.8 1.9 1.8 2.0 2.0 2.4 2.3 2.4 2.2 Potassium (mg/l) 1.3 1.6	0.11 0.12 0.14 0.12 0.13 0.16 0.17 0.1 0.1 0.10	(DBU) Water Quality Criteria A A A A A A A A A A A A A

1	May-24	16°C	7.79	81	124	10.4	6.0	85	64	21	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	10.99	0.07	0.08	2.7	2.1	0.13	A
	Jun-24	16°C	7.81	78	118	10.6	5.0	83	62	21	76	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	11.78	0.07	0.06	2.5	2.0	0.12	A
	Jul-24	13°C	7.71	84	129	10.6	6.0	88	65	23	80	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.04	10.3	0.09	0.08	2.8	2.2	0.13	A
	Aug-24	13°C	7.76	87	140	10.4	5	92	68	24	81	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	10.84	0.08	0.09	2.9	2.1	0.09	A
	Sep-24	18°C	7.65	57	89	10.5	5	69	45	24	48	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	13.19	0.10	0.13	2.8	2.2	0.09	A
	Oct-24	20°C	7.86	92	149	10.8	5	84	58	26	61	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	13.83	0.10	0.14	2.9	2.1	0.09	A
													River Alak	nanda B/C River P	indar at Karanpraya	ag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
9	Jan-24	10°C	8.06	70	106	11.0	3.0	78	62	16	72	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.48	0.09	0.10	1.3	1.1	0.06	Criteria A
	Feb-24	08°C	8.19	79	120	10.8	3.0	83	66	17	81	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	13.41	0.06	0.13	1.7	1.3	0.08	A
	Mar-24	08°C	7.79	98	149	10.6	4.0	99	79	20	90	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	15.24	0.13	0.12	2.0	1.7	0.09	A
	Apr-24	12°C	7.60	86	131	10.6	4.0	88	71	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	13.66	0.10	0.10	2.2	1.9	0.10	A
	May-24	19°C	7.68	97	147	10.4	5.0	99	76	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.02	12.05	0.08	0.13	2.9	2.3	0.13	A
	Jun-24	14°C	7.67	96	146	10.4	6.0	97	74	23	87	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	11.68	0.07	0.13	2.8	2.2	0.12	A
	Jul-24	14°C	7.8	99	151	10.4	6.0	101	76	25	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	11.53	0.09	0.13	3.0	2.5	0.13	A
	Aug-24	15°C	8.02	90	142	10.8	6	105	72	33	97	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.01	11.21	0.08	0.11	2.8	2.3	0.08	A
	Sep-24	20°C	7.78	56	88	10.6	6	71	56	15	62	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	12.96	0.13	0.10	2.7	2.1	0.08	A
	Oct-24	20°C	7.95	95	154	10.4	4	91	69	22	63	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	13.09	0.13	0.12	3	2.1	0.09	A
	1	<u> </u>		•			<u> </u>			1		1	River Pinc	lar B/C River Alakn	anda at Karanpraya	ag									Designated Rost use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	River Pinc	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
S.No.	Month Jan-24	Temp 11°C	рн 8.18	TDS (mg/l) 79	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/l)	l		I	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/I)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	5AR 0.09	(DBU) Water Quality
_		·	·				(mg/l)		(mg/l)		(mg/l)		COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)			(mg/l)					-	(DBU) Water Quality Criteria
_	Jan-24	11°C	8.18	79	120	10.4	(mg/l) 3.0	95	(mg/I) 71	24	(mg/l) 86	1.0	COD (mg/l) 4.0	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	0.06	0.04	(mg/I) 11.98	0.07	0.09	2.0	1.8	0.09	(DBU) Water Quality Criteria A
_	Jan-24 Feb-24 Mar-24 Apr-24	11°C 09°C 09°C 13°C	8.18 8.04 7.87 7.75	79 85 95 80	120 129 145 122	10.4 10.2 9.8 10.0	(mg/l) 3.0 4.0 6.0 5.0	95 97 102 85	(mg/l) 71 75 77 65	24 22 25 20	(mg/l) 86 90 97 83	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0	TC (MPN/100 ml) 27 22 26 39	FC (MPN/100 ml) 22 17 22 27	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05	0.04 0.02 0.01 0.02	(mg/l) 11.98 12.42 13.68 11.69	0.07 0.12 0.12 0.08	0.09 0.12 0.14 0.09	2.0 2.4 2.8 2.5	1.8 2.0 2.3 2.1	0.09 0.11 0.12 0.12	(DBU) Water Quality Criteria A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24	11°C 09°C 09°C 13°C 18°C	8.18 8.04 7.87 7.75 7.91	79 85 95 80 94	120 129 145 122 142	10.4 10.2 9.8 10.0 9.8	(mg/l) 3.0 4.0 6.0 5.0 6.0	95 97 102 85 98	(mg/l) 71 75 77 65 73	24 22 25 20 25	(mg/l) 86 90 97 83 96	1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0	TC (MPN/100 ml) 27 22 26 39 32	EC (MPN/100 ml) 22 17 22 27 26	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09	0.04 0.02 0.01 0.02 0.04	(mg/l) 11.98 12.42 13.68 11.69 11.20	0.07 0.12 0.12 0.08 0.12	0.09 0.12 0.14 0.09 0.12	2.0 2.4 2.8 2.5 3.0	1.8 2.0 2.3 2.1 2.5	0.09 0.11 0.12 0.12 0.13	(DBU) Water Quality Criteria A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	11°C 09°C 09°C 13°C 18°C	8.18 8.04 7.87 7.75 7.91 7.94	79 85 95 80 94 92	120 129 145 122 142 140	10.4 10.2 9.8 10.0 9.8 9.6	(mg/l) 3.0 4.0 6.0 5.0 6.0 6.0	95 97 102 85 98	(mg/l) 71 75 77 65 73 77	24 22 25 20 25 19	(mg/l) 86 90 97 83 96 99	1.0 1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0	TC (MPN/100 ml) 27 22 26 39 32 26	FC (MPN/100 ml) 22 17 22 27 26 22	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09	0.04 0.02 0.01 0.02 0.04 0.03	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69	0.07 0.12 0.12 0.08 0.12 0.10	0.09 0.12 0.14 0.09 0.12 0.10	2.0 2.4 2.8 2.5 3.0 3.3	1.8 2.0 2.3 2.1 2.5 2.4	0.09 0.11 0.12 0.12 0.13 0.15	(DBU) Water Quality Criteria A A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	11°C 09°C 09°C 13°C 18°C 15°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99	79 85 95 80 94 92 103	120 129 145 122 142 140 157	10.4 10.2 9.8 10.0 9.8 9.6 9.4	(mg/l) 3.0 4.0 6.0 5.0 6.0 6.0 7.0	95 97 102 85 98 96	(mg/l) 71 75 77 65 73 77 83	24 22 25 20 25 19 23	(mg/l) 86 90 97 83 96 99 103	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	TC (MPN/100 ml) 27 22 26 39 32 26 40	FC (MPN/100 ml) 22 17 22 27 26 22 22	Fecal Steptococcss (MPN/100 mi) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08	0.04 0.02 0.01 0.02 0.04 0.03 0.05	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00	0.07 0.12 0.12 0.08 0.12 0.10 0.13	0.09 0.12 0.14 0.09 0.12 0.10 0.12	2.0 2.4 2.8 2.5 3.0 3.3 3.7	1.8 2.0 2.3 2.1 2.5 2.4 2.8	0.09 0.11 0.12 0.12 0.13 0.15 0.16	(DBU) Water Quality Criteria A A A A A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	11°C 09°C 09°C 13°C 15°C 15°C 16°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99	79 85 95 80 94 92 103 102	120 129 145 122 142 140 157	10.4 10.2 9.8 10.0 9.8 9.6 9.4	(mg/l) 3.0 4.0 6.0 5.0 6.0 7.0 6	95 97 102 85 98 96 106	(mg/l) 71 75 77 65 73 77 83 80	24 22 25 20 25 19 23 30	(mg/l) 86 90 97 83 96 99 103	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39	EC (MPN/100 ml) 22 17 22 27 26 22 22 33	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08	0.04 0.02 0.01 0.02 0.04 0.03 0.05	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	11°C 09°C 09°C 13°C 18°C 15°C 15°C 16°C 19°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99 7.83	79 85 95 80 94 92 103 102 74	120 129 145 122 142 140 157 160	10.4 10.2 9.8 10.0 9.8 9.6 9.4 9.6 10.1	(mg/l) 3.0 4.0 6.0 5.0 6.0 7.0 6	95 97 102 85 98 96 106 110	(mg/l) 71 75 77 65 73 77 83 80 59	24 22 25 20 25 19 23 30	(mg/l) 86 90 97 83 96 99 103 98 62	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33	FC (MPN/100 ml) 22 17 22 27 26 22 22 33 23	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08 0.05	0.04 0.02 0.01 0.02 0.04 0.03 0.05 0.02	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88 14.58	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10 0.15	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8 2.7	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	11°C 09°C 09°C 13°C 15°C 15°C 16°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99	79 85 95 80 94 92 103 102	120 129 145 122 142 140 157	10.4 10.2 9.8 10.0 9.8 9.6 9.4	(mg/l) 3.0 4.0 6.0 5.0 6.0 7.0 6	95 97 102 85 98 96 106	(mg/l) 71 75 77 65 73 77 83 80	24 22 25 20 25 19 23 30	(mg/l) 86 90 97 83 96 99 103	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33 34	FC (MPN/100 ml) 22 17 22 27 26 22 22 33 23 27	Fecal Steptococcss (MPN/100 mi) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08	0.04 0.02 0.01 0.02 0.04 0.03 0.05	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
_	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	11°C 09°C 09°C 13°C 18°C 15°C 15°C 16°C 19°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99 7.83	79 85 95 80 94 92 103 102 74 108	120 129 145 122 142 140 157 160	10.4 10.2 9.8 10.0 9.8 9.6 9.4 9.6 10.1	(mg/l) 3.0 4.0 6.0 5.0 6.0 7.0 6 5 5	95 97 102 85 98 96 106 110 78 106	(mg/l) 71 75 77 65 73 77 83 80 59 84	24 22 25 20 25 19 23 30	(mg/l) 86 90 97 83 96 99 103 98 62 92	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33 34	FC (MPN/100 ml) 22 17 22 27 26 22 22 33 23	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08 0.05 0.05 0.05	0.04 0.02 0.01 0.02 0.04 0.03 0.05 0.02 0.02 0.02	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88 14.58 14.77	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11 0.11 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10 0.15	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4 3.2 3.3	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8 2.7 2.9	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1	(DBU) Water Quality Criteria A A A A A A A A A A A A A
10 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24 Oct-24	11°C 09°C 09°C 13°C 18°C 15°C 15°C 16°C 19°C 20°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99 7.83 7.86 8.13	79 85 95 80 94 92 103 102 74 108	120 129 145 122 142 140 157 160 114 175	10.4 10.2 9.8 10.0 9.8 9.6 9.4 9.6 10.1 10	(mg/l) 3.0 4.0 6.0 5.0 6.0 6.0 7.0 6 5 5 Chloride (mg/l)	95 97 102 85 98 96 106 110 78 106	(mg/l) 71 75 77 65 73 77 83 80 59 84 Calcium (mg/l)	24 22 25 20 25 19 23 30 19 22	(mg/l) 86 90 97 83 96 99 103 98 62 92 Alkalinity (mg/l)	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) COD (mg/l)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33 34 Tranda A/C River P	FC (MPN/100 ml) 22 17 22 27 26 22 22 33 23 27 indar at Karanpraya	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08 0.05 0.05 0.06	0.04 0.02 0.01 0.02 0.04 0.03 0.05 0.02 0.02 0.02	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88 14.58 14.77	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11 0.11 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10 0.13	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4 3.2 3.3	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8 2.7 2.9	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
10	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	11°C 09°C 09°C 13°C 18°C 15°C 15°C 16°C 19°C 20°C Temp	8.18 8.04 7.87 7.75 7.91 7.94 7.99 7.83 7.86 8.13	79 85 95 80 94 92 103 102 74 108	120 129 145 122 142 140 157 160 114 175	10.4 10.2 9.8 10.0 9.8 9.6 9.4 9.6 10.1 10	(mg/l) 3.0 4.0 6.0 5.0 6.0 7.0 6 5 5 Chloride (mg/l) 2.0	95 97 102 85 98 96 106 110 78 106	(mg/l) 71 75 77 65 73 77 83 80 59 84 Calcium (mg/l) 69	24 22 25 20 25 19 23 30 19 22 Magnesium (mg/l) 19	(mg/l) 86 90 97 83 96 99 103 98 62 92 Alkalinity (mg/l) 81	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) COD (mg/l) 4.0	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33 34 manda A/C River P TC (MPN/100 ml) <1.8	FC (MPN/100 ml) 22 17 22 27 26 22 23 27 indar at Karanpraya FC (MPN/100 ml) <1.8	Fecal Steptococcss (MPN/100 mi) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08 0.05 0.06	0.04 0.02 0.01 0.02 0.04 0.03 0.05 0.02 0.02 0.02 0.02	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88 14.77 Sulphate (mg/l) 10.82	0.07 0.12 0.08 0.12 0.10 0.13 0.11 0.11 0.11 Phosphate (mg/l) 0.09	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10 0.15 0.13	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4 3.2 3.3 Sodium (mg/l) 1.7	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8 2.7 2.9 Potassium (mg/l) 1.4	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
10 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24 Oct-24	11°C 09°C 09°C 13°C 18°C 15°C 15°C 16°C 19°C 20°C	8.18 8.04 7.87 7.75 7.91 7.94 7.99 7.83 7.86 8.13	79 85 95 80 94 92 103 102 74 108	120 129 145 122 142 140 157 160 114 175	10.4 10.2 9.8 10.0 9.8 9.6 9.4 9.6 10.1 10	(mg/l) 3.0 4.0 6.0 5.0 6.0 6.0 7.0 6 5 5 Chloride (mg/l)	95 97 102 85 98 96 106 110 78 106	(mg/l) 71 75 77 65 73 77 83 80 59 84 Calcium (mg/l)	24 22 25 20 25 19 23 30 19 22	(mg/l) 86 90 97 83 96 99 103 98 62 92 Alkalinity (mg/l)	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) COD (mg/l)	TC (MPN/100 ml) 27 22 26 39 32 26 40 39 33 34 Tranda A/C River P	FC (MPN/100 ml) 22 17 22 27 26 22 22 33 23 27 indar at Karanpraya	Fecal Steptococcss (MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.05 0.03 0.05 0.09 0.08 0.08 0.05 0.05 0.06	0.04 0.02 0.01 0.02 0.04 0.03 0.05 0.02 0.02 0.02	(mg/l) 11.98 12.42 13.68 11.69 11.20 12.69 11.00 10.88 14.58 14.77	0.07 0.12 0.12 0.08 0.12 0.10 0.13 0.11 0.11 0.11	0.09 0.12 0.14 0.09 0.12 0.10 0.12 0.10 0.13	2.0 2.4 2.8 2.5 3.0 3.3 3.7 3.4 3.2 3.3	1.8 2.0 2.3 2.1 2.5 2.4 2.8 2.8 2.7 2.9	0.09 0.11 0.12 0.12 0.13 0.15 0.16 0.1 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A

	Apr-24	12°C	7.69	82	125	10.4	4.0	87	68	19	85	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	11.70	0.09	0.10	2.3	1.7	0.11	A
	May-24	18°C	7.83	99	151	10.2	5.0	105	81	24	102	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	10.78	0.11	0.08	2.8	2.1	0.12	A
	Jun-24	16°C	7.80	96	148	10.0	5.0	107	84	23	104	1.0	4.0	<1.8	<1.8	<1.8	0.02	0.01	12.18	0.10	0.07	2.9	2.3	0.12	A
	Jul-24	15°C	7.88	98	148	10.0	6.0	110	82	28	107	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.02	10.05	0.13	0.08	3.2	2.5	0.13	A
	Aug-24	16°C	7.92	92	146	9.8	5	115	76	39	108	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	9.72	0.11	0.10	3.1	2.4	0.09	A
	Sep-24	19°C	7.8	63	101	10.2	5	75	61	14	63	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.03	0.02	14.02	0.09	0.14	2.9	2.6	0.08	A
	Oct-24	20°C	7.94	97	157	10.2	5	102	79	23	71	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.04	0.02	14.28	0.09	0.16	3.2	2.5	0.09	A
														River Mandakini a	t Kedarnath										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
12	May-24	14°C	7.83	18	30	11.6	1.0	22	17	05	20	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	6.52	0.07	0.11	1.3	1.0	0.12	A
													•	River Mandakini a	t Gaurikund	·				•					Designated Best use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
13	Aug-24	12°C	7.68	26	38	10.8	2	28	18	10	23	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	7.92	0.09	0.08	2.6	2.3	0.21	А
	<u> </u>		<u> </u>	<u> </u>			Chloride	1	Calcium	1	Alkalinity			River Mandakini at		Fecal Steptococcss			Sulphate						Designated Best use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
14	Aug-24	14°C	7.63	28	42	10.6	3	37	24	13	35	BDL (<1)	BDL (<5)	<1.8	<1.8 knanda at Rudrapra	<1.8	0.07	0.03	8.11	0.1	0.1	2.7	2.2	0.12	Α
	I .		Π					1					Kivei ivialiu	akiiii b/C kivei Ala	Kilaliua at Kuulapia		I			ı					Designated Best use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
5.No. 15	Month Jan-24	Temp 07°C	рн 7.68	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/I)		BOD (mg/l)	COD (mg/l) 4.0	TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8		Nitrate-N (mg/l)	Nitrite-N (mg/l) 0.02		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/I)	Potassium (mg/l)	0.14	
			Ļ.				(mg/l)		(mg/l)		(mg/l)					(MPN/100 ml)			(mg/l)						Criteria
	Jan-24	07°C	7.68	51	78	11.2	(mg/l) 3.0	61	(mg/I) 48	13	(mg/I) 57	1.0	4.0	<1.8	<1.8	(MPN/100 ml) <1.8	0.08	0.02	(mg/I) 18.63	0.14	0.19	2.6	2.2	0.14	Criteria A
	Jan-24 Feb-24	07°C 08°C	7.68 7.75	51	78 92	11.2	(mg/l) 3.0 3.0	61 67	(mg/I) 48 52	13 15	(mg/l) 57 61	1.0	4.0	<1.8 <1.8	<1.8 <1.8	(MPN/100 ml) <1.8 <1.8	0.08	0.02	(mg/l) 18.63 19.52	0.14 0.13	0.19 0.12	2.6	2.2	0.14	Criteria A A
	Jan-24 Feb-24 Mar-24	07°C 08°C 13°C 12°C	7.68 7.75 7.83 7.52 7.73	51 60 46 50 59	78 92 71 77 90	11.2 11.0 10.8	(mg/l) 3.0 3.0 5.0	61 67 51 54 61	(mg/l) 48 52 38 42 48	13 15 13	(mg/l) 57 61 48 52 57	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08	0.02 0.04 0.03	(mg/l) 18.63 19.52 18.39 17.46 10.82	0.14 0.13 0.10 0.13 0.11	0.19 0.12 0.09 0.10 0.12	2.6 2.8 3.0 2.7 2.9	2.2 2.4 2.7 2.5 2.6	0.14 0.15 0.18 0.16 0.16	A A A
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	07°C 08°C 13°C 12°C 19°C	7.68 7.75 7.83 7.52 7.73 7.79	51 60 46 50 59	78 92 71 77 90 82	11.2 11.0 10.8 10.6 10.4	(mg/l) 3.0 3.0 5.0 5.0 6.0	61 67 51 54 61 64	(mg/l) 48 52 38 42 48 45	13 15 13 12 13 19	(mg/l) 57 61 48 52 57 59	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08	0.02 0.04 0.03 0.04 0.03 0.04	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16	0.14 0.13 0.10 0.13 0.11 0.10	0.19 0.12 0.09 0.10 0.12 0.12	2.6 2.8 3.0 2.7 2.9 2.8	2.2 2.4 2.7 2.5 2.6 2.4	0.14 0.15 0.18 0.16 0.16 0.15	A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	07°C 08°C 13°C 12°C 19°C 18°C	7.68 7.75 7.83 7.52 7.73 7.79	51 60 46 50 59 54 55	78 92 71 77 90 82 80	11.2 11.0 10.8 10.6 10.4 10.6 10.1	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 5.0	61 67 51 54 61 64 69	(mg/l) 48 52 38 42 48 45 47	13 15 13 12 13 19 22	(mg/l) 57 61 48 52 57 59 55	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08	0.02 0.04 0.03 0.04 0.03 0.04 0.04	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55	0.14 0.13 0.10 0.13 0.11 0.10 0.10	0.19 0.12 0.09 0.10 0.12 0.12 0.14	2.6 2.8 3.0 2.7 2.9 2.8 2.4	2.2 2.4 2.7 2.5 2.6 2.4 2.6	0.14 0.15 0.18 0.16 0.16 0.15 0.12	A A A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	07°C 08°C 13°C 12°C 19°C 18°C 13°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59	51 60 46 50 59 54 55	78 92 71 77 90 82 80	11.2 11.0 10.8 10.6 10.4 10.6 10.1	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5	61 67 51 54 61 64 69 58	(mg/l) 48 52 38 42 48 45 47 35	13 15 13 12 13 19 22 23	(mg/l) 57 61 48 52 57 59 55 52	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07	A A A A A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59	51 60 46 50 59 54 55 67	78 92 71 77 90 82 80 102	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0	61 67 51 54 61 64 69 58	(mg/l) 48 52 38 42 48 45 47 35 36	13 15 13 12 13 19 22 23 18	(mg/l) 57 61 48 52 57 59 55 52 38	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07	A A A A A A A A A A A A A A A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	07°C 08°C 13°C 12°C 19°C 18°C 13°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59	51 60 46 50 59 54 55	78 92 71 77 90 82 80	11.2 11.0 10.8 10.6 10.4 10.6 10.1	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5	61 67 51 54 61 64 69 58	(mg/l) 48 52 38 42 48 45 47 35	13 15 13 12 13 19 22 23	(mg/l) 57 61 48 52 57 59 55 52	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<\$) BDL (<\$) BDL (<\$)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07	A A A A A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59	51 60 46 50 59 54 55 67	78 92 71 77 90 82 80 102	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0	61 67 51 54 61 64 69 58	(mg/l) 48 52 38 42 48 45 47 35 36	13 15 13 12 13 19 22 23 18	(mg/l) 57 61 48 52 57 59 55 52 38	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<\$) BDL (<\$) BDL (<\$)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07	A A A A A A A A A A A A A A A A A A A
	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59	51 60 46 50 59 54 55 67	78 92 71 77 90 82 80 102	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0	61 67 51 54 61 64 69 58	(mg/l) 48 52 38 42 48 45 47 35 36	13 15 13 12 13 19 22 23 18	(mg/l) 57 61 48 52 57 59 55 52 38	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<\$) BDL (<\$) BDL (<\$)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07	A A A A A A A A A
15	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C 21°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59 7.57 8.18	51 60 46 50 59 54 55 67 55	78 92 71 77 90 82 80 102 89	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0 10.6	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0 6.0	61 67 51 54 61 64 69 58 54 63	(mg/l) 48 52 38 42 48 45 47 35 36 52	13 15 13 12 13 19 22 23 18 11	(mg/l) 57 61 48 52 57 59 55 52 38 55	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<\$) BDL (<\$) BDL (<\$)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09 0.07	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96 23.14	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13 0.14	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5 2.6	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1 2.9	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07 0.07	A A A A A A A A A Cosignated Best use (DBU) Water Quality
15 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C 21°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59 7.57 8.18	51 60 46 50 59 54 55 67 55 55	78 92 71 77 90 82 80 102 89 88	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0 10.6	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0 6.0	61 67 51 54 61 64 69 58 54 63	(mg/l) 48 52 38 42 48 45 47 35 36 52 Calclum (mg/l)	13 15 13 12 13 19 22 23 18 11	(mg/l) 57 61 48 52 57 59 55 52 38 55	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) COD (mg/l)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09 0.07	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96 23.14	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13 0.14	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5 2.6	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1 2.9	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07 0.07	A A A A A A A A A A A A A A A A A A A
15 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	07°C 08°C 13°C 12°C 19°C 18°C 16°C 16°C 21°C	7.68 7.75 7.83 7.52 7.79 7.56 7.59 7.57 8.18	51 60 46 50 59 54 55 67 55 55	78 92 71 77 90 82 80 102 89 88	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0 10.6 10.8	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 4.5 4.0 6.0 Chloride (mg/l) 3.0	61 67 51 54 61 64 69 58 54 63	(mg/l) 48 52 38 42 48 45 47 35 36 52 Calcium (mg/l) 75	13 15 13 12 13 19 22 23 18 11	(mg/l) 57 61 48 52 57 59 55 52 38 55 Alkalinity (mg/l) 88	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BCDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09 0.07 0.07	0.02 0.04 0.03 0.04 0.03 0.04 0.04 0.05 0.02 0.02	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96 23.14 Sulphate (mg/l) 17.28	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.10 0.09 0.09 0.09	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13 0.14 Fluoride (mg/l) 0.17	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5 2.6 Sodium (mg/l)	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1 2.9	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07 0.07 0.07	A A A A A A A A A A A A A A A A A A A
15 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Oct-24 Month Jan-24 Feb-24	07°C 08°C 13°C 12°C 19°C 18°C 13°C 16°C 21°C Temp 08°C 09°C	7.68 7.75 7.83 7.52 7.73 7.79 7.56 7.59 7.57 8.18	51 60 46 50 59 54 55 67 55 55 55	78 92 71 77 90 82 80 102 89 88 Ecc (µs/cm) 129	11.2 11.0 10.8 10.6 10.4 10.6 10.1 10.0 10.6 10.8	(mg/l) 3.0 3.0 5.0 5.0 6.0 6.0 5.0 4.5 4.0 6.0 Chloride (mg/l) 3.0 4.0	61 67 51 54 61 64 69 58 54 63	(mg/l) 48 52 38 42 48 45 47 35 36 52 Calcium (mg/l) 75	13 15 13 12 13 19 22 23 18 11 Magnesium (mg/l) 21 25	(mg/l) 57 61 48 52 57 59 55 52 38 55 Alkalinity (mg/l) 88	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5) Aliver Alakna cod (mg/l) 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.08 0.13 0.11 0.09 0.08 0.08 0.07 0.09 0.07 0.07	0.02 0.04 0.03 0.04 0.03 0.04 0.05 0.02 0.02 Nitrite-N (mg/l) 0.01 0.04	(mg/l) 18.63 19.52 18.39 17.46 10.82 12.16 10.55 10.21 22.96 23.14 Sulphate (mg/l) 17.28 20.41	0.14 0.13 0.10 0.13 0.11 0.10 0.10 0.09 0.09 0.09 Phosphate (mg/l) 0.12 0.11	0.19 0.12 0.09 0.10 0.12 0.12 0.14 0.11 0.13 0.14 Fluoride (mg/l) 0.17 0.11	2.6 2.8 3.0 2.7 2.9 2.8 2.4 2.6 2.5 2.6 Sodium (mg/l) 2.0 2.3	2.2 2.4 2.7 2.5 2.6 2.4 2.6 2.2 2.1 2.9 Potassium (mg/l) 1.6 2.0	0.14 0.15 0.18 0.16 0.16 0.15 0.12 0.07 0.07 0.07	A A A A A A A A A A A A A A A A A A A

	Jun-24	1000	7.00	110	1.67	10.0	6.0	119	87	22	108	1.0	4.0	<1.8	c1.0	<1.0	0.08	0.02	12.02	0.13	0.12	2.4	2.7	0.14	
\vdash		19°C	7.88	110	167		6.0		_	32	_				<1.8	<1.8	1		13.92		0.12	3.4			A
\vdash	Jul-24	14°C	7.62	115	168	9.9	6.0	128	89	39	110	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.02	0.09	0.12	2.2	2.8	0.11	A
\vdash	Aug-24	15°C	7.62	110	171	9.9	5.0	110	57	53	96	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	13.82	0.11	0.10	2.3	2.7	0.07	A
\vdash	Sep-24	20°C	7.51	64	101	10	5.0	75	61	14	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	23.66	0.11	0.10	2.4	2.6	0.07	A
	Oct-24	21°C	8.27	93	150	10.7	5.0	75	61	14	62	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	23.70	0.11	0.12	2.6	2.8	0.08	A
	<u> </u>						<u> </u>			<u> </u>	<u> </u>	<u> </u>	River Alakn	anda A/C River Ma	ndakini at Rudrapr	ayag	<u> </u>		<u> </u>				<u> </u>		Designated Best use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	l) Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
17	Jan-24	07°C	7.93	72	110	11.0	3.0	87	69	18	79	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.02	20.43	0.13	0.20	2.2	2.0	0.10	A
_	Feb-24	08°C	7.80	85	130	10.8	4.0	95	72	23	89	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.03	21.96	0.12	0.13	2.6	2.3	0.12	A
	Mar-24	12°C	7.61	80	123	10.6	5.0	86	66	20	77	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	19.85	0.08	0.11	2.9	2.5	0.14	A
	Apr-24	13°C	7.56	76	116	10.6	4.0	80	64	16	74	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.02	18.77	0.10	0.09	3.0	2.3	0.15	A
	May-24	18°C	7.82	95	145	10.4	5.0	98	76	22	92	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.04	13.55	0.09	0.11	3.3	2.5	0.14	A
	Jun-24	18°C	7.81	97	148	10.2	5.0	100	80	20	96	1.0	4.0	<1.8	<1.8	<1.8	0.13	0.05	14.97	0.10	0.11	3.8	2.9	0.16	A
	Jul-24	13°C	7.59	101	158	10.0	5.0	104	82	22	98	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.10	0.02	12.96	0.10	0.09	2.7	2.9	0.12	A
	Aug-24	15°C	7.66	98	155	9.8	4.8	98	52	46	86	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.11	0.03	12.65	0.12	0.10	2.4	2.3	0.07	A
	Sep-24	20°C	7.64	61	98	9.9	5.0	71	51	20	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.10	0.12	0.12	2.6	2.4	0.07	A
	Oct-24	21°C	8.16	66	99	10.6	5.0	71	59	12	60	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.34	0.12	0.13	2.7	2.8	0.08	A
													River Ma	ndakini D/S at Agu	stmuni, Rudrapray	ag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	l) Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
S.No. 18	Month Jan-24	Temp 07°C	рн 7.54	TDS (mg/l)	EC (μS/cm)	DO (mg/I)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/l)	COD (mg/l) 4.0	TC (MPN/100 ml) <1.8	FC (MPN/100 ml) <1.8		Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l) 0.15	Sodium (mg/I	Potassium (mg/l)	SAR 0.12	(DBU) Water Quality
\vdash			<u> </u>	-			(mg/l)		(mg/l)		(mg/l)					(MPN/100 ml)			(mg/l)				1		(DBU) Water Quality Criteria
\vdash	Jan-24	07°C	7.54	40	61	11.6	(mg/l) 2.0	55	(mg/l) 40	15	(mg/l) 48	1.0	4.0	<1.8	<1.8	(MPN/100 ml) <1.8	0.12	0.04	(mg/l) 18.93	0.16	0.15	2.1	1.9	0.12	(DBU) Water Quality Criteria
\vdash	Jan-24 Feb-24	07°C	7.54 7.66	40 47	61 72	11.6 11.4	(mg/l) 2.0 3.0	55 59	(mg/l) 40 42	15 17	(mg/l) 48 52	1.0	4.0	<1.8 <1.8	<1.8	(MPN/100 ml) <1.8 <1.8	0.12	0.04	(mg/l) 18.93 22.43	0.16	0.15	2.1	1.9	0.12 0.14	(DBU) Water Quality Criteria A A
\vdash	Jan-24 Feb-24 Mar-24	07°C 07°C 14°C	7.54 7.66 7.70	40 47 35	61 72 54	11.6 11.4 11.0	(mg/l) 2.0 3.0 4.0	55 59 44	(mg/l) 40 42 30	15 17 14	(mg/l) 48 52 40	1.0 1.0 1.0	4.0 4.0 4.0	<1.8 <1.8 <1.8	<1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8	0.12 0.10 0.08	0.04 0.06 0.03	(mg/l) 18.93 22.43 20.39	0.16 0.09 0.06	0.15 0.10 0.08	2.1 2.4 2.7	1.9 2.1 2.3	0.12 0.14 0.18	(DBU) Water Quality Criteria A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24	07°C 07°C 14°C	7.54 7.66 7.70 7.44	40 47 35 40	61 72 54 61	11.6 11.4 11.0 10.8	(mg/l) 2.0 3.0 4.0 5.0	55 59 44 46	(mg/l) 40 42 30 33	15 17 14 13	(mg/l) 48 52 40 43	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09	0.04 0.06 0.03 0.01	(mg/l) 18.93 22.43 20.39 19.74	0.16 0.09 0.06 0.09	0.15 0.10 0.08 0.11	2.1 2.4 2.7 2.2	1.9 2.1 2.3 1.9	0.12 0.14 0.18 0.14	(DBU) Water Quality Criteria A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24	07°C 07°C 14°C 14°C	7.54 7.66 7.70 7.44 7.63	40 47 35 40 48	61 72 54 61 73	11.6 11.4 11.0 10.8 10.6	(mg/l) 2.0 3.0 4.0 5.0 5.0	55 59 44 46 52	(mg/l) 40 42 30 33 41	15 17 14 13	(mg/l) 48 52 40 43	1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09	0.04 0.06 0.03 0.01 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70	0.16 0.09 0.06 0.09 0.11	0.15 0.10 0.08 0.11 0.12	2.1 2.4 2.7 2.2 2.6	1.9 2.1 2.3 1.9 2.2	0.12 0.14 0.18 0.14 0.16	(DBU) Water Quality Criteria A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	07°C 07°C 14°C 14°C 19°C	7.54 7.66 7.70 7.44 7.63 7.70	40 47 35 40 48 32	61 72 54 61 73 50	11.6 11.4 11.0 10.8 10.6	(mg/l) 2.0 3.0 4.0 5.0 5.0	55 59 44 46 52 56	(mg/l) 40 42 30 33 41 47	15 17 14 13 11 09	(mg/l) 48 52 40 43 50 54	1.0 1.0 1.0 1.0 1.0	4.0 4.0 4.0 4.0 4.0 4.0	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.09	0.04 0.06 0.03 0.01 0.03 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97	0.16 0.09 0.06 0.09 0.11	0.15 0.10 0.08 0.11 0.12 0.10	2.1 2.4 2.7 2.2 2.6 2.4	1.9 2.1 2.3 1.9 2.2	0.12 0.14 0.18 0.14 0.16 0.14	(DBU) Water Quality Criteria A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	07°C 07°C 14°C 14°C 19°C 19°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68	40 47 35 40 48 32 57	61 72 54 61 73 50 88	11.6 11.4 11.0 10.8 10.6 10.6	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0	55 59 44 46 52 56 59	(mg/l) 40 42 30 33 41 47 45	15 17 14 13 11 09	(mg/l) 48 52 40 43 50 54	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08	0.04 0.06 0.03 0.01 0.03 0.03 0.04	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97	0.16 0.09 0.06 0.09 0.11 0.11	0.15 0.10 0.08 0.11 0.12 0.10 0.10	2.1 2.4 2.7 2.2 2.6 2.4 1.9	1.9 2.1 2.3 1.9 2.2 1.3 2.4	0.12 0.14 0.18 0.14 0.16 0.14 0.14	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66	40 47 35 40 48 32 57 62	61 72 54 61 73 50 88 92	11.6 11.4 11.0 10.8 10.6 10.6 10.3	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0	55 59 44 46 52 56 59 45	(mg/l) 40 42 30 33 41 47 45 29	15 17 14 13 11 09 14	(mg/t) 48 52 40 43 50 54 52 41	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1	0.16 0.09 0.06 0.09 0.11 0.11 0.12	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.09	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54	40 47 35 40 48 32 57 62 56	61 72 54 61 73 50 88 92	11.6 11.4 11.0 10.8 10.6 10.6 10.3 10.1	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0	55 59 44 46 52 56 59 45	(mg/l) 40 42 30 33 41 47 45 29 24	15 17 14 13 11 09 14 16 25	(mg/l) 48 52 40 43 50 54 52 41 29	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.09	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54	40 47 35 40 48 32 57 62 56	61 72 54 61 73 50 88 92	11.6 11.4 11.0 10.8 10.6 10.6 10.3 10.1	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0	55 59 44 46 52 56 59 45	(mg/l) 40 42 30 33 41 47 45 29 24	15 17 14 13 11 09 14 16 25	(mg/l) 48 52 40 43 50 54 52 41 29	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.09	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
18	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C 18°C 20°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54	40 47 35 40 48 32 57 62 56 53	61 72 54 61 73 50 88 92 90 86	11.6 11.4 11.0 10.8 10.6 10.6 10.3 10.1 10.7	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0 5.0 Chloride	55 59 44 46 52 56 59 45 49	(mg/l) 40 42 30 33 41 47 45 29 24 50	15 17 14 13 11 09 14 16 25	(mg/l) 48 52 40 43 50 54 52 41 29 61	1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09 0.07 0.07	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49 23.26	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1 0.11 0.11	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.10 0.10 0.11 0.13	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8 2.7	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A
18 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C 18°C 20°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54 8.26	40 47 35 40 48 32 57 62 56 53	61 72 54 61 73 50 88 92 90 86	11.6 11.4 11.0 10.8 10.6 10.3 10.1 10.7	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0 Chloride (mg/l)	55 59 44 46 52 56 59 45 49 61	(mg/l) 40 42 30 33 41 47 45 29 24 50	15 17 14 13 11 09 14 16 25 11	(mg/l) 48 52 40 43 50 54 52 41 29 61	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09 0.07 0.07	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49 23.26	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1 0.11 0.11	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.10 0.11 0.13	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8 2.7	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
18 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C 18°C 20°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54 8.26	40 47 35 40 48 32 57 62 56 53	61 72 54 61 73 50 88 92 90 86	11.6 11.4 11.0 10.8 10.6 10.3 10.1 10.7	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0 Chloride (mg/l)	55 59 44 46 52 56 59 45 49 61	(mg/l) 40 42 30 33 41 47 45 29 24 50 Calcium (mg/l) 38	15 17 14 13 11 09 14 16 25 11	(mg/l) 48 52 40 43 50 54 52 41 29 61 Alkalinity (mg/l) 39	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09 0.07 0.07	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03 0.03 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49 23.26 Sulphate (mg/l) 7.25	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1 0.11 0.11	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.10 0.11 0.13	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8 2.7	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3 1.7 Potassium (mg/l) 1.7	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month May-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C 18°C 20°C Temp	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54 8.26	40 47 35 40 48 32 57 62 56 53	61 72 54 61 73 50 88 92 90 86	11.6 11.4 11.0 10.8 10.6 10.6 10.3 10.1 10.7 11.0	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0 5.0 5.0 4.0 4.0 Chloride	55 59 44 46 52 56 59 45 49 61	(mg/l) 40 42 30 33 41 47 45 29 24 50 Calclum (mg/l) 38	15 17 14 13 11 09 14 16 25 11 Magnesium (mg/l)	(mg/l) 48 52 40 43 50 54 52 41 29 61 Alkalinity (mg/l) 39	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1) BDL (<1)	4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09 0.07 0.07	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03 0.03 0.03	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49 23.26 Sulphate (mg/l) 7.25	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1 0.11 0.11	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.10 0.11 0.13	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8 2.7	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3 1.7 Potassium (mg/l) 1.7	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09 0.09	(DBU) Water Quality Criteria A A A A A A A A A A A A A
S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month May-24	07°C 07°C 14°C 14°C 19°C 19°C 13°C 17°C 18°C 10°C 18°C 17°C	7.54 7.66 7.70 7.44 7.63 7.70 7.68 7.66 7.54 8.26	40 47 35 40 48 32 57 62 56 53 TDS (mg/l)	61 72 54 61 73 50 88 92 90 86 EC (µ5/cm) 67	11.6 11.4 11.0 10.8 10.6 10.6 10.3 10.1 10.7 11.0 DO (mg/l) 11.2	(mg/l) 2.0 3.0 4.0 5.0 5.0 5.0 4.0 4.0 5.0 Chloride (mg/l) 2.0	55 59 44 46 52 56 59 45 49 61	(mg/l) 40 42 30 33 41 47 45 29 24 50 Calcium (mg/l) 38	15 17 14 13 11 09 14 16 25 11 Magnesium (mg/l) 09	(mg/l) 48 52 40 43 50 54 52 41 29 61 Alkalinity (mg/l) Alkalinity (mg/l)	1.0 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BOD (mg/l) BOD (mg/l)	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BOL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5) BDL (<5)	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	<1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.12 0.10 0.08 0.09 0.09 0.08 0.08 0.09 0.07 0.07	0.04 0.06 0.03 0.01 0.03 0.03 0.04 0.02 0.03 0.03 0.03 0.01	(mg/l) 18.93 22.43 20.39 19.74 16.70 18.97 15.52 16.1 23.49 23.26 Sulphate (mg/l) 7.25	0.16 0.09 0.06 0.09 0.11 0.11 0.12 0.1 0.11 0.11 0.11 Phosphate (mg/l)	0.15 0.10 0.08 0.11 0.12 0.10 0.10 0.10 0.11 0.13	2.1 2.4 2.7 2.2 2.6 2.4 1.9 2.5 2.8 2.7	1.9 2.1 2.3 1.9 2.2 1.3 2.4 2.1 2.3 2.3 Potassium (mg/l) 1.7	0.12 0.14 0.18 0.14 0.16 0.14 0.14 0.08 0.09 0.09 SAR 0.13	(DBU) Water Quality Criteria A A A A A A A A A A A A A A A A A A A

S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
21	May-24	15°C	7.55	39	61	11.0	3.0	41	33	08	35	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	8.11	0.07	0.09	2.1	1.6	0.14	A
													River Bhagir	athi D/S at Uttark	ashi, Uttarkasi Dis	trict	•								•
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
22	Jan-24	16°C	7.85	59	91	10.8	2.0	63	48	15	57	1.0	4.0	47	39	<1.8	0.08	0.03	20.11	0.15	0.20	2.8	2.3	0.15	A
	Feb-24	12°C	7.71	66	99	10.6	3.0	72	54	18	63	1.0	4.0	48	40	<1.8	0.11	0.02	21.52	0.13	0.17	3.3	2.7	0.17	A
	Mar-24	14°C	7.65	75	114	10.4	4.0	79	63	16	71	1.0	4.0	41	34	<1.8	0.07	0.03	20.11	0.10	0.09	3.1	2.4	0.15	A
	Apr-24	20°C	7.79	83	127	10.2	5.0	88	69	19	81	1.0	4.0	48	41	<1.8	0.09	0.04	17.60	0.09	0.11	2.9	2.1	0.13	A
	May-24	18°C	7.90	96	146	10.0	6.0	99	75	24	90	1.0	4.0	47	40	<1.8	0.11	0.05	19.46	0.08	0.15	3.3	2.3	0.14	A
	Jun-24	17°C	7.87	90	137	10.0	6.0	101	80	21	94	1.0	4.0	46	33	<1.8	0.13	0.07	21.22	0.08	0.15	3.8	2.6	0.16	A
	Jul-24	15°C	7.55	70	102	10.8	4.0	55	38	17	40	BDL (<1)	BDL (<5)	47	40	<1.8	0.09	0.04	17.63	0.07	0.13	1.8	3.1	0.10	A
	Aug-24	14°C	7.44	64	107	10.1	3.8	57	38	19	41	BDL (<1)	BDL (<5)	48	41	<1.8	0.09	0.03	13.42	0.09	0.10	2.6	3.3	0.15	A
	Sep-24	19°C	7.42	66	104	10.2	5.0	59	35	24	38	BDL (<1)	BDL (<5)	33	27	<1.8	0.04	0.03	18.93	0.13	0.14	2.7	3.2	0.15	A
	Oct-24	19°C	7.57	58	91	10.2	5.0	66	51	15	53	BDL (<1)	BDL (<5)	41	24	<1.8	0.04	0.03	20.06	0.13	0.15	2.4	3.1	0.13	A
														River Yamuna a	t Barkot										
23	Jan-24	11°C	8.01	70	106	10.8	2.0	67	55	12	62	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	17.96	0.08	0.18	1.9	1.6	0.10	A
	Feb-24	11°C	7.88	64	97	10.6	3.0	62	47	15	59	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.05	20.41	0.13	0.20	2.2	1.8	0.12	A
	Mar-24	13°C	7.59	50	76	10.6	4.0	55	44	11	48	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	17.20	0.10	0.17	2.5	2.0	0.15	A
	Apr-24	16°C	7.68	55	84	10.4	4.0	58	49	09	52	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.03	16.10	0.11	0.09	2.1	1.8	0.12	A
	May-24	16°C	7.82	61	93	10.2	5.0	63	52	11	57	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	18.41	0.13	0.15	2.5	2.0	0.14	A
	Jun-24	16°C	7.60	64	97	10.0	6.0	66	57	09	61	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.01	16.96	0.12	0.13	2.9	2.1	0.15	A
	Jul-24	14°C	7.62	65	94	10.2	5.0	60	42	18	34	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	20.25	0.11	0.12	5.4	4.2	0.30	A
	Aug-24	18°C	7.64	53	87	10.0	4.6	56	42	14	43	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.10	0.01	17.65	0.10	0.10	4.7	4.1	0.22	A
	Sep-24	21°C	7.78	55	84	10.1	5.0	58	43	15	40	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.05	19.99	0.11	0.17	4.5	3.9	0.21	A
	Oct-24	20°C	8.13	76	119	10.2	6.0	61	46	15	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.11	0.05	18.96	0.11	0.17	4.2	3.9	0.19	A
													River Alakı	nanda B/C River Bh	agirathi at Devpray	rag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
24	Jan-24	13°C	7.78	60	91	10.8	4.0	73	51	22	65	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.04	11.96	0.16	0.10	2.4	2.3	0.12	A
	Feb-24	13°C	7.68	71	108	10.6	5.0	82	57	25	78	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.03	12.63	0.20	0.15	2.9	2.6	0.14	A
	Mar-24	13°C	8.02	60	92	10.4	5.0	70	48	22	64	1.0	4.0	<1.8	<1.8	<1.8	0.07	0.02	13.41	0.13	0.13	3.2	2.8	0.17	A
	Apr-24	17°C	7.80	67	102	10.2	5.0	73	53	20	69	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	12.42	0.11	0.10	3.4	2.6	0.17	A
	May-24	20°C	7.96	84	127	10.0	6.0	89	64	25	86	1.0	4.0	<1.8	<1.8	<1.8	0.08	0.02	13.11	0.13	0.15	3.7	2.8	0.17	A
	Jun-24	16°C	7.92	82	125	10.2	6.0	92	67	25	89	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.03	14.89	0.14	0.12	4.6	2.7	0.21	A
	Jul-24	14°C	7.68	70	121	10.6	6.0	110	60	50	92	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	12.35	0.15	0.13	4.6	2.7	0.19	A

	Aug-24	13°C	7.73	84	133	9.8	5.5	108	56	52	95	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	12.35	0.15	0.13	3.7	2.7	0.15	A
	Sep-24	16°C	7.83	61	97	9.8	6.0	74	55	19	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.07	0.03	16.03	0.11	0.14	3.4	2.6	0.17	A
	Oct-24	20°C	7.86	69	112	10.2	6.0	92	60	32	89	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.09	0.03	17.10	0.11	0.14	3.2	2.8	0.14	A
													River Bhag	irathi B/C River Al	aknanda at Devpray	/ag									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
25	Jan-24	14°C	8.26	48	74	10.6	2.0	53	40	13	51	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.02	12.65	0.11	0.12	2.6	2.4	0.15	A
	Feb-24	14°C	7.83	53	82	10.4	3.0	56	42	14	50	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	13.42	0.15	0.13	3.0	2.7	0.17	A
	Mar-24	14°C	7.45	47	72	10.2	4.0	52	40	12	45	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.03	12.82	0.10	0.12	2.8	2.4	0.17	A
	Apr-24	18°C	7.59	51	78	10.0	5.0	54	44	10	48	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.01	12.11	0.09	0.09	2.5	2.2	0.15	A
	May-24	19°C	7.46	45	70	10.2	4.0	49	37	12	43	1.0	4.0	<1.8	<1.8	<1.8	0.04	0.03	13.85	0.12	0.11	2.2	2.0	0.14	A
	Jun-24	15°C	7.12	42	64	10.4	4.0	52	39	13	46	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.04	15.08	0.10	0.11	2.7	2.0	0.16	A
	Jul-24	13°C	7.53	40	67	10.4	4.0	68	42	26	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.04	13.11	0.10	0.10	2.3	3.3	0.12	A
	Aug-24	14°C	7.23	40	68	9.9	4.4	66	43	23	55	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.05	0.04	13.11	0.10	0.10	2.8	3.1	0.13	A
	Sep-24	17°C	7.43	57	90	10.0	5.0	62	41	21	43	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.36	0.08	0.13	2.6	2.9	0.12	A
	Oct-24	20°C	8.09	54	79	10.3	5.0	60	42	18	54	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.02	14.88	0.08	0.13	2.7	3.2	0.12	A
												Rive	er Alaknanda A/	C River Bhagirathi	(River Ganga D/S) a	t Devprayag									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
26	Jan-24	13°C	8.10	63	96	10.8	3.0	66	48	18	64	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	14.75	0.13	0.15	2.3	2.2	0.12	A
	Feb-24	13°C	7.79	69	105	10.6	4.0	74	53	21	71	1.0	4.0	<1.8	<1.8	<1.8	0.03	0.03	11.79	0.15	0.14	2.7	2.4	0.14	A
	Mar-24	13°C	7.71	55	85	10.4	4.0	63	45	18	59	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.01	13.80	0.11	0.13	2.9	2.7	0.16	A
_	Apr-24	17°C	7.63	62	95	10.2	4.0	67	51	16	64	1.0	4.0	<1.8	<1.8	<1.8	0.06	0.01	12.96	0.13	0.10	2.7	2.5	0.14	A
_	May-24	19°C	7.74	71	109	10.2	5.0	74	54	20	69	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.02	12.41	0.09	0.09	3.2	2.7	0.16	A
	Jun-24	17°C	7.77	70	108	10.2	6.0	78	57	21	71	1.0	4.0	<1.8	<1.8	<1.8	0.05	0.03	11.09	0.10	0.11	3.6	2.4	0.18	A
L	Jul-24	14°C	7.86	58	92	10.8	4.0	70	41	29	70	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	12.15	0.12	0.11	2.4	3.6	0.18	A
	Aug-24	13°C	7.57	68	103	9.8	5.0	77	44	33	68	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.01	12.15	0.12	0.11	2.9	3.0	0.08	A
<u> </u>	Sep-24	17°C	7.61	59	95	9.9	6.0	70	53	17	53	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.06	0.03	15.66	0.09	0.11	2.7	2.8	0.07	A
	Oct-24	21°C	7.90	62	96	10.2	6.0	73	55	18	64	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	16.52	0.10	0.11	3.0	2.9	0.08	A
														Tehri lake at Koti c	olony, Tehri										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
27	Jan-24	18°C	8.05	54	81	10.2	3.0	58	44	14	53	1.0	4.0	48	41	2.0	0.06	0.01	20.44	0.18	0.16	2.1	2.0	0.12	A
	Feb-24	16°C	7.96	52	78	10.0	4.0	50	38	12	44	1.0	4.0	41	34	2.0	0.04	0.01	18.70	0.14	0.12	2.8	2.5	0.17	A
	Mar-24	16°C	7.60	40	61	9.8	5.0	45	35	10	42	1.0	4.0	47	40	2.0	0.06	0.02	11.62	0.12	0.10	2.9	2.7	0.19	A
	Apr-24	20°C	7.68	49	75	9.6	6.0	52	39	13	50	1.0	4.0	48	41	2.0	0.08	0.04	11.96	0.08	0.08	2.6	2.3	0.16	A
	May-24	19°C	7.53	56	85	9.4	6.0	60	44	16	58	1.0	4.0	47	40	2.0	0.06	0.02	12.09	0.10	0.12	2.9	2.5	0.16	A
	Jun-24	24°C	7.67	56	85	9.2	5.0	58	42	16	54	1.0	4.0	49	33	6.1	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A

	Jul-24	25°C	7.72	61	96	9.1	5.0	59	45	14	56	BDL (<1)	BDL (<5)	48	41	7.8	0.05	0.03	12.01	0.08	0.11	2.7	2.3	0.15	A
	Aug-24	25°C	7.74	56	92	9.2	5.0	58	38	20	46	BDL (<1)	BDL (<5)	47	40	4.5	0.08	0.02	11.95	0.08	0.09	2.5	2.3	0.07	A
	Sep-24	20°C	7.89	50	81	9.4	5.0	54	36	18	38	BDL (<1)	BDL (<5)	39	33	4.0	0.07	0.03	25.40	0.16	0.24	2.4	1.9	0.07	A
	Oct-24	20°C	7.89	43	66	9.8	6.0	47	33	14	41	BDL (<1)	BDL (<5)	40	34	4.5	0.07	0.03	24.66	0.18	0.23	2.4	2.8	0.07	A
						- 10						===(3)		inga U/S at Lakshn	nanjhula, Rishikesh						0.20			****	
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
28	Jan-24	11°C	7.80	69	104	10.8	2.0	72	50	22	70	1.0	4.0	26	22	<1.8	0.08	0.03	42.16	0.19	0.22	2.8	2.6	0.14	A
	Feb-24	16°C	7.50	77	118	10.6	4.0	85	59	26	80	1.0	4.0	32	26	<1.8	0.09	0.05	45.63	0.22	0.25	3.1	2.8	0.15	A
	Mar-24	20°C	7.60	69	105	10.4	5.0	74	52	22	71	1.0	4.0	38	31	<1.8	0.11	0.03	50.41	0.20	0.32	3.3	3.0	0.17	A
	Apr-24	20°C	7.97	75	114	10.2	5.0	78	58	20	76	1.0	4.0	39	33	<1.8	0.14	0.06	45.62	0.21	0.36	3.1	2.7	0.15	A
	May-24	23°C	7.80	68	104	10.0	6.0	73	50	23	70	1.0	4.0	40	34	<1.8	0.18	0.06	50.25	0.25	0.30	3.3	3.0	0.17	A
	Jun-24	20°C	7.82	72	109	10.4	5.0	74	53	21	71	1.0	4.0	47	40	<1.8	0.17	0.05	50.11	0.23	0.29	4.0	3.4	0.20	A
	Jul-24	20°C	7.89	79	116	10.3	5.0	79	58	21	73	BDL (<1)	BDL (<5)	39	33	<1.8	0.15	0.08	55.62	0.28	0.33	3.9	4.7	0.19	A
	Aug-24	18°C	7.85	80	155	9.8	6	125	85	40	115	BDL (<1)	BDL (<5)	38	32	<1.8	0.13	0.06	48.25	0.25	0.35	3.8	4.6	0.15	A
	Sep-24	18°C	7.91	82	134	9.8	5.0	78	61	17	68	BDL (<1)	BDL (<5)	33	27	<1.8	0.07	0.03	37.22	0.18	0.22	3.6	4.0	0.18	A
	Oct-24	20°C	7.92	72	121	10.2	7	87	76	11	78	BDL (<1)	BDL (<5)	38	26	<1.8	0.07	0.03	36.76	0.18	0.22	3.2	4.2	0.15	A
													River G	anga D/S Swargas	hram-1, Rishikesh										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
29	Jan-24	13°C	7.89	75	115	10.4	3.0	79	54	25	77	1.0	4.0	33	27	<1.8	0.12	0.02	40.73	0.17	0.25	3.1	2.9	0.15	A
	Feb-24	16°C	7.58	88	135	10.2	5.0	98	68	30	90	1.0	4.0	39	33	<1.8	0.07	0.01	38.44	0.23	0.19	3.3	3.1	0.14	A
	Mar-24	18°C	7.72	78	118	10.0	6.0	82	58	24	79	1.0	4.0	47	39	<1.8	0.05	0.02	42.63	0.19	0.24	3.5	3.2	0.17	A
	Apr-24	22°C	7.92	92	140	9.8	7.0	97	74	23	94	1.0	4.0	48	41	<1.8	0.11	0.04	46.78	0.13	0.28	3.4	3.0	0.15	A
	May-24	23°C	7.71	82	124	9.6	8.0	86	62	27	84	1.0	4.0	46	33	<1.8	0.13	0.04	48.70	0.16	0.22	3.7	3.2	0.17	A
	Jun-24	19°C	7.88	82	124	10.0	7.0	82	61	21	81	1.0	4.0	48	41	<1.8	0.12	0.03	48.52	0.14	0.21	3.6	3.1	0.17	A
	Jul-24	20°C	7.87	88	136	9.9	7.0	87	64	23	83	BDL (<1)	BDL (<5)	47	40	<1.8	0.13	0.06	50.66	0.23	0.28	3.3	4.2	0.15	A
	Aug-24	17°C	7.92	95	176	10.2	8	120	92	28	121	BDL (<1)	BDL (<5)	39	33	<1.8	0.15	0.08	44.21	0.24	0.30	3.1	4.0	0.14	A
	Sep-24	19°C	7.78	85	137	9.6	6.0	80	63	17	72	BDL (<1)	BDL (<5)	41	34	<1.8	0.08	0.02	48.42	0.15	0.20	3.3	3.9	0.15	A
	Oct-24	21°C	8.01	75	126	10.1	8	92	79	13	81	BDL (<1)	BDL (<5)	39	27	<1.8	0.08	0.02	46.92	0.15	0.20	3.2	4.1	0.15	A
													Rive	r Ganga D/S at Bai	raaj, Rishikesh,										
																Fecal Steptococcss			Sulphate	Phosphate (mg/l)					Designated Best use
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/I)	Phosphate (mg/i)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
S.No. 1	Month Jan-24	Temp	рн 7.55	TDS (mg/I)	EC (µS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/I)		BOD (mg/l)	COD (mg/l) 4.0	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	0.02	(mg/I) 48.52	0.19	Fluoride (mg/l) 0.22	Sodium (mg/l)	Potassium (mg/l)	0.13	(DBU) Water Quality
			Ľ				(mg/l)		(mg/I)		(mg/l)			. , , . ,		(MPN/100 ml)									(DBU) Water Quality Criteria
	Jan-24	13°C	7.55	71	108	10.6	(mg/l) 3.0	75	(mg/I) 56	19	(mg/I) 73	1.0	4.0	40	34	(MPN/100 ml)	0.09	0.02	48.52	0.19	0.22	2.6	2.2	0.13	(DBU) Water Quality Criteria
	Jan-24 Feb-24	13°C 18°C	7.55 7.46	71 81	108	10.6	(mg/l) 3.0 5.0	75 87	(mg/l) 56 59	19 28	(mg/l) 73 84	1.0	4.0	40 47	34 39	(MPN/100 ml) <1.8 <1.8	0.09	0.02	48.52 52.32	0.19 0.15	0.22 0.18	2.6	2.2	0.13	(DBU) Water Quality Criteria A A

	Jun-24	20°C	7.72	91	138	9.8	6.0	94	65	29	93	1.0	4.0	39	33	<1.8	0.07	0.04	60.32	0.14	0.21	3.2	2.7	0.14	A
	Jul-24	20°C	7.66	96	151	9.7	6.0	98	71	27	95	BDL (<1)	BDL (<5)	47	34	<1.8	0.10	0.06	58.63	0.13	0.20	3.8	3.4	0.16	A
	Aug-24	17°C	7.6	100	164	10	7	110	80	30	100	BDL (<1)	BDL (<5)	39	33	<1.8	0.10	0.09	60.22	0.11	.24	3.2	3.6	0.13	A
	Sep-24	19°C	7.86	86	136	9.8	6.0	88	54	34	58	BDL (<1)	BDL (<5)	33	27	<1.8	0.08	0.05	55.03	0.19	0.30	3.3	3.4	0.15	A
	Oct-24	22°C	7.94	72	123	9.8	4.0	66	51	15	79	BDL (<1)	BDL (<5)	38	32	<1.8	0.08	0.05	54.24	0.19	0.28	3.3	3.8	0.18	A
												Riv	er Ganga A/C Ri	ver Song (River Ga	nga D/S) at Raiwala	, Dehradun									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
31	Jan-24	16°C	8.33	150	226	9.2	5.0	131	105	26	121	1.1	5.0	70	49	4.5	0.11	0.03	42.96	0.22	0.23	4.8	3.6	0.18	В
	Feb-24	17°C	8.07	130	196	9.0	7.0	142	112	30	133	1.3	5.0	63	46	4.0	0.09	0.01	45.77	0.16	0.31	5.1	3.3	0.19	В
	Mar-24	22°C	7.91	142	213	8.6	8.0	148	110	38	146	1.5	5.0	70	49	4.0	0.08	0.04	40.68	0.22	0.25	5.5	3.6	0.20	В
	Apr-24	21°C	8.45	125	189	8.4	9.0	134	95	39	131	1.6	5.0	63	46	4.0	0.11	0.03	45.66	0.25	0.30	5.1	3.2	0.19	В
	May-24	22°C	8.09	130	196	8.0	10.0	137	95	42	134	1.8	6.0	70	49	4.0	0.13	0.06	50.41	0.28	0.25	5.9	4.0	0.22	В
	Jun-24	21°C	7.74	128	193	8.4	9.0	132	89	43	128	1.7	6.0	110	70	6.8	0.11	0.04	50.38	0.26	0.23	5.7	3.0	0.22	В
	Jul-24	21°C	7.71	133	198	8.2	9.0	136	92	44	131	1.7	6.0	120	94	6.1	0.15	0.08	53.44	0.25	0.28	6.2	4.1	0.23	В
	Aug-24	17°C	7.85	125	199	8.4	8.8	140	86	54	131	1.4	5.0	130	79	6.1	0.13	0.09	55.41	0.22	0.25	5.6	4.8	0.15	В
	Sep-24	20°C	7.96	98	157	8.6	9.0	144	101	43	112	1.4	5.0	110	70	4.0	0.07	0.03	50.35	0.18	0.20	5.7	3.9	0.15	В
	Oct-24	20°C	8.12	150	234	8.4	9.0	144	117	27	123	1.6	5.2	94	70	4.5	0.07	0.03	52.04	0.17	0.21	5.9	4.9	0.16	В
												River Gang	a A/C River Song	(River Ganga D/S)	Near Birla guest ho	use, Dist-Dehradun									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/I)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
S.No.	Month Jan-24	Temp 14°C	рн 8.14	TDS (mg/I)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/I)	COD (mg/I) 5.0	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l) 0.23	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	0.20	(DBU) Water Quality
\vdash							(mg/l)		(mg/l)		(mg/l)					(MPN/100 ml)			(mg/l)	\vdash					(DBU) Water Quality Criteria
\vdash	Jan-24 Feb-24 Mar-24	14°C 16°C 21°C	8.14 7.93 7.82	131 144 158	198 218 239	9.4 9.2 8.8	(mg/l) 5.0 6.0 7.0	122 135 152	(mg/l) 99 108 118	23 27 34	(mg/l) 114 124 141	1.1 1.2 1.4	5.0 5.0 5.0	94 79 94	70 49 46	(MPN/100 ml) <1.8 <1.8 <1.8	0.06 0.08 0.07	0.04 0.05 0.02	(mg/l) 55.28 52.46 50.30	0.23 0.20 0.13	0.22 0.26 0.30	5.0 5.3 5.9	3.9 3.7 3.9	0.20 0.20 0.21	(DBU) Water Quality Criteria B B
<u> </u>	Jan-24 Feb-24 Mar-24 Apr-24	14°C 16°C 21°C 21°C	8.14 7.93 7.82 8.33	131 144 158 135	198 218 239 205	9.4 9.2 8.8 8.6	(mg/l) 5.0 6.0 7.0 8.0	122 135 152 142	(mg/l) 99 108 118 105	23 27 34 37	(mg/l) 114 124 141 137	1.1 1.2 1.4 1.5	5.0 5.0 5.0 5.0	94 79 94 70	70 49 46 49	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.08 0.07 0.09	0.04 0.05 0.02 0.03	(mg/l) 55.28 52.46 50.30 53.46	0.23 0.20 0.13 0.16	0.22 0.26 0.30 0.25	5.0 5.3 5.9 6.1	3.9 3.7 3.9 4.4	0.20 0.20 0.21 0.22	(DBU) Water Quality Criteria B B B
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24	14°C 16°C 21°C 21°C 23°C	8.14 7.93 7.82 8.33 7.98	131 144 158 135 143	198 218 239 205 216	9.4 9.2 8.8 8.6 8.2	(mg/l) 5.0 6.0 7.0 8.0 9.0	122 135 152 142 148	(mg/l) 99 108 118 105 108	23 27 34 37 40	(mg/l) 114 124 141 137 145	1.1 1.2 1.4 1.5	5.0 5.0 5.0 5.0 6.0	94 79 94 70 70	70 49 46 49 46	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.08 0.07 0.09 0.13	0.04 0.05 0.02 0.03 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21	0.23 0.20 0.13 0.16 0.20	0.22 0.26 0.30 0.25 0.33	5.0 5.3 5.9 6.1 6.7	3.9 3.7 3.9 4.4 4.7	0.20 0.20 0.21 0.22 0.24	(DBU) Water Quality Criteria B B B B B
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	14°C 16°C 21°C 21°C 23°C 20°C	8.14 7.93 7.82 8.33 7.98 7.81	131 144 158 135 143 147	198 218 239 205 216 223	9.4 9.2 8.8 8.6 8.2 8.8	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0	122 135 152 142 148 158	(mg/l) 99 108 118 105 108 118	23 27 34 37 40	(mg/l) 114 124 141 137 145 154	1.1 1.2 1.4 1.5 1.7	5.0 5.0 5.0 5.0 6.0 5.0	94 79 94 70 70 84	70 49 46 49 46 63	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.08 0.07 0.09 0.13 0.11	0.04 0.05 0.02 0.03 0.05 0.03	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07	0.23 0.20 0.13 0.16 0.20 0.18	0.22 0.26 0.30 0.25 0.33 0.31	5.0 5.3 5.9 6.1 6.7 6.4	3.9 3.7 3.9 4.4 4.7 4.4	0.20 0.20 0.21 0.22 0.24	B B B B B B
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	14°C 16°C 21°C 21°C 23°C 20°C	8.14 7.93 7.82 8.33 7.98 7.81	131 144 158 135 143 147	198 218 239 205 216 223 226	9.4 9.2 8.8 8.6 8.2 8.8 8.7	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0	122 135 152 142 148 158	(mg/l) 99 108 118 105 108 118 124	23 27 34 37 40 40 43	(mg/l) 114 124 141 137 145 154	1.1 1.2 1.4 1.5 1.7 1.5	5.0 5.0 5.0 5.0 6.0 5.0	94 79 94 70 70 84 94	70 49 46 49 46 63 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.06 0.08 0.07 0.09 0.13 0.11 0.14	0.04 0.05 0.02 0.03 0.05 0.03 0.06	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92	0.23 0.20 0.13 0.16 0.20 0.18 0.22	0.22 0.26 0.30 0.25 0.33 0.31 0.30	5.0 5.3 5.9 6.1 6.7 6.4 6.1	3.9 3.7 3.9 4.4 4.7 4.4 3.5	0.20 0.20 0.21 0.22 0.24 0.22 0.20	(DBU) Water Quality Criteria B B B B B B B
<u> </u>	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85	131 144 158 135 143 147 153 145	198 218 239 205 216 223 226 234	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6	122 135 152 142 148 158 167 175	(mg/l) 99 108 118 105 108 118 115	23 27 34 37 40 40 43	(mg/l) 114 124 141 137 145 154 160	1.1 1.2 1.4 1.5 1.7 1.5 1.5	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0	94 79 94 70 70 84 94	70 49 46 49 46 63 70 63	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <6.8 4.0 6.1	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3	3.9 3.7 3.9 4.4 4.7 4.4 3.5	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B B B
<u> </u>	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	14°C 16°C 21°C 21°C 23°C 20°C 20°C 17°C 20°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90	131 144 158 135 143 147 153 145 94	198 218 239 205 216 223 226 234 149	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 7.0 7.0	122 135 152 142 148 158 167 175	(mg/l) 99 108 118 105 108 118 124 115 98	23 27 34 37 40 40 43 60	(mg/l) 114 124 141 137 145 154 158 160 102	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0	94 79 94 70 70 84 94 84	70 49 46 49 46 63 70 63 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16	B B B B B B B B B B
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85	131 144 158 135 143 147 153 145	198 218 239 205 216 223 226 234	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6	122 135 152 142 148 158 167 175	(mg/l) 99 108 118 105 108 118 115	23 27 34 37 40 40 43	(mg/l) 114 124 141 137 145 154 160	1.1 1.2 1.4 1.5 1.7 1.5 1.5	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0	94 79 94 70 70 84 94 84 120	70 49 46 49 46 63 70 63 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <6.8 4.0 6.1	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3	3.9 3.7 3.9 4.4 4.7 4.4 3.5	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B B B
32	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C 20°C 21°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90 7.91 8.21	131 144 158 135 143 147 153 145 94	198 218 239 205 216 223 226 234 149 236	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8 8.8 8.6	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 8.0 9.0 7.0 8.0	122 135 152 142 148 158 167 175 139	(mg/l) 99 108 118 105 108 118 124 115 98 102	23 27 34 37 40 40 43 60 41 30	(mg/l) 114 124 141 137 145 154 158 160 102 119	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4 1.6	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0	94 79 94 70 70 84 94 84 120 110 uswa D/S at Mathu	70 49 46 49 46 63 70 63 70 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5 4.0	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09 0.09	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08 0.05 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03 68.82	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23 0.23	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3 5.9	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8 3.6 4.7	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16 0.17 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B
32 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C 20°C 17°C 20°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90 7.91 8.21	131 144 158 135 143 147 153 145 94 155	198 218 239 205 216 223 226 234 149 236	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8 8.6	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 6 7.0 6 Chloride (mg/l)	122 135 152 142 148 158 167 175 139 132	(mg/l) 99 108 118 105 108 118 124 115 98 102	23 27 34 37 40 40 43 60 41 30	(mg/l) 114 124 141 137 145 154 158 160 102 119 Alkalinity (mg/l)	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4 1.6 1.4	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	94 79 94 70 70 84 94 84 120 110 uswa D/S at Mathu	70 49 46 49 46 63 70 63 70 70 rawala, Dehradun	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5 4.0	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09 0.09	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08 0.05 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03 68.82	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23 0.23	0.22 0.26 0.30 0.25 0.33 0.31 0.30 2.8 0.21 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3 5.9 5.5	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8 3.6 4.7	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16 0.17 0.16	(DBU) Water Quality Criteria B B B B B B B B B B C C C C C C C C C
32	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C 20°C 17°C 21°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90 7.91 8.21	131 144 158 135 143 147 153 145 94 155	198 218 239 205 216 223 226 234 149 236 EC (us/cm) 475	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8 8.6 DO (mg/l)	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 6 7.0 8.0 7.0 8.0 32.0	122 135 152 142 148 158 167 175 139 132	(mg/l) 99 108 118 105 108 118 124 115 98 102	23 27 34 37 40 40 43 60 41 30 Magneslum (mg/l) 57	(mg/l) 114 124 141 137 145 154 158 160 102 119 Alkalinity (mg/l) 293	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4 1.6 1.4 BOD (mg/l) 26.0	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5	94 79 94 70 70 84 94 84 120 110 uswa D/S at Mathu TC (MPN/100 ml) 22×10 ²	70 49 46 49 46 63 70 63 70 70 rawala, Dehradun FC (MPN/100 ml) 13×10 ²	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5 4.0 Fecal Steptococcss (MPN/100 ml) 540	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09 0.09	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08 0.05 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03 68.82 Sulphate (mg/l) 127.90	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23 0.23	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28 0.21 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3 5.9 5.5	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8 3.6 4.7	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16 0.17 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B B C C C C C C C
32 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C 20°C 17°C 20°C 11°C 15°C 18°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90 7.91 8.21 pH 7.31 7.49	131 144 158 135 143 147 153 145 94 155	198 218 239 205 216 223 226 234 149 236 Ec (µs/em) 475 505	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8 8.6 bo (mg/l) 2.8 2.4	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 6 7.0 8.0 9.0 7.0 3.0 32.0	122 135 152 142 148 158 167 175 139 132	(mg/l) 99 108 118 105 108 118 124 115 98 102 Calcium (mg/l) 250 281	23 27 34 37 40 40 43 60 41 30 Magnesium (mg/l) 57	(mg/l) 114 124 141 137 145 154 158 160 102 119 Alkalinity (mg/l) 293 339	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4 1.6 1.4 BOD (mg/l) 26.0 28.0	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 100.0	94 79 94 70 70 84 94 84 120 110 ISWA D/S at Mathu TC (MPN/100 ml) 22×10 ² 17×10 ²	70 49 46 49 46 63 70 63 70 70 rawala, Dehradun FC (MPN/100 ml) 13×10 ² 14×10 ²	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5 4.0 Fecal Steptococcss (MPN/100 ml) 540 920	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09 0.09 Nitrate-N (mg/l) 0.25 0.32	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08 0.05 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03 68.82 Sulphate (mg/l) 127.90 136.52	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23 0.23 Phosphate (mg/l) 0.21	0.22 0.26 0.30 0.25 0.33 0.31 0.30 28 0.21 0.21 Fluoride (mg/l) 0.25 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3 5.9 5.5	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8 3.6 4.7	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16 0.17 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B C Criteria
32 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	14°C 16°C 21°C 21°C 23°C 20°C 17°C 20°C 17°C 21°C	8.14 7.93 7.82 8.33 7.98 7.81 7.85 7.90 7.91 8.21	131 144 158 135 143 147 153 145 94 155	198 218 239 205 216 223 226 234 149 236 EC (us/cm) 475	9.4 9.2 8.8 8.6 8.2 8.8 8.7 8.8 8.6 DO (mg/l)	(mg/l) 5.0 6.0 7.0 8.0 9.0 7.0 6 7.0 6 7.0 8.0 7.0 8.0 32.0	122 135 152 142 148 158 167 175 139 132	(mg/l) 99 108 118 105 108 118 124 115 98 102	23 27 34 37 40 40 43 60 41 30 Magneslum (mg/l) 57	(mg/l) 114 124 141 137 145 154 158 160 102 119 Alkalinity (mg/l) 293	1.1 1.2 1.4 1.5 1.7 1.5 1.5 1.4 1.6 1.4 BOD (mg/l) 26.0	5.0 5.0 5.0 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 90.0	94 79 94 70 70 84 94 84 120 110 uswa D/S at Mathu TC (MPN/100 ml) 22×10 ²	70 49 46 49 46 63 70 63 70 70 rawala, Dehradun FC (MPN/100 ml) 13×10 ²	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.0 6.1 6.8 4.5 4.0 Fecal Steptococcss (MPN/100 ml) 540	0.06 0.08 0.07 0.09 0.13 0.11 0.14 0.12 0.09 0.09	0.04 0.05 0.02 0.03 0.05 0.03 0.06 0.08 0.05 0.05	(mg/l) 55.28 52.46 50.30 53.46 56.21 56.07 54.92 55.63 69.03 68.82 Sulphate (mg/l) 127.90	0.23 0.20 0.13 0.16 0.20 0.18 0.22 .25 0.23 0.23	0.22 0.26 0.30 0.25 0.33 0.31 0.30 .28 0.21 0.21	5.0 5.3 5.9 6.1 6.7 6.4 6.1 5.3 5.9 5.5	3.9 3.7 3.9 4.4 4.7 4.4 3.5 4.8 3.6 4.7	0.20 0.20 0.21 0.22 0.24 0.22 0.20 0.16 0.17 0.16	(DBU) Water Quality Criteria B B B B B B B B B B B B C C C C C C C

	May-24	28°C	7.63	364	548	2.0	36.0	369	286	83	366	30.0	110.0	28×10 ²	17×10 ²	1600	0.41	0.13	140.41	0.19	0.29	28.9	6.2	0.65	Е
	Jun-24	22°C	7.56	360	542	2.2	36.0	362	284	78	352	29.0	110.0	35×10 ²	28×10 ²	1600	0.40	0.12	141.64	0.19	0.28	26.9	6.0	0.61	E
-	Jul-24	19°C	7.55	270	412	2.2	32.0	270	218	52	266	27.0	100.0	35×10 ²	28×10 ²	1600	0.35	0.11	133.4	0.15	0.24	28.5	15.3	0.75	E
\vdash	Aug-24	20°C	7.47	264	406	3.3	31.0	276	223	53	268	24.0	98.0			920	0.33	0.11	130.52	.16	.26	26.3	14.1	0.75	E
\vdash	Sep-24	21°C	7.24	278	440	3.2	33.0	279	226	53	241	26.0	90.0	22×10 ²	14×10^{2} 14×10^{2}	430	0.32	0.09	126.22	0.13	0.20	25.2	4.2	0.73	E
\vdash	Oct-24	21°C	8.07	299	468		38.0	276	-		234	28.0	86.0	22×10 ² 28×102	17×102	920	0.22		_	0.13	0.20	29.6	14.8	0.72	E
	OCI-24	21 C	8.07	299	408	2.8	36.0	270	225	51	234	28.0			a, Doiwala, Dehrad		0.22	0.06	128.06	0.13	0.20	29.0	14.6	0.83	Е
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
34	Jan-24	17°C	7.65	277	416	5.4	19.0	267	230	37	255	2.8	8.0	350	280	110	0.26	0.07	125.40	0.20	0.24	30.1	5.7	0.80	В
	Feb-24	17°C	7.77	291	438	5.2	20.0	299	256	43	293	3.0	9.0	280	220	140	0.38	0.02	129.73	0.26	0.25	28.9	5.3	0.73	В
	Mar-24	17°C	7.59	269	404	5.6	18.0	274	227	47	271	2.8	8.0	430	280	170	0.33	0.03	119.02	0.21	0.26	28.3	5.0	0.74	В
	Apr-24	20°C	7.74	297	447	5.2	19.0	307	253	54	301	3.0	9.0	350	240	140	0.38	0.12	122.62	0.18	0.30	27.8	4.8	0.69	В
	May-24	29°C	7.91	313	472	5.0	20.0	327	264	63	319	3.0	10.0	430	350	110	0.45	0.16	130.42	0.22	0.25	28.0	5.1	0.67	В
	Jun-24													River was											
	Jul-24	20°C	7.28	235	350	5.6	17.0	255	220	35	202	2.8	9.0	350	280	94	0.40	0.13	125.41	0.19	0.21	23.9	6.8	0.65	В
	Aug-24	20°C	7.14	262	350	5.2	15.0	249	218	31	204	2.6	9	280	220	79	0.35	0.10	128.22	.14	.22	25.2	12.9	0.83	В
	Sep-24	21°C	7.32	271	434	5	16.0	254	220	34	212	2.8	8	210	170	70	0.20	0.08	125.89	0.20	0.25	26.6	3.8	0.87	В
	Oct-24	21°C	7.43	274	432	5	24.0	260	218	42	240	2.8	12	350	280	94	0.20	0.08	124.96	0.20	0.24	28.1	13.2	0.92	В
			,									-		550	200	/	0.20	0.00		**	*	20.1	15.2	0.72	-
		2. 6					<u>. </u>								r Ganga Near Nepa		0.20	0.00		V-2-0		20.1	13.2	0.52	
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)						Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
S.No.				TDS (mg/l)	EC (μS/cm) 214	DO (mg/l)			Calcium		Alkalinity	River So	ng D/S before co	nfluence in to Rive	r Ganga Near Nepa	li Farm, Rishikesh Fecal Steptococcss		 	Sulphate						Designated Best use (DBU) Water Quality
<u> </u>	Month	Temp	рН				(mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	River Son	ng D/S before co	nfluence in to Rive	r Ganga Near Nepa	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
<u> </u>	Month Jan-24	Temp	рн 7.90	142	214	8.4	(mg/l) 6.0	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	River Soil BOD (mg/l) 1.2	cod (mg/l)	TC (MPN/100 ml)	r Ganga Near Nepa FC (MPN/100 ml) 79	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l) 0.11	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	sar 0.52	Designated Best use (DBU) Water Quality Criteria
<u> </u>	Month Jan-24 Feb-24	13°C 18°C	рн 7.90 7.82	142 165	214 250	8.4 8.0	(mg/l) 6.0 9.0	Hardness (mg/l) 130 150	Calcium (mg/l) 105	Magnesium (mg/l) 25 31	Alkalinity (mg/l) 121 137	River Soil BOD (mg/l) 1.2 1.4	cod (mg/l) 5.0 6.0	TC (MPN/100 ml) 140 120	FC (MPN/100 ml) 79 94	Fecal Steptococcss (MPN/100 ml) 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13	Nitrite-N (mg/l) 0.04 0.03	Sulphate (mg/l) 52.17 55.79	Phosphate (mg/l) 0.23 0.19	Fluoride (mg/l) 0.20 0.25	Sodium (mg/l) 13.6 14.0	Potassium (mg/l) 2.9 3.2	0.52 0.50	Designated Best use (DBU) Water Quality Criteria B B
<u> </u>	Month Jan-24 Feb-24 Mar-24	13°C 18°C 20°C	рн 7.90 7.82 7.68	142 165 178	214 250 268	8.4 8.0 7.6	(mg/l) 6.0 9.0 10.0	Hardness (mg/l) 130 150 183	Calcium (mg/1) 105 119	Magnesium (mg/l) 25 31 39	Alkalinity (mg/l) 121 137 168	River Soil BOD (mg/l) 1.2 1.4 1.6	cod (mg/l) 5.0 6.0	TC (MPN/100 ml) 140 120 110	FC (MPN/100 ml) 79 94 79	Fecal Steptococcss (MPN/100 ml) 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16	Nitrite-N (mg/l) 0.04 0.03 0.01	Sulphate (mg/l) 52.17 55.79 50.05	Phosphate (mg/l) 0.23 0.19 0.13	Fluoride (mg/l) 0.20 0.25 0.20	Sodium (mg/l) 13.6 14.0 13.1	Potassium (mg/l) 2.9 3.2 3.5	0.52 0.50 0.42	Designated Best use (DBU) Water Quality Criteria B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24	Temp 13°C 18°C 20°C 22°C	рн 7.90 7.82 7.68 8.04	142 165 178 159	214 250 268 240	8.4 8.0 7.6 7.4	(mg/l) 6.0 9.0 10.0	Hardness (mg/l) 130 150 183 166	Calcium (mg/l) 105 119 144 124	Magnesium (mg/l) 25 31 39 42	Alkalinity (mg/l) 121 137 168 152	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7	cod (mg/l) 5.0 6.0 6.0	TC (MPN/100 ml) 140 120 110	FC (MPN/100 ml) 79 94 79 94	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08	Sulphate (mg/l) 52.17 55.79 50.05 55.69	Phosphate (mg/l) 0.23 0.19 0.13 0.16	Fluoride (mg/l) 0.20 0.25 0.20 0.28	Sodium (mg/l) 13.6 14.0 13.1 13.8	Potassium (mg/l) 2.9 3.2 3.5 3.8	SAR 0.52 0.50 0.42 0.46	Designated Best use (DBU) Water Quality Criteria B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24	13°C 18°C 20°C 22°C 23°C	рн 7.90 7.82 7.68 8.04 8.19	142 165 178 159 171	214 250 268 240 258	8.4 8.0 7.6 7.4 7.0	(mg/l) 6.0 9.0 10.0 11.0	Hardness (mg/l) 130 150 183 166 175	Calcium (mg/l) 105 119 144 124	Magneslum (mg/l) 25 31 39 42 47	Alkalinity (mg/l) 121 137 168 152 167	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7	cod (mg/l) 5.0 6.0 6.0 7.0	TC (MPN/100 ml) 140 120 110 120 110	FC (MPN/100 ml) 79 94 79 94 79	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23	Fluoride (mg/l) 0.20 0.25 0.20 0.28 0.20	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0	SAR 0.52 0.50 0.42 0.46 0.47	Designated Best use (OBU) Water Quality Criteria B B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	13°C 18°C 20°C 22°C 22°C 21°C	рн 7.90 7.82 7.68 8.04 8.19 7.72	142 165 178 159 171 188	214 250 268 240 258 284	8.4 8.0 7.6 7.4 7.0 7.2	(mg/l) 6.0 9.0 10.0 10.0 11.0 9.0	Hardness (mg/l) 130 150 183 166 175 182	Calcium (mg/l) 105 119 144 124 128	Magnesium (mg/l) 25 31 39 42 47 51	Alkalinity (mg/l) 121 137 168 152 167 148	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8	COD (mg/l) 5.0 6.0 6.0 7.0 6.0	TC (MPN/100 ml) 140 120 110 120 110 140	FC (MPN/100 ml) 79 94 79 94 79 94 79 94	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18	Fluoride (mg/l) 0.20 0.25 0.20 0.28 0.20 0.28	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6	0.52 0.50 0.42 0.46 0.47	Designated Best use (DBU) Water Quality Criteria B B B B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	13°C 18°C 20°C 22°C 23°C 21°C 23°C 18°C 19°C	7.90 7.82 7.68 8.04 8.19 7.72 7.72 7.67	142 165 178 159 171 188 188 185	214 250 268 240 258 284 284 289	8.4 8.0 7.6 7.4 7.0 7.2 7.2 7.9 8.0	(mg/l) 6.0 9.0 10.0 10.0 11.0 9.0 9.0 8.0	Hardness (mg/l) 130 150 183 166 175 182 182 190 168	Calcium (mg/l) 105 119 144 124 128 131 131 137	Magnesium (mg/l) 25 31 39 42 47 51 53 36	Alkalinity (mg/l) 121 137 168 152 167 148 148 161	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4	cop (mg/l) 5.0 6.0 6.0 7.0 6.0 5.0	TC (MPN/100 ml) 140 120 110 120 110 140 120	FC (MPN/100 ml) 79 94 79 94 79 94 79 94 79 140	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22 0.08	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10 0.07	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33 53.13	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22 0.18	0.20 0.25 0.20 0.25 0.20 0.28 0.20 0.28 0.20	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2 6.7 7.2 9.3	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6 3.5	0.52 0.50 0.42 0.46 0.47 0.20 0.21 0.22	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24	13°C 18°C 20°C 22°C 22°C 23°C 21°C 23°C 18°C	7.90 7.82 7.68 8.04 8.19 7.72 7.72 7.67	142 165 178 159 171 188 188	214 250 268 240 258 284 284	8.4 8.0 7.6 7.4 7.0 7.2 7.9	(mg/l) 6.0 9.0 10.0 10.0 11.0 9.0 9.0 8.0	Hardness (mg/l) 130 150 183 166 175 182 182 190	Calcium (mg/l) 105 119 144 124 128 131 131	Magnesium (mg/l) 25 31 39 42 47 51 51	Alkalinity (mg/l) 121 137 168 152 167 148 148	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4 1.3	cod (mg/l) 5.0 6.0 6.0 6.0 6.0 5.0 BDL (<5)	TC (MPN/100 ml) 140 120 110 120 110 140 120 110 140 14	FC (MPN/100 ml) 79 94 79 94 79 94 79 94 79	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1 4.5	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22	Fluoride (mg/l) 0.20 0.25 0.20 0.28 0.20 0.28 0.20 0.28	13.6 14.0 13.1 13.8 14.2 6.2 6.7	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6	0.52 0.50 0.42 0.46 0.47 0.20 0.21	Designated Best use (OBU) Water Quality Criteria B B B B B B B B B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jun-24 Jul-24 Aug-24 Sep-24	13°C 18°C 20°C 22°C 23°C 21°C 23°C 18°C 19°C	7.90 7.82 7.68 8.04 8.19 7.72 7.72 7.67	142 165 178 159 171 188 188 185	214 250 268 240 258 284 284 289	8.4 8.0 7.6 7.4 7.0 7.2 7.2 7.9 8.0	(mg/l) 6.0 9.0 10.0 10.0 11.0 9.0 9.0 8.0	Hardness (mg/l) 130 150 183 166 175 182 182 190 168	Calcium (mg/l) 105 119 144 124 128 131 131 137	Magnesium (mg/l) 25 31 39 42 47 51 53 36	Alkalinity (mg/l) 121 137 168 152 167 148 148 161	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4 1.3	cod (mg/l) 5.0 6.0 6.0 7.0 6.0 5.0 BDL (<5) BDL (<5)	TC (MPN/100 ml) 140 120 110 120 110 120 110 140 120 110 140 120 110 130	FC (MPN/100 ml) 79 94 79 94 79 94 79 94 79 140	Fecal Steptococcs (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1 4.5 4.0 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22 0.08	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10 0.07	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33 53.13	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22 0.18	0.20 0.25 0.20 0.25 0.20 0.28 0.20 0.28 0.20	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2 6.7 7.2 9.3	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6 3.5	0.52 0.50 0.42 0.46 0.47 0.20 0.21 0.22	Designated Best use (OBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B
<u> </u>	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jun-24 Jul-24 Aug-24 Sep-24	13°C 18°C 20°C 22°C 23°C 21°C 23°C 18°C 19°C	7.90 7.82 7.68 8.04 8.19 7.72 7.72 7.67	142 165 178 159 171 188 188 185	214 250 268 240 258 284 284 289	8.4 8.0 7.6 7.4 7.0 7.2 7.2 7.9 8.0	(mg/l) 6.0 9.0 10.0 10.0 11.0 9.0 9.0 8.0	Hardness (mg/l) 130 150 183 166 175 182 182 190 168	Calcium (mg/l) 105 119 144 124 128 131 131 137	Magnesium (mg/l) 25 31 39 42 47 51 53 36	Alkalinity (mg/l) 121 137 168 152 167 148 148 161	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4 1.3	cod (mg/l) 5.0 6.0 6.0 7.0 6.0 5.0 BDL (<5) BDL (<5)	TC (MPN/100 ml) 140 120 110 120 110 120 110 140 120 110 140 120 110 130	FC (MPN/100 ml) 79 94 79 94 79 94 79 94 70 79 140	Fecal Steptococcs (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1 4.5 4.0 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22 0.08	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10 0.07	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33 53.13	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22 0.18	0.20 0.25 0.20 0.25 0.20 0.28 0.20 0.28 0.20	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2 6.7 7.2 9.3	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6 3.5 4.5	0.52 0.50 0.42 0.46 0.47 0.20 0.21 0.22	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B
35	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	Temp 13°C 18°C 20°C 22°C 23°C 21°C 18°C 19°C 22°C	рн 7.90 7.82 7.68 8.04 8.19 7.72 7.72 7.67 7.71 8.36	142 165 178 159 171 188 188 185 107 182	214 250 268 240 258 284 284 289 173 294	8.4 8.0 7.6 7.4 7.0 7.2 7.2 7.9 8.0 8.0	(mg/l) 6.0 9.0 10.0 11.0 9.0 9.0 8.0 9.0 11.0	Hardness (mg/l) 130 150 183 166 175 182 190 168 230	Calcium (mg/l) 105 119 144 124 128 131 131 137	Magnesium (mg/l) 25 31 39 42 47 51 53 36 60	Alkalinity (mg/l) 121 137 168 152 167 148 148 161 142 180	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4 1.3 1.4	COD (mg/l) 5.0 6.0 6.0 7.0 6.0 5.0 BDL (<5) BDL (<5) River Ga	TC (MPN/100 ml) 140 120 110 120 110 120 110 140 130 130 Inga near Visthaph	FC (MPN/100 ml) 79 94 79 94 79 94 70 79 140 79 iit Colony, Rishikesh	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1 4.5 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22 0.08 0.10	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10 0.07	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33 53.13 54.16	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22 0.18 0.18	Fluoride (mg/l) 0.20 0.25 0.20 0.28 0.20 0.28 0.20 0.27	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2 6.7 7.2 9.3 11.4	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6 3.5 4.5	0.52 0.50 0.42 0.46 0.47 0.20 0.21 0.22 0.29 0.35	Designated Best use (OBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B
35 S.No.	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	Temp 13°C 18°C 20°C 22°C 23°C 21°C 23°C 18°C 19°C 22°C	рн 7.90 7.82 7.68 8.04 8.19 7.72 7.67 7.71 8.36	142 165 178 159 171 188 188 185 107 182	214 250 268 240 258 284 284 289 173 294	8.4 8.0 7.6 7.4 7.0 7.2 7.2 7.9 8.0 8.0	(mg/l) 6.0 9.0 10.0 11.0 9.0 9.0 8.0 9.0 11.0 Chloride (mg/l)	Hardness (mg/l) 130 150 183 166 175 182 182 190 168 230 Hardness (mg/l)	Calcium (mg/l) 105 119 144 124 128 131 131 137 132 170	Magnesium (mg/l) 25 31 39 42 47 51 53 36 60 Magnesium (mg/l)	Alkalinity (mg/l) 121 137 168 152 167 148 148 161 142 180	River Soil BOD (mg/l) 1.2 1.4 1.6 1.7 1.9 1.8 1.4 1.3 1.4 1.4	cod (mg/l) 5.0 6.0 6.0 7.0 6.0 5.0 BDL (<5) BDL (<5) BDL (<5) COD (mg/l)	TC (MPN/100 ml) 140 120 110 120 110 140 170 130 Inga near Visthaph	FC (MPN/100 ml) 79 94 79 94 79 94 79 94 70 79 140 79 it Colony, Rishikesh	Fecal Steptococcss (MPN/100 ml) 6.8 6.1 6.8 4.5 4.0 6.8 6.1 4.5 4.0 6.8 6.1	Nitrate-N (mg/l) 0.11 0.13 0.16 0.20 0.25 0.12 0.20 0.22 0.08 0.10	Nitrite-N (mg/l) 0.04 0.03 0.01 0.08 0.11 0.04 0.05 0.10 0.07 0.07	Sulphate (mg/l) 52.17 55.79 50.05 55.69 60.79 56.09 58.1 60.33 53.13 54.16	Phosphate (mg/l) 0.23 0.19 0.13 0.16 0.23 0.18 0.20 .22 0.18 0.18	Fluoride (mg/l) 0.20 0.25 0.20 0.28 0.20 0.28 0.20 2.6 0.27	Sodium (mg/l) 13.6 14.0 13.1 13.8 14.2 6.2 6.7 7.2 9.3 11.4 Sodium (mg/l)	Potassium (mg/l) 2.9 3.2 3.5 3.8 4.0 4.6 4.4 4.6 3.5 4.5	SAR 0.52 0.50 0.42 0.46 0.47 0.20 0.21 0.22 0.29 0.35	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B

	Apr-24	20°C	7.87	144	217	9.4	7.0	148	118	30	139	1.3	4.0	47	40	<1.8	0.02	0.01	48.19	0.21	0.22	3.3	2.9	0.12	A
	May-24	22°C	7.68	120	182	9.2	8.0	125	89	36	112	1.4	4.0	48	40	<1.8	0.18	0.09	55.12	0.18	0.30	3.6	3.0	0.14	A
	Jun-24	20°C	7.78	118	179	9.4	7.0	118	84	34	108	1.2	4.0	47	34	<1.8	0.16	0.08	55.01	0.16	0.28	3.4	3.1	0.14	A
	Jul-24	20°C	7.75	113	174	9.2	7.0	124	89	35	111	1.2	BDL (<5)	40	41	<1.8	0.15	0.12	60.12	0.2	0.25	3.2	2.8	0.12	A
	Aug-24	17°C	7.8	120	194	9.4	6.5	130	82	48	95	1.2	BDL (<5)	41	34	<1.8	0.10	0.11	63.10	.18	.30	3.3	3.5	0.15	A
	Sep-24	20°C	7.87	89	145	9.2	6.0	91	56	35	57	1.4	BDL (<5)	39	33	<1.8	0.09	0.04	59.97	0.22	0.26	3.2	3.3	0.15	A
	Oct-24	23°C	7.9	102	161	9.4	6.0	71	52	19	86	1	BDL (<5)	47	40	<1.8	0.09	0.04	58.66	0.21	0.29	3.5	3.9	0.16	A
													River Yam	una D/S at Vika	sh Nagar, Dehra	dun									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
37	Jan-24	19°C	7.88	99	150	10.0	5.0	101	84	17	96	1.0	4.0	94	70	6.1	0.09	0.02	32.10	0.21	0.18	3.4	2.8	0.15	В
	Feb-24	12°C	7.74	107	162	9.8	6.0	110	87	23	108	1.1	4.0	110	79	6.1	0.12	0.05	35.89	0.25	0.27	3.8	3.1	0.16	В
	Mar-24	22°C	7.65	113	171	9.6	6.0	118	91	27	115	1.1	4.0	120	94	9.2	0.15	0.03	46.20	0.20	0.22	4.2	3.4	0.17	В
	Apr-24	23°C	7.79	118	178	9.4	7.0	121	90	31	119	1.2	4.0	110	79	6.1	0.21	0.09	48.72	0.23	0.26	3.9	3.2	0.15	В
	May-24	18°C	7.66	110	168	9.2	8.0	115	85	30	112	1.3	4.0	140	94	4.5	0.28	0.12	53.11	0.20	0.21	4.1	3.5	0.17	В
	Jun-24	18°C	7.54	114	173	9.0	8.0	118	87	31	116	1.3	4.0	110	70	9.2	0.29	0.14	55.26	0.20	0.22	4.2	3.4	0.17	В
	Jul-24	20°C	7.93	80	123	9.8	5.0	88	72	16	80	1.3	BDL (<5)	130	79	6.8	0.25	0.12	55.18	0.24	0.25	2.1	2.4	0.10	В
	Aug-24	17°C	7.99	85	125	10	4.8	90	80	10	80	1.2	BDL (<5)	120	94	6.1	0.28	0.09	58.10	.23	.27	2.5	2.3	0.07	В
	Sep-24	19°C	7.79	88	142	8.8	4.0	90	71	19	78	1.2	BDL (<5)	110	79	4.5	0.11	0.06	41.11	0.16	0.20	3.4	3.1	0.1	В
	Oct-24	21°C	7.83	153	238	9.1	8.0	134	97	37	123	1.2	BDL (<5)	120	94	6.8	0.13	0.06	42.24	0.16	0.22	3.1	2.5	0.09	В
	Oct-24	21°C	7.83	153	238	9.1	8.0	134	97	37	123	1.2	BDL (<5)	120 Yamuna Canal at		6.8	0.13	0.06	42.24	0.16	0.22	3.1	2.5	0.09	
S.No.	Oct-24	21°C	7.83	153 TDS (mg/l)	238 EC (μS/cm)	9.1 DO (mg/l)	8.0 Chloride (mg/l)	134 Hardness (mg/l)	97 Calcium (mg/I)	37 Magnesium (mg/l)	123 Alkalinity (mg/l)	1.2 BOD (mg/I)	BDL (<5)			6.8 Fecal Steptococcss (MPN/100 ml)	0.13 Nitrate-N (mg/l)	0.06 Nitrite-N (mg/I)	42.24 Sulphate (mg/l)	0.16 Phosphate (mg/I)	0.22 Fluoride (mg/l)	3.1 Sodium (mg/l)	2.5 Potassium (mg/l)	0.09 sar	B Designated Best use (DBU) Water Quality Criteria
s.No.			7.83 pH 7.96				Chloride		Calcium		Alkalinity		, ,	Yamuna Canal at	Dakpathar	Fecal Steptococcss			Sulphate			<u> </u>			Designated Best use (DBU) Water Quality
⊢	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	Yamuna Canal at TC (MPN/100 ml)	Dakpathar FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
⊢	Month Jan-24	Temp 19°C	рн 7.96	TDS (mg/I) 74	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/i)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l) 4.0	Yamuna Canal at TC (MPN/100 ml) 79	Dakpathar FC (MPN/100 ml) 49	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l) 0.07	Nitrite-N (mg/l)	Sulphate (mg/I)	Phosphate (mg/l)	Fluoride (mg/l) 0.20	Sodium (mg/l)	Potassium (mg/l) 2.5	sar 0.16	Designated Best use (DBU) Water Quality Criteria
⊢	Month Jan-24 Feb-24	тетр 19°С 13°С	рн 7.96 7.89	TDS (mg/l) 74 80	EC (μS/cm) 112 122	DO (mg/l) 10.2 10.0	Chloride (mg/l) 3.0 4.0	Hardness (mg/1) 79 86	Calcium (mg/l) 65	Magnesium (mg/l) 14 17	Alkalinity (mg/I) 77 84	BOD (mg/l) 1.0	COD (mg/l) 4.0 4.0	Yamuna Canal at TC (MPN/100 ml) 79 94	Pakpathar FC (MPN/100 ml) 49 49	Fecal Steptococcss (MPN/100 ml) 4.5 4.0	Nitrate-N (mg/l) 0.07 0.09	0.01 0.03	Sulphate (mg/l) 40.43 48.52	Phosphate (mg/l) 0.13 0.22	Fluoride (mg/l) 0.20 0.15	3.2 3.5	Potassium (mg/l) 2.5 2.8	SAR 0.16 0.16	Designated Best use (DBU) Water Quality Criteria B
⊢	Month Jan-24 Feb-24 Mar-24	19°C 13°C 21°C	рн 7.96 7.89 7.81	TDS (mg/l) 74 80 87	EC (μS/cm) 112 122 133	DO (mg/l) 10.2 10.0 9.8	Chloride (mg/l) 3.0 4.0 5.0	Hardness (mg/l) 79 86 94	Calcium (mg/l) 65 69 72	Magnesium (mg/l) 14 17 22	Alkalinity (mg/l) 77 84	BOD (mg/l) 1.0 1.0	COD (mg/l) 4.0 4.0 4.0	Yamuna Canal at TC (MPN/100 ml) 79 94 63	Pakpathar FC (MPN/100 ml) 49 49 46	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0	Nitrate-N (mg/1) 0.07 0.09 0.13	Nitrite-N (mg/l) 0.01 0.03 0.03	Sulphate (mg/l) 40.43 48.52 40.30	Phosphate (mg/l) 0.13 0.22 0.26	Fluoride (mg/l) 0.20 0.15 0.21	3.2 3.5 3.8	Potassium (mg/l) 2.5 2.8 2.9	SAR 0.16 0.16 0.17	Designated Best use (DBU) Water Quality Criteria B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24	19°C 13°C 21°C 24°C	рн 7.96 7.89 7.81 7.93	TDS (mg/l) 74 80 87 90	EC (μ5/cm) 112 122 133 136	DO (mg/l) 10.2 10.0 9.8 9.6	Chloride (mg/l) 3.0 4.0 5.0 6.0	Hardness (mg/l) 79 86 94	Calcium (mg/l) 65 69 72 70	Magnesium (mg/l) 14 17 22 25	Alkalinity (mg/l) 77 84 92 92	BOD (mg/l) 1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79	Pakpathar FC (MPN/100 ml) 49 49 46 49	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0	Nitrate-N (mg/l) 0.07 0.09 0.13	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06	Sulphate (mg/l) 40.43 48.52 40.30 42.93	Phosphate (mg/l) 0.13 0.22 0.26 0.21	Fluoride (mg/l) 0.20 0.15 0.21 0.25	3.2 3.5 3.8 3.3	Potassium (mg/l) 2.5 2.8 2.9 2.7	SAR 0.16 0.16 0.17 0.15	Designated Best use (DBU) Water Quality Criteria B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24	Temp 19°C 13°C 21°C 24°C 20°C	рн 7.96 7.89 7.81 7.93 7.73	TDS (mg/l) 74 80 87 90	EC (μS/cm) 112 122 133 136 134	DO (mg/l) 10.2 10.0 9.8 9.6 9.4	Chloride (mg/l) 3.0 4.0 5.0 6.0	Hardness (mg/l) 79 86 94 95	Calcium (mg/l) 65 69 72 70 68	Magnesium (mg/l) 14 17 22 25 23	Alkalinity (mg/l) 77 84 92 92	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70	Dakpathar FC (MPN/100 ml) 49 49 46 49 46	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26	3.2 3.5 3.8 3.3 3.6	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9	SAR 0.16 0.16 0.17 0.15 0.16	Designated Best use (DBU) Water Quality Criteria B B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C	7.96 7.89 7.81 7.93 7.73	TDS (mg/l) 74 80 87 90 88 86	EC (us/cm) 112 122 133 136 134 130	DO (mg/l) 10.2 10.0 9.8 9.6 9.4	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0	Hardness (mg/l) 79 86 94 95 91 89	Calcium (mg/l) 65 69 72 70 68 71	Magnesium (mg/l) 14 17 22 25 23 18	Alkalinity (mg/l) 77 84 92 92 90 87	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 1.0	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94	Dakpathar FC (MPN/100 ml) 49 49 46 49 46 70	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 6.8	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24	3.2 3.5 3.8 3.3 3.6 3.8	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6	SAR 0.16 0.16 0.17 0.15 0.16 0.17	Designated Best use (DBU) Water Quality Criteria B B B B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C 20°C	рн 7.96 7.89 7.81 7.93 7.70 7.82 7.88 7.83	TDS (mg/l) 74 80 87 90 88 86 60 65	112 122 133 136 134 130 92 100 126	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 4.0	Hardness (mg/l) 79 86 94 95 91 89 78 80 82	Caldum (mg/1) 65 69 72 70 68 71 66 70 55	Magnesium (mg/l) 14 17 22 25 23 18	Alkalinity (mg/l) 77 84 92 92 90 87 65	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84	Pakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.0 4.0	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18 0.07	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63 34.98	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18 0.10	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23	3.2 3.5 3.8 3.3 3.6 3.8 2.8 2.7	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4 2.8	SAR 0.16 0.17 0.15 0.16 0.17 0.14 0.08 0.09	Designated Best use (DBU) Water Quality Criteria B B B B B B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C	7.96 7.89 7.81 7.93 7.73 7.70 7.82	TDS (mg/l) 74 80 87 90 88 86 60	112 122 133 136 134 130 92 100	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2 10 10.2	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 4.0 4.2	Hardness (mg/l) 79 86 94 95 91 89 78 80	Calclum (mg/l) 65 69 72 70 68 71 66 70	Magnesium (mg/l) 14 17 22 25 23 18 12	Alkalinity (mg/l) 77 84 92 92 90 87 65	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84 94 140 170	Dakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63 70 110	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.0 4.0 4.0 4.5	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05 0.04	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23	3.2 3.5 3.8 3.3 3.6 3.8 2.8	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4	SAR 0.16 0.17 0.15 0.16 0.17 0.14 0.08	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C 20°C	рн 7.96 7.89 7.81 7.93 7.70 7.82 7.88 7.83	TDS (mg/l) 74 80 87 90 88 86 60 65	112 122 133 136 134 130 92 100 126	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2 10 10.2	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 4.0 4.0 5.0	Hardness (mg/l) 79 86 94 95 91 89 78 80 82	Caldum (mg/1) 65 69 72 70 68 71 66 70 55	Magnesium (mg/l) 14 17 22 25 23 18 12 10 27	Alkalinity (mg/1) 77 84 92 92 90 87 65 64	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84 94 140	Dakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63 70 110	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.0 4.5 9.2	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18 0.07	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05 0.04 0.05	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63 34.98	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18 0.10	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23 0.17	3.2 3.5 3.8 3.3 3.6 3.8 2.8 2.7	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4 2.8	SAR 0.16 0.17 0.15 0.16 0.17 0.14 0.08 0.09	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B B
⊢	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C 20°C	рн 7.96 7.89 7.81 7.93 7.70 7.82 7.88 7.83	TDS (mg/l) 74 80 87 90 88 86 60 65	112 122 133 136 134 130 92 100 126	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2 10 10.2	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 4.0 4.0 5.0	Hardness (mg/l) 79 86 94 95 91 89 78 80 82	Caldum (mg/1) 65 69 72 70 68 71 66 70 55	Magnesium (mg/l) 14 17 22 25 23 18 12 10 27	Alkalinity (mg/1) 77 84 92 92 90 87 65 64	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84 94 140 170	Dakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63 70 110	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.0 4.5 9.2	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18 0.07	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05 0.04 0.05	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63 34.98	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18 0.10	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23 0.17	3.2 3.5 3.8 3.3 3.6 3.8 2.8 2.7	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4 2.8	SAR 0.16 0.17 0.15 0.16 0.17 0.14 0.08 0.09	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B
38	Month Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Jul-24 Aug-24 Sep-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C 20°C 22°C	рн 7.96 7.89 7.81 7.93 7.70 7.82 7.88 7.83 8.22	TDS (mg/l) 74 80 87 90 88 86 60 65 79 89	112 122 133 136 134 130 92 100 126 138	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2 10 10.2 9.0 9.4	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 7.0 4.0 4.2 5.0 6.0	Hardness (mg/l) 79 86 94 95 91 89 78 80 82 81	Calcium (mg/l) 65 69 72 70 68 71 66 70 55 71	Magnesium (mg/l) 14 17 22 25 23 18 12 10 27 10	Alkalinity (mg/l) 77 84 92 92 90 87 65 64 66 78	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84 94 140 170 T Yamuna at Dakpa	Pakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63 70 110 130 athar, Dehradun	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.5 9.2 6.1	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18 0.07	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05 0.04 0.05 0.04	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63 34.98 33.77	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18 0.10 0.10	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23 0.17 0.17	3.2 3.5 3.8 3.3 3.6 3.8 2.8 2.7 3.1 4.2	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4 2.8 2.3	SAR 0.16 0.17 0.15 0.16 0.17 0.14 0.08 0.09 0.12	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B B
38 S.No.	Month Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jul-24 Aug-24 Sep-24 Oct-24	Temp 19°C 13°C 21°C 24°C 20°C 18°C 20°C 17°C 20°C 7 Emp	рн 7.96 7.89 7.81 7.93 7.73 7.70 7.82 7.88 7.83 8.22	TDS (mg/l) 74 80 87 90 88 86 60 65 79 89	EC (µS/cm) 112 122 133 136 134 130 92 100 126 138 EC (µS/cm)	DO (mg/l) 10.2 10.0 9.8 9.6 9.4 9.2 10 10.2 9.0 9.4	Chloride (mg/l) 3.0 4.0 5.0 6.0 7.0 7.0 4.0 4.2 5.0 6.0	Hardness (mg/l) 79 86 94 95 91 89 78 80 82 81	Calclum (mg/l) 65 69 72 70 68 71 66 70 55 71	Magnesium (mg/l) 14 17 22 25 23 18 12 10 27 10	Alkalinity (mg/l) 77 84 92 90 87 65 64 66 78	BOD (mg/l) 1.0 1.0 1.0 1.0 1.0 1.0 BDL (<1) BDL (<1) BDL (<1) BDL (<1)	COD (mg/l) 4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	Yamuna Canal at TC (MPN/100 ml) 79 94 63 79 70 94 84 94 140 170 r Yamuna at Dakpa	Pakpathar FC (MPN/100 ml) 49 49 46 49 46 70 63 70 110 130 Sthar, Dehradun FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml) 4.5 4.0 4.0 4.0 4.0 4.5 9.2 6.1	Nitrate-N (mg/l) 0.07 0.09 0.13 0.11 0.15 0.14 0.16 0.18 0.07 0.07	Nitrite-N (mg/l) 0.01 0.03 0.03 0.06 0.04 0.05 0.04 0.05 0.04 0.05	Sulphate (mg/l) 40.43 48.52 40.30 42.93 46.05 48.12 48.1 50.63 34.98 33.77	Phosphate (mg/l) 0.13 0.22 0.26 0.21 0.19 0.21 0.15 0.18 0.10 Phosphate (mg/l)	Fluoride (mg/l) 0.20 0.15 0.21 0.25 0.26 0.24 0.23 0.17 0.17	3.2 3.5 3.8 3.3 3.6 3.8 2.8 2.7 3.1 4.2	Potassium (mg/l) 2.5 2.8 2.9 2.7 2.9 2.6 2.5 2.4 2.8 2.3	SAR 0.16 0.16 0.17 0.15 0.16 0.17 0.14 0.08 0.09 0.12	Designated Best use (DBU) Water Quality Criteria B B B B B B B B B B B B B B B B B B

	Apr-24	22°C	7.98	99	150	9.8	7.0	101	73	28	96	1.0	4.0	70	46	4.5	0.10	0.04	41.73	0.13	0.23	3.6	3.0	0.16	В
	May-24	19°C	7.80	94	142	9.6	7.0	98	72	26	95	1.0	4.0	94	49	4.0	0.11	0.07	44.52	0.16	0.19	3.8	3.1	0.17	В
	Jun-24	19°C	7.82	96	146	9.4	7.0	100	78	22	98	1.0	4.0	70	49	6.1	0.10	0.08	46.70	0.15	0.20	4.2	3.6	0.18	В
	Jul-24	19°C	7.86	65	97	9.8	5.0	70	62	8	66	BDL (<1)	BDL (<5)	94	49	4	0.12	0.07	46.08	0.20	0.22	2.5	2.9	0.13	В
Ш	Aug-24	18°C	7.91	70	90	9.4	4.6	75	68	7	65	BDL (<1)	BDL (<5)	84	46	4.5	0.15	0.08	48.10	.21	.26	3.2	2.8	0.09	В
	Sep-24	20°C	7.88	84	135	9.2	4.0	77	52	25	61	BDL (<1)	BDL (<5)	94	70	4.0	0.08	0.04	27.96	0.15	0.24	3.3	2.9	0.09	В
Ш	Oct-24	20°C	7.97	102	165	9.6	5.0	69	65	4	65	BDL (<1)	BDL (<5)	94	49	4.0	0.08	0.04	28.76	0.15	0.22	2.9	2.7	0.08	В
	-									ı			Riv	er Yamuna at Lakh	war, Dehradun							_			
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)) Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
40	Jan-24	19°C	8.13	84	127	10.8	3.0	89	75	14	87	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.06	26.12	0.20	0.15	2.5	2.1	0.11	A
	Feb-24	13°C	7.99	77	117	10.6	4.0	83	66	17	80	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.02	33.96	0.25	0.18	2.8	2.3	0.13	A
	Mar-24	20°C	7.80	69	105	10.4	5.0	78	58	20	73	1.0	4.0	<1.8	<1.8	<1.8	0.11	0.03	28.11	0.18	0.24	3.0	2.6	0.15	Α
	Apr-24	19°C	7.91	76	115	10.2	6.0	82	59	23	78	1.0	4.0	<1.8	<1.8	<1.8	0.09	0.05	32.41	0.26	0.27	2.6	2.1	0.12	A
\square	May-24	19°C	7.75	82	125	10.0	6.0	86	66	20	84	1.0	4.0	<1.8	<1.8	<1.8	0.12	0.06	33.48	0.20	0.21	2.9	2.3	0.14	A
\sqcup	Jun-24	19°C	7.73	84	127	10.0	7.0	89	69	20	88	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.06	35.26	0.21	0.20	3.2	2.6	0.15	A
\vdash	Jul-24	19°C	7.95	77	110	10.2	4.0	76	55	21	70	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.13	0.06	35.72	0.22	0.25	4.0	2.7	0.2	Α
\vdash	Aug-24	17°C	7.95	75	95	10.0	3.6	80	60	20	75	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.15	0.08	38.63	.24	.25	3.8	2.6	0.17	A
\vdash	Sep-24	19°C	7.78	90	145	9.4	4.0	84	59	25	71	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	24.96	0.14	0.22	3.7	2.6	0.16	A
	Oct-24	20°C	8.26	87	142	10.2	6.0	110	86	24	102	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.08	0.03	23.89	0.14	0.22	3.4	2.4	0.15	A
	1	_	Г				Chloride		Calcium		Alkalinity			ver Yamuna at Ka		Fecal Steptococcss			Sulphate						Designated Best use
S.No.	Month	Temp	pH	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR 0.12	(DBU) Water Quality
41	Jan-24	17°C	8.26	97	148	10.6	4.0	99 96	82	17	95	1.0	4.0	48	40 34	2.0	0.09	0.05	40.21	0.23	0.13	2.8	2.5	0.12	A
\vdash	Feb-24 Mar-24	12°C 22°C	7.93	92 87	139	10.4	5.0 6.0	96	75 66	21	94 88	1.0	4.0	41	39	2.0	0.11	0.01	45.39 39.08	0.16	0.16	3.2	2.8 3.0	0.14	A
\vdash	Apr-24	24°C	8.02	96	146	10.2	6.0	90	72	27	97	1.0	4.0	49	33	2.0	0.13	0.02	43.25	0.23	0.11	3.0	2.6	0.16	A
\vdash	Арт-24 Мау-24	18°C	7.91	91	139	9.8	7.0	97	73	24	93	1.0	4.0	48	40	2.0	0.11	0.04	46.19	0.21	0.18	3.4	2.9	0.15	A
\vdash	Jun-24	19°C	7.84	105	159	9.6	8.0	101	79	22	98	1.0	4.0	47	39	4.0	0.13	0.08	48.16	0.28	0.20	3.8	2.7	0.16	A
	Jul-24	20°C	7.88	80	125	10.4	5.0	85	62	23	75	BDL (<1)	BDL (<5)	48	41	6.1	0.18	0.08	50.08	0.27	0.26	3.8	2.6	0.18	A
\vdash	Aug-24	18°C	7.96	75	115	10.4	4.7	90	70	20	80	BDL (<1)	BDL (<5)	47	40	4.5	0.20	0.09	52.63	.25	.24	3.9	2.7	0.15	A
\vdash	Sep-24	21°C	7.82	81	130	9.2	5.0	92	68	24	74	BDL (<1)	BDL (<5)	48	41	4.0	0.09	0.03	39.00	0.22	0.21	3.6	3.0	0.13	A
\vdash	Oct-24	20°C	8.13	107	177	9.6	4.0	84	74	10	76	BDL (<1)	BDL (<5)	48	40	4.0	0.09	0.03	36.83	0.22	0.21	3.1	2.3	0.12	A
													` '		muna at Dakpathar,										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)) Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
42	Jan-24	18°C	7.75	75	114	10.4	3.0	81	65	16	78	1.0	4.0	47	39	<1.8	0.12	0.04	43.83	0.19	0.12	3.1	2.3	0.15	A
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\Box	Feb-24	12°C	7.86	83	125	10.2	4.0	90	71	19	87	1.0	4.0	48	41	<1.8	0.07	0.03	50.11	0.22	0.24	3.3	2.6	0.15	A

	Apr-24	24°C	7.79	84	127	9.6	5.0	88	64	24	86	1.1	4.0	48	41	<1.8	0.09	0.01	47.62	0.26	0.25	3.4	2.5	0.16	A
	May-24	18°C	7.60	89	135	9.2	6.0	94	68	26	91	1.2	4.0	47	40	<1.8	0.10	0.03	50.63	0.26	0.28	3.7	2.7	0.17	A
	Jun-24	18°C	7.58	92	140	9.0	7.0	98	74	24	96	1.2	4.0	49	33	<1.8	0.11	0.04	52.46	0.25	0.30	4.1	2.8	0.18	A
	Jul-24	20°C	7.91	82	128	10.2	4.0	70	61	9	55	1.2	BDL (<5)	47	40	<1.8	0.12	0.03	52.19	0.23	0.23	3.6	2.9	0.19	A
	Aug-24	17°C	7.90	90	95	10	4.3	75	65	10	65	1.2	BDL (<5)	41	34	<1.8	0.15	0.05	55.41	.23	.25	3.7	2.8	0.13	A
	Sep-24	21°C	7.86	90	142	9.8	5.0	76	54	22	64	1.2	BDL (<5)	39	33	<1.8	0.09	0.03	49.02	0.18	0.20	3.9	2.7	0.14	A
	Oct-24	21°C	7.79	84	138	10.1	4.0	69	53	16	68	BDL (<1)	BDL (<5)	48	41	<1.8	0.09	0.03	48.50	0.18	0.20	3.5	2.4	0.12	A
													F	iver Tons at Selaqı	ui, Dehradun										
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
43	Jan-24	18°C	7.93	180	271	7.0	10.0	242	220	22	210	2.3	8.0	350	240	70	0.16	0.09	128.67	0.26	0.20	7.5	2.6	0.21	В
	Feb-24	12°C	7.79	191	288	6.8	11.0	260	233	27	235	2.4	8.0	430	350	94	0.23	0.04	136.46	0.13	0.29	7.9	3.0	0.21	В
	Mar-24	22°C	7.90	199	298	6.6	12.0	272	240	32	248	2.7	9.0	430	280	110	0.18	0.06	128.13	0.16	0.24	7.6	3.4	0.20	В
	Apr-24	20°C	7.71	180	271	6.4	13.0	239	203	36	215	2.8	9.0	430	350	140	0.22	0.11	130.42	0.20	0.28	7.9	3.6	0.22	В
	May-24	21°C	7.98	196	295	6.2	14.0	251	210	41	223	2.9	9.0	350	280	110	0.26	0.09	145.62	0.24	0.33	8.3	3.8	0.23	В
	Jun-24	18°C	7.96	194	293	6.4	13.0	257	207	50	218	2.8	9.0	350	220	110	0.30	0.10	147.11	0.25	0.30	9.0	3.6	0.24	В
	Jul-24	20°C	7.82	190	283	6	10.0	260	228	32	228	2.8	9.0	430	350	94	0.24	0.09	134.63	0.20	0.29	15.4	3.5	0.41	В
	Aug-24	17°C	7.93	177	280	6	10	266	220	46	210	2.6	9.0	350	280	70	0.20	0.11	130.86	.27	.23	17.1	4.6	0.8	В
<u> </u>	Sep-24	21°C	8.01	189	300	6.2	9.0	268	214	54	215	2.8	10.0	430	280	79	0.06	0.01	116.08	0.18	0.23	15.2	3.1	0.7	В
	Oct-24	21°C	8.28	216	338	5.9	16.0	297	253	44	223	2.8	10.8	350	280	94	0.06	0.01	118.24	0.19	0.23	16.1	4.6	0.74	В
							a		Calcium	•	Alkalinity	<u> </u>	River R	ispana U/S at Shik	har Fall, Dehradun	Fecal Steptococcss									Designated best use
															== /+ +=+ /+ == 1\				Sulphate						
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
S.No.	Jan-24	16°C	7.78	149	225	8.6	(mg/l) 6.0	157	(mg/l) 132	25	(mg/l) 152	1.0	4.0	70	33	(MPN/100 ml) <1.8	0.13	0.02	150.19	0.18	0.26	9.0	2.1	0.31	B
-	Jan-24 Feb-24	16°C 18°C	7.78 7.91	149 160	225 242	8.6 8.4	(mg/l) 6.0 7.0	157 171	(mg/l) 132 142	25 29	(mg/l) 152 165	1.0	4.0	70 63	33 46	(MPN/100 ml) <1.8 <1.8	0.13 0.15	0.02	150.19	0.18 0.24	0.26 0.34	9.0	2.1	0.31	B B
-	Jan-24 Feb-24 Mar-24	16°C 18°C 16°C	7.78 7.91 7.70	149 160 147	225 242 222	8.6 8.4 8.6	(mg/l) 6.0 7.0 7.0	157 171 156	(mg/l) 132 142 125	25 29 31	(mg/l) 152 165 151	1.0 1.0 1.0	4.0 4.0 4.0	70 63 70	33 46 49	(MPN/100 ml) <1.8 <1.8 <1.8	0.13 0.15 0.10	0.02 0.04 0.02	150.19 148.79 140.30	0.18 0.24 0.20	0.26 0.34 0.26	9.0 8.7 8.3	2.1 2.6 2.8	0.31 0.29 0.29	B B B
-	Jan-24 Feb-24 Mar-24 Apr-24	16°C 18°C 16°C 18°C	7.78 7.91 7.70 7.55	149 160 147 136	225 242 222 205	8.6 8.4 8.6 8.4	(mg/l) 6.0 7.0 7.0 8.0	157 171 156 143	(mg/l) 132 142 125 109	25 29 31 34	(mg/l) 152 165 151 139	1.0 1.0 1.0 1.1	4.0 4.0 4.0 4.0	70 63 70 84	33 46 49 46	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8	0.13 0.15 0.10 0.18	0.02 0.04 0.02 0.08	150.19 148.79 140.30 146.71	0.18 0.24 0.20 0.25	0.26 0.34 0.26 0.32	9.0 8.7 8.3 8.0	2.1 2.6 2.8 3.0	0.31 0.29 0.29 0.29	B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 May-24	16°C 18°C 16°C 18°C	7.78 7.91 7.70 7.55 7.72	149 160 147 136 148	225 242 222 205 224	8.6 8.4 8.6 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0	157 171 156 143 157	(mg/l) 132 142 125 109 119	25 29 31 34 38	(mg/l) 152 165 151 139 152	1.0 1.0 1.0 1.1 1.2	4.0 4.0 4.0 4.0 4.0	70 63 70 84 94	33 46 49 46 49	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8	0.13 0.15 0.10 0.18 0.20	0.02 0.04 0.02 0.08 0.07	150.19 148.79 140.30 146.71 155.85	0.18 0.24 0.20 0.25 0.28	0.26 0.34 0.26 0.32 0.28	9.0 8.7 8.3 8.0 7.7	2.1 2.6 2.8 3.0 3.2	0.31 0.29 0.29 0.29 0.27	B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	16°C 18°C 16°C 18°C 19°C	7.78 7.91 7.70 7.55 7.72 7.70	149 160 147 136 148 140	225 242 222 205 224 211	8.6 8.4 8.6 8.4 8.2 8.4	(mg/l) 6.0 7.0 7.0 8.0 9.0	157 171 156 143 157 124	(mg/l) 132 142 125 109 119 105	25 29 31 34 38 19	(mg/l) 152 165 151 139 152 135	1.0 1.0 1.0 1.1 1.2	4.0 4.0 4.0 4.0 4.0 4.0	70 63 70 84 94	33 46 49 46 49 110	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 1.2	0.13 0.15 0.10 0.18 0.20 0.20	0.02 0.04 0.02 0.08 0.07 0.06	150.19 148.79 140.30 146.71 155.85	0.18 0.24 0.20 0.25 0.28 0.28	0.26 0.34 0.26 0.32 0.28 0.26	9.0 8.7 8.3 8.0 7.7 7.2	2.1 2.6 2.8 3.0 3.2 3.0	0.31 0.29 0.29 0.29 0.27 0.28	B B B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	16°C 18°C 16°C 18°C 19°C 19°C	7.78 7.91 7.70 7.55 7.72 7.70 7.60	149 160 147 136 148 140	225 242 222 205 224 211 250	8.6 8.4 8.6 8.4 8.2 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0	157 171 156 143 157 124	(mg/l) 132 142 125 109 119 105	25 29 31 34 38 19	(mg/l) 152 165 151 139 152 135	1.0 1.0 1.0 1.1 1.2 1.2	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	70 63 70 84 94 140	33 46 49 46 49 110 94	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.6 <1.8	0.13 0.15 0.10 0.18 0.20 0.20 0.25	0.02 0.04 0.02 0.08 0.07 0.06	150.19 148.79 140.30 146.71 155.85 152.97	0.18 0.24 0.20 0.25 0.28 0.28 0.23	0.26 0.34 0.26 0.32 0.28 0.26 0.25	9.0 8.7 8.3 8.0 7.7 7.2 6.3	2.1 2.6 2.8 3.0 3.2 3.0 2.5	0.31 0.29 0.29 0.29 0.27 0.28 0.21	B B B B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	16°C 18°C 16°C 18°C 19°C 19°C 19°C 21°C	7.78 7.91 7.70 7.55 7.72 7.60 7.35	149 160 147 136 148 140 165	225 242 222 205 224 211 250 244	8.6 8.4 8.6 8.4 8.2 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 5.3	157 171 156 143 157 124 168	(mg/l) 132 142 125 109 119 105 125 81	25 29 31 34 38 19 43 26	(mg/l) 152 165 151 139 152 135 135 103	1.0 1.0 1.0 1.1 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5)	70 63 70 84 94 140 110	33 46 49 46 49 110 94 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.8 4.8 4.4	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09	150.19 148.79 140.30 146.71 155.85 152.97 142.85	0.18 0.24 0.20 0.25 0.28 0.28 0.23	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36	B B B B B B B B B B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24	16°C 18°C 16°C 18°C 19°C 19°C 19°C 21°C 20°C	7.78 7.91 7.70 7.55 7.72 7.60 7.35 7.58	149 160 147 136 148 140 165 155	225 242 222 205 224 211 250 244 249	8.6 8.4 8.6 8.4 8.2 8.4 8.2 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 6.0 5.3 6.0	157 171 156 143 157 124 168 107	(mg/l) 132 142 125 109 119 105 125 81 89	25 29 31 34 38 19 43 26 43	(mg/l) 152 165 151 139 152 135 135 103	1.0 1.0 1.0 1.1 1.2 1.2 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120	33 46 49 46 49 110 94 70	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.5 4.5	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22 0.18	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09 0.03	150.19 148.79 140.30 146.71 155.85 152.97 142.85 140.11 151.09	0.18 0.24 0.20 0.25 0.28 0.28 0.23 .25 0.15	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26 0.24	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8 2.9	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36 0.46	B B B B B B B B B B B B B B B B B B
-	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24	16°C 18°C 16°C 18°C 19°C 19°C 19°C 21°C	7.78 7.91 7.70 7.55 7.72 7.60 7.35	149 160 147 136 148 140 165	225 242 222 205 224 211 250 244	8.6 8.4 8.6 8.4 8.2 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 5.3	157 171 156 143 157 124 168	(mg/l) 132 142 125 109 119 105 125 81	25 29 31 34 38 19 43 26	(mg/l) 152 165 151 139 152 135 135 103	1.0 1.0 1.0 1.1 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120 110	33 46 49 46 49 110 94 70 79	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.8 4.8 4.4	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09	150.19 148.79 140.30 146.71 155.85 152.97 142.85	0.18 0.24 0.20 0.25 0.28 0.28 0.23	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36	B B B B B B B B B B B B B
44	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	16°C 18°C 18°C 18°C 19°C 19°C 19°C 21°C 20°C	7.78 7.91 7.70 7.55 7.72 7.70 7.60 7.35 7.58 7.59	149 160 147 136 148 140 165 155 238	225 242 222 205 224 211 250 244 249 383	8.6 8.4 8.6 8.4 8.2 8.4 8.2 7.8	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 6.0 5.3 6.0	157 171 156 143 157 124 168 107 132 272	(mg/l) 132 142 125 109 119 105 125 81 89	25 29 31 34 38 19 43 26 43 34	(mg/l) 152 165 151 139 152 135 135 103	1.0 1.0 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120 110 120 Rispana D/S Near I	33 46 49 46 49 110 94 70 79 94	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.5 4.5	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22 0.18 0.18	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09 0.03 0.03	150.19 148.79 140.30 146.71 155.85 152.97 142.85 140.11 151.09	0.18 0.24 0.20 0.25 0.28 0.28 0.23 .25 0.15 0.15	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26 0.24 0.23	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4 9.6 8.3	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8 2.9 4.3	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36 0.46 0.4	B B B B B B B B B B B B B B B B B B B
5.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	16°C 18°C 16°C 18°C 19°C 19°C 19°C 21°C 20°C	7.78 7.91 7.70 7.55 7.72 7.60 7.35 7.58	149 160 147 136 148 140 165 155 238	225 242 222 205 224 211 250 244 249	8.6 8.4 8.6 8.4 8.2 8.4 8.2 8.4 8.2	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 6.0 5.3 6.0	157 171 156 143 157 124 168 107	(mg/l) 132 142 125 109 119 105 125 81 89 238	25 29 31 34 38 19 43 26 43	(mg/l) 152 165 151 139 152 135 135 153 103 96	1.0 1.0 1.0 1.1 1.2 1.2 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120 110 120 Rispana D/S Near I TC (MPN/100 ml)	33 46 49 46 49 110 94 70 79	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 4.5 4	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22 0.18	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09 0.03	150.19 148.79 140.30 146.71 155.85 152.97 142.85 140.11 151.09	0.18 0.24 0.20 0.25 0.28 0.28 0.23 .25 0.15	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26 0.24	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8 2.9 4.3	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36 0.46	B B B B B B B B B B B B
44	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24 Month Jan-24	16°C 18°C 18°C 18°C 19°C 19°C 19°C 21°C 20°C	7.78 7.91 7.70 7.55 7.72 7.70 7.60 7.35 7.58 7.59	149 160 147 136 148 140 165 155 238	225 242 222 205 224 211 250 244 249 383	8.6 8.4 8.6 8.4 8.2 8.4 8.2 7.8	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 6.0 5.3 6.0 6.0	157 171 156 143 157 124 168 107 132 272	(mg/l) 132 142 125 109 119 105 125 81 89 238	25 29 31 34 38 19 43 26 43 34	(mg/l) 152 165 151 139 152 135 153 103 96 175	1.0 1.0 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120 110 120 Rispana D/S Near I τc (MPN/100 mi) River was dry.	33 46 49 46 49 110 94 70 79 94	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.4 4 4.5 4 Fecal Steptococcss	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22 0.18 0.18	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09 0.03 0.03	150.19 148.79 140.30 146.71 155.85 152.97 142.85 140.11 151.09 146.89	0.18 0.24 0.20 0.25 0.28 0.28 0.23 .25 0.15 0.15	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26 0.24 0.23	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4 9.6 8.3	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8 2.9 4.3	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36 0.46 0.4	B B B B B B B B B B B B B B B B B B B
5.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	16°C 18°C 18°C 18°C 19°C 19°C 19°C 21°C 20°C	7.78 7.91 7.70 7.55 7.72 7.70 7.60 7.35 7.58 7.59	149 160 147 136 148 140 165 155 238	225 242 222 205 224 211 250 244 249 383	8.6 8.4 8.6 8.4 8.2 8.4 8.2 7.8	(mg/l) 6.0 7.0 7.0 8.0 9.0 9.0 6.0 5.3 6.0 6.0	157 171 156 143 157 124 168 107 132 272	(mg/l) 132 142 125 109 119 105 125 81 89 238	25 29 31 34 38 19 43 26 43 34	(mg/l) 152 165 151 139 152 135 153 103 96 175	1.0 1.0 1.0 1.1 1.2 1.2 1.2 1.2 1.2 1.2	4.0 4.0 4.0 4.0 4.0 BDL (<5) BDL (<5) BDL (<5) BDL (<5)	70 63 70 84 94 140 110 120 110 120 Rispana D/S Near I TC (MPN/100 ml)	33 46 49 46 49 110 94 70 79 94	(MPN/100 ml) <1.8 <1.8 <1.8 <1.8 <1.8 <1.8 <1.4 4 4.5 4 Fecal Steptococcss	0.13 0.15 0.10 0.18 0.20 0.20 0.25 0.22 0.18 0.18	0.02 0.04 0.02 0.08 0.07 0.06 0.07 0.09 0.03 0.03	150.19 148.79 140.30 146.71 155.85 152.97 142.85 140.11 151.09 146.89	0.18 0.24 0.20 0.25 0.28 0.28 0.23 .25 0.15 0.15	0.26 0.34 0.26 0.32 0.28 0.26 0.25 .26 0.24 0.23	9.0 8.7 8.3 8.0 7.7 7.2 6.3 7.4 9.6 8.3	2.1 2.6 2.8 3.0 3.2 3.0 2.5 2.8 2.9 4.3	0.31 0.29 0.29 0.29 0.27 0.28 0.21 0.36 0.46 0.4	B B B B B B B B B B B B B B B B B B B

	Apr-24													River was dry.											
	May-24													River was dry.											
	Jun-24													River was dry.											
	Jul-24	19°C	7.82	263	402	6.6	13.0	205	148	57	187	2.6	9	170	110	9.3	0.35	0.12	149.05	0.27	0.33	11.2	4.1	0.34	В
	Aug-24	20°C	7.58	252	396	6.2	12.3	246	187	59	203	2	9	170	120	6.1	0.30	0.10	155.2	.23	.30	12.4	4.3	0.61	В
	Sep-24	22°C	7.49	235	376	6.2	12.0	240	175	65	189	1.8	6	220	140	6.8	0.18	0.03	105.99	0.19	0.29	14.9	3.2	0.73	В
	Oct-24	21°C	7.45	256	403	7.0	9.0	284	243	41	192	2.6	12	210	170	9.2	0.18	0.03	110.14	0.19	0.28	15.7	4.8	0.77	В
													River Risp	ana B/C to River Bi	ndal at Mothorowa	ila									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
46	Jan-24	17°C	7.35	281	422	2.4	32.0	295	233	62	266	28.0	100.0	17×10 ²	14×10 ²	540	0.26	0.09	112.40	0.17	0.28	28.5	8.0	0.72	Е
	Feb-24	18°C	7.52	295	445	2.2	34.0	306	239	67	282	29.0	100.0	14×10 ²	11×10 ²	540	0.32	0.02	113.5	0.14	0.23	29.2	8.3	0.72	Е
	Mar-24	18°C	7.43	280	421	2.4	32.0	294	223	71	285	28.0	90.0	17×10 ²	14×10 ²	920	0.27	0.03	110.10	0.11	0.18	29.9	8.5	0.76	E
	Apr-24	19°C	7.30	296	446	2.2	33.0	305	229	76	299	29.0	90.0	22×10 ²	13×10 ²	920	0.30	0.06	127.41	0.19	0.38	30.7	9.0	0.76	Е
	May-24	28°C	7.47	310	467	2.0	34.0	321	239	82	315	30.0	100.0	21×10 ²	14×10 ²	920	0.36	0.08	129.85	0.23	0.31	30.1	8.6	0.73	Е
<u> </u>	Jun-24	22°C	7.42	300	452	2.2	34.0	320	260	60	310	30.0	110.0	22×10 ²	14×10 ²	920	0.36	0.07	128.75	0.23	0.31	29.8	7.9	0.72	Е
<u> </u>	Jul-24	22°C	7.28	255	396	2.4	28.0	270	206	64	240	30.0	110.0	28×10 ²	17×10 ²	1600	0.32	0.08	122.08	0.26	0.28	21.8	6.5	0.58	Е
<u> </u>	Aug-24	21°C	7.32	258	399	2.6	29.0	243	171	72	193	32.0	128.0	1600	920	540	0.35	0.09	122.08	0.23	0.24	22.3	6.8	0.85	Е
<u> </u>	Sep-24	21°C	7.29	271	434	2.4	31.0	235	184	51	195	34.0	130.0	1600	540	350	0.25	0.04	103.14	0.19	0.31	26.2	4.9	0.99	Е
	Oct-24	21°C	7.23	278	445	1.4	37.0	325	267	58	243	32.0	110.0	17×102	11×102	540	0.26	0.04	113.06	0.18	0.31	25.4	6.9	0.97	Е
			<u> </u>				Chlodde		Calabara		Albelleler			indal U/S at Bindal	Bridge, Dehradun	Front Chamberson	•		Sulphate						Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
47	Jan-24	18°C	7.24	289	435	1.2	43.0	304	245	59	294	50.0	150.0	1600	920	430	0.25	0.09	132.10	0.16	0.26	44.6	14.7	1.11	Е
<u> </u>	Feb-24	19°C	7.38	306	460	1.0	45.0	325	255	70	314	52.0	160.0	1600	920	540	0.28	0.04	140.65	0.19	0.20	50.0	14.9	1.20	E
<u> </u>	Mar-24	18°C	7.19	292	439	1.2	44.0	306	230	76	298	51.0	160.0	1600	920	430	0.24	0.06	129.42	0.13	0.17	50.6	14.6	1.25	E
<u> </u>	Apr-24	22°C	7.38	312	468	1.0	45.0	323	243	80	318	52.0	170.0	1600	920	350	0.28	0.15	133.41	0.18	0.33	49.9	14.1	1.20	Е
\vdash	May-24	26°C	7.52	331	497	0.8	46.0	344	256	88	337	53.0	180.0	1600	920	540	0.33	0.12	135.96	0.26	0.28	50.4	13.9	1.18	Е
\vdash	Jun-24	24°C	7.56	326	490	1.0	45.0	380	300	80	368	51.0	170.0	22×10²	14×10 ²	920	0.33	0.10	136.90	0.29	0.28	51.2	14.2	1.14	Е
\vdash	Jul-24	24°C 22°C	7.73	253 265	391 401	1.4	40.0 35.0	276 253	216 182	60 71	268 197	51.0 48.0	170.0 160.0	22×10 ² 14×10 ²	14×10 ² 11×10 ²	920 920	0.38	0.12	125.63 130.25	.24	0.33	42.7 41.4	14.8 12.9	1.11	E E
\vdash	Aug-24 Sep-24	22°C	7.36	268	430	1.0	39.0	253	196	55	210	48.0	150.0	14×10 ⁻	920	430	0.32	0.10	130.25	0.17	0.25	43.1	6.5	1.54	E
\vdash	Oct-24	22°C	7.24	289	461	1.0	47.0	253	221	32	210	54.0	168.0	17×10 ²	14×10 ²	430	0.23	0.10	138.50	0.17	0.25	39.2	15.8	1.46	E
	000-24	22 C	7.21	209	701	1.0	77.0	233	221	32	210	57.0			i Chowk, Dehradun	730	0.20	0.10	150.50	0.17	0.23	39.2	13.6	1.40	
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride	Hardness (mg/l)	Calcium	Magnesium (mg/l)	Alkalinity	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
48	Jan-24	15°C	7.11	317	477	1.6	(mg/l) 32.0	331	(mg/l) 265	66	(mg/l) 323	46.0	140.0	22×10 ²	13×10 ²	(MPN/100 ml) 920	0.30	0.12	(mg/l) 132.72	0.18	0.25	42.9	17.1	1.02	Criteria E
—	Feb-24	18°C	7.23	337	506	1.4	34.0	357	278	79	346	48.0	150.0	21×10 ²	17×10 ²	920	0.35	0.09	129.44	0.14	0.21	43.7	17.6	1.00	E
			,.23	557	200	**'	5 1.0	55,	2,0	.,	210	0	150.0	2110	17.10	720	0.55	0.07		V.1 1	V.21	.5.,	1,.0	1.00	

	Mar-24	17°C	7.36	320	482	1.6	33.0	335	254	81	326	47.0	150.0	14×10 ²	11×10 ²	540	0.33	0.03	135.60	0.18	0.14	44.5	17.1	1.05	Е
П	Apr-24	22°C	7.51	346	520	1.4	34.0	357	271	86	350	48.0	160.0	17×10 ²	11×10 ²	540	0.29	0.13	140.63	0.23	0.42	43.7	16.6	1.00	Е
	May-24	27°C	7.67	362	545	1.0	36.0	372	279	93	366	50.0	170.0	1600	920	350	0.41	0.11	143.12	0.28	0.32	44.5	15.8	1.00	Е
	Jun-24	23°C	7.62	365	549	1.2	35.0	370	272	98	362	48.0	160.0	13×10 ²	920	540	0.40	0.10	140.92	0.30	0.28	40.1	14.9	0.90	Е
	Jul-24	23°C	7.25	280	422	1.2	35.0	310	243	67	290	48.0	160.0	22×10²	17×10²	920	0.37	0.11	130.85	0.28	0.25	39.3	22.5	0.97	E
	Aug-24	21°C	7.32	291	458	1.2	34.0	289	204	85	214	44.0	140.0	17×10²	11×10²	920	0.33	0.13	127.23	.23	.26	38.6	21.2	1.57	Е
	Sep-24	21°C	7.36	279	448	1.2	32.0	265	211	54	207	46.0	145	1700	1100	920	0.38	0.15	144.04	0.13	0.29	39.8	5.4	1.61	Е
	Oct-24	22°C	7.38	267	428	1.2	36.0	260	232	28	226	50.0	154.0	21×10 ²	17×10 ²	540	0.37	0.15	146.20	0.13	0.29	40.3	18.5	1.64	Е
													River Bindal B/C	to River Rispana a	t Mothorowala, De	hradun									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
49	Jan-24	16°C	7.40	338	507	2.0	30.0	349	288	61	308	28.0	110.0	22×10 ²	17×10 ²	920	0.33	0.13	120.11	0.21	0.29	20.2	6.6	0.47	E
	Feb-24	18°C	7.61	361	543	1.6	33.0	380	308	72	365	30.0	120.0	21×10 ²	11×10 ²	920	0.29	0.08	132.28	0.16	0.24	20.9	7.0	0.47	Е
П	Mar-24	17°C	7.50	341	513	1.8	32.0	355	277	78	346	29.0	110.0	21×10 ²	14×10 ²	920	0.35	0.03	140.78	0.19	0.16	22.1	7.6	0.51	Е
	Apr-24	21°C	7.65	370	556	1.6	33.0	378	296	82	372	30.0	120.0	21×10 ²	17×10 ²	920	0.38	0.16	145.79	0.23	0.28	21.5	7.1	0.48	Е
	May-24	29°C	7.85	389	585	1.2	35.0	395	308	87	391	32.0	130.0	17×10 ²	11×10 ²	920	0.48	0.12	147.83	0.31	0.31	22.7	7.6	0.50	Е
	Jun-24	22°C	7.80	386	581	1.4	40.0	390	300	90	385	30.0	120.0	17×10 ²	11×10 ²	920	0.46	0.09	65.53	0.27	0.26	20.6	7.2	0.45	Е
	Jul-24	22°C	7.63	295	443	1.4	33.0	322	251	71	267	30.0	110.0	21×10 ²	17×10²	920	0.40	0.12	136.69	0.26	0.26	24.6	7.1	0.59	Е
	Aug-24	21°C	7.17	285	437	1.2	32.0	294	193	101	219	32.0	120.0	17×10²	13×10 ²	920	0.35	0.1	138.22	.23	0.22	23.7	6.9	1.15	Е
	Sep-24	21°C	7.21	245	391	1.6	30.0	274	199	75	206	30.0	110.0	1600	920	540	0.47	0.15	110.02	0.17	0.30	22.5	4.8	1.09	Е
	Oct-24	21°C	7.26	248	392	1.4	34.0	249	229	20	194	30.0	104.0	21×10 ²	14×10 ²	430	0.48	0.15	112.74	0.17	0.30	27.4	9.4	1.33	Е
													Asan	Conservation Res	erve, Dehradun										
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
50	Jan-24	19°C	7.63	69	104	9.6	3.0	62	52	10	65	1.0	4.0	<1.8	<1.8	<1.8	0.15	0.05	45.16	0.13	0.17	2.6	2.3	0.14	A
Ш	Feb-24	13°C	7.79	76	115	9.4	4.0	67	59	08	70	1.0	4.0	<1.8	<1.8	<1.8	0.19	0.02	52.19	0.17	0.28	2.9	2.5	0.15	A
Ш	Mar-24	20°C	7.88	83	125	9.2	5.0	78	67	11	79	1.0	4.0	<1.8	<1.8	<1.8	0.20	0.05	60.44	0.13	0.23	3.2	2.7	0.16	A
	Apr-24	22°C	7.69	90	136	9.0	6.0	82	69	13	80	1.0	4.0	<1.8	<1.8	<1.8	0.27	0.11	68.74	0.22	0.34	3.0	2.3	0.14	A
	May-24	19°C	7.55	79	120	8.8	7.0	73	58	15	71	1.0	4.0	<1.8	<1.8	<1.8	0.18	0.09	67.53	0.27	0.28	3.4	2.5	0.17	A
Ш	Jun-24	18°C	7.66	76	115	8.6	7.0	78	62	16	77	1.0	4.0	<1.8	<1.8	<1.8	0.17	0.10	65.92	0.28	0.29	3.7	2.8	0.18	A
Ш	Jul-24	19°C	7.37	86	126	8.8	5.0	60	43	17	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.15	0.09	70.58	0.23	0.32	3.3	2.5	0.18	A
Ш	Aug-24	17°C	7.63	82	95	9	7	72	48	24	69	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.20	0.10	75.16	0.21	0.30	3.2	2.4	0.13	A
Щ	Sep-24	22°C	7.69	74	119	9.1	7.0	69	49	20	52	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.25	0.03	36.19	0.08	0.17	3.1	2.7	0.12	A
	Oct-24	20°C	8.17	75	117	9	8	96	70	26	69	BDL (<1)	BDL (<5)	<1.8	<1.8	<1.8	0.25	0.03	34.88	0.08	0.17	3.6	2.9	0.14	A
												F	River Ganga cana	l D/S at Har ki Pau	ri, Rishikul Bridge, I	Haridwar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
51	Jan-24	15°C	8.30	149	234	9.1	10.0	129	60	69	118	1.4	8.0	110	79	14	0.35	0.12	26.29	0.19	0.35	3.5	1.6	0.13	В

	Feb-24	17.1°C	8.00	120	187.5	9.6	7.0	134	55	79	110	1.2	7.0	170	94	11	0.6	0.14	25.28	0.2	0.3	3.7	5.4	0.14	В
П	Mar-24	18.5°C	7.60	193	302	8.6	7.0	114	55	59	118	1.2	6.0	150	70	9.3	0.51	0.13	35.68	0.49	0.48	7.7	5.9	0.31	В
	Apr-24	20.9°C	7.50	180	281.25	9	9.0	120	50	70	149	2	10.0	130	79	6.8	0.45	0.11	29.37	0.16	0.38	16.5	5.9	0.65	В
	May-24	21.9°C	7.40	162	254	8.4	8.0	111	52	59	132	1.6	12.0	120	94	4.5	0.46	0.28	33.31	0.66	0.68	11.5	7.9	0.47	В
П	Jun-24	21.8°C	7.08	140	218.75	8	8.0	114	26	88	75	2	11.0	120	94	9.2	0.6	0.14	25.73	0.57	0.37	10.9	5.6	0.44	В
П	Jul-24	21.5°C	7.41	243	379.688	7.4	4.0	113	51	62	126	2.2	10.0	120	94	9.2	0.56	0.24	34.69	0.77	0.77	12.9	9.2	0.52	В
	Aug-24	22°C	7.09	154.8	242	7.9	9	110	40	70	114	2.4	10	150	94	6.8	0.5	0.32	29.47	0.64	0.61	11.8	6.9	0.49	В
	Sep-24	20.6°C	7.26	207.3	324	8.8	15	88	42	46	80	1.2	7	170	79	7.8	0.22	0.01	19.4	0.21	0.62	3.1	1.8	0.14	В
	Oct-24	23.5°C	7.5	117	182.3	8.4	10	125	50	75	140	1.2	7	140	94	6.1	0.7	0.14	20.55	0.2	0.38	3.6	5.7	0.14	В
													Rive	er Ganga at Har Ki I	Pouri, Haridwar										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
52	Jan-24	15.9°C	7.9	182	285	9.6	7.0	110	49	61	107	1.2	6.0	120	70	9.2	0.49	0.15	30.29	0.29	0.48	3.3	1.7	0.14	В
	Feb-24	16.5°C	8.20	150	234.375	9.8	6.0	112	40	72	105	1.0	7.0	110	79	14	0.45	0.15	21.32	0.17	0.50	3.7	2.21	0.15	В
	Mar-24	19.2°C	7.70	192	301	8.8	5.0	109	45	64	120	1.2	7.0	120	94	11	0.45	0.13	31.39	0.47	0.55	6.7	4.9	0.28	В
	Apr-24	22°C	8.10	110	171.875	9.1	7.0	118	49	69	132	1	6.0	110	70	7.8	0.35	0.13	20.16	0.15	0.55	4.2	2.2	0.17	В
	May-24	21.4°C	7.30	169	264	8.6	6.0	112	49	63	128	1.4	8.0	150	94	7.8	0.38	0.23	32.38	0.55	0.68	8.7	5.2	0.36	В
	Jun-24	23°C	7.05	210	328.125	7.2	7.0	112	31	81	70	2.2	10.0	140	94	14	0.42	0.15	25.81	0.54	0.52	7.8	3.22	0.32	В
	Jul-24	21.7°C	7.46	243	379.688	7.6	4.0	108	53	55	110	2.4	10.0	140	94	14	0.49	0.25	39.66	0.74	0.62	13	7.6	0.54	В
	Aug-24	21°C	7.23	193.2	302	7.7	8	116	40	76	104	2	9	120	94	6.1	0.48	0.24	30.26	0.58	0.55	8.9	3.8	0.36	В
	Sep-24	21°C	7.31	150	235	8.1	10	89	43	46	70	1.6	8	130	79	6.8	0.19	0.03	18.7	0.41	0.18	2.2	2.3	0.1	В
	Oct-24	23.8°C	8.1	103	161.1	8.3	5	110	50	60	121	1	6	150	94	7.8	0.45	0.16	20.5	0.45	0.4	3.2	4.2	0.13	В
													River Gang	a D/S at Bisanpur I	Cundi Village, Harid	war	_								
S.No.	Month	Temp	рН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
53	Jan-24	23.2°C	7.60	192	301	8.8	8.0	118	57	61	104	1.6	9.0	130	79	9.2	0.39	0.16	34.59	0.34	0.56	4.7	2.1	0.19	В
	Feb-24	18°C	7.50	170	265.625	9	8.0	130	49	81	100	1.4	10.0	120	94	11	0.45	0.11	32.12	0.45	0.66	4.19	4.1	0.16	В
	Mar-24	19.6°C	7.80	201	315	8.8	7.0	119	52	67	129	1.6	10.0	110	79	14	0.55	0.16	33.72	0.65	0.64	9.2	6.9	0.37	В
	Apr-24	22°C	7.60	200	312.5	8.6	9.0	116	50	66	127	2	12.0	120	94	11	0.55	0.19	30.14	0.44	0.53	47.0	19.0	1.89	В
	May-24	21.6°C	7.40	179	280	8.2	10.0	115	50	65	137	2.2	14.0	110	79	6.8	0.56	0.34	32.22	0.64	0.63	12.9	9.9	0.52	В
	Jun-24	22.6°C	6.96	150	234.375	7.4	10.0	134	46	88	94	2.2	12.0	110	79	14	0.45	0.18	36.35	0.58	0.65	13.1	4.4	0.49	В
	Jul-24	22.6	7.62	245	384	7.6	5.0	127	59	68	133	2.4	14.0	110	79	14	0.49	0.28	36.45	0.68	0.75	10.9	7.6	0.41	В
	Aug-24	23°C	7.13	168.9	264	7.5	11	126	42	84	112	2.4	14	130	79	6.1	0.56	0.34	30.14	0.57	0.53	12.3	7.1	0.48	В
Щ	Sep-24	20.3°C	7.39	148	231	7.8	8.2	93	43	50	88	1.8	9	170	110	7.8	0.64	0.09	23.4	0.43	0.7	6	3.2	0.27	В
	Oct-24	25°C	7.6	195	304	8.2	10	120	54	66	130	1.4	11	210	79	9.2	0.4	0.2	30.17	0.4	0.78	4.8	4.5	0.19	В
							•						River Gar	nga Canal at Lal Ta	Rao Bridge, Haridw	ar	_								
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria

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Mathematical Region Mathematical Region	54	Jan-24	15.7°C	8.3	227	355	9.1	9.0	105	45	60	97	1.2	8.0	120	70	9.2	0.4	0.09	25.38	0.34	0.56	3.5	1.6	0.15	В
Part		Feb-24	17°C	7.90	210	328.125	9.6	9.0	108	40	68	90	1.4	9.0	130	79	7.8	0.49	0.13	24.56	0.3	0.45	3.6	3.1	0.15	В
March Marc		Mar-24	18.8°C	7.40	197	309	8.8	6.0	112	54	58	122	1.4	7.0	170	94	9.2	0.49	0.12	34.56	0.42	0.54	6.9	5.1	0.28	В
		Apr-24	21.6°C	7.20	110	171.875	8.9	9.0	112	50	62	136	1.8	9.0	140	79	11	0.56	0.15	35.67	0.33	0.42	5.3	3.8	0.22	В
March Marc		May-24	21.6°C	7.20	163	255	8.2	8.0	112	51	61	130	1.4	9.0	120	94	12	0.46	0.29	33.97	0.53	0.62	8.9	5.8	0.36	В
March Marc		Jun-24	22.5°C	7.02	200	312.5	7.4	8.0	110	28	82	80	2.2	9.0	130	79	12	0.49	0.1	24.26	0.59	0.45	8.8	3.1	0.36	В
March Marc		Jul-24	21.6°C	7.45	243	381	7.6	5.0	112	54	58	122	2.4	11.0	130	79	12	0.51	0.23	35.96	0.69	0.75	13.7	9.1	0.56	В
Mathematical Region Mathematical Region		Aug-24	21°C	7.19	188.8	295	7.9	7	111	49	62	110	2	10	110	70	6.8	0.46	0.22	28.67	0.55	0.52	7.9	4.1	0.33	В
Final Content		Sep-24	20.1°C	7.26	101.76	159	8.2	5	80	38	42	73	1.6	5	130	79	6.1	0.28	0.04	19.5	0.18	0.48	2.7	4.2	0.13	В
Marcha M		Oct-24	23°C	7.6	115	179.4	8.8	10	140	65	75	120	1.6	9	140	110	6.8	0.42	0.15	20.64	0.25	0.32	3.1	3.6	0.11	В
See See														River	Ganga Canal at Da	mkothi, Haridwar										
Part	S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
Mar-14 M	55	Jan-24	16.1°C	8.10	192	301	8.8	8.0	118	52	66	110	1.2	7.0	94	63	6.1	0.36	0.12	26.87	0.21	0.49	3.3	1.4	0.13	В
May 1 May 2 May 3 May 3 May 3 May 3 May 3 May 3 May 4 May		Feb-24	16.9°C	7.80	200	312.5	9.4	9.0	110	50	60	100	1.2	8.0	94	70	4.0	0.52	0.14	23.37	0.15	0.41	3.3	5.2	0.14	В
May 1 May 2 May 3 May		Mar-24	19°C	7.80	195	306	8.4	6.0	110	52	58	98	1.4	8.0	84	63	4.0	0.44	0.14	33.39	0.45	0.51	7.3	5.5	0.3	В
		Apr-24	21.3°C	7.50	120	187.5	8.8	9.0	116	49	67	134	1.2	9.0	94	70	6.8	0.22	0.14	20.61	0.18	0.41	12.9	4.7	0.52	В
		May-24	21.6°C	7.40	161	253	8.2	7.0	116	52	64	139	1.4	10.0	110	79	6.1	0.45	0.24	31.47	0.58	0.65	9.2	6.7	0.37	В
Region R		Jun-24	22.3°C	7.05	190	296.875	7.6	9.0	110	20	90	85	2.2	9.6	94	70	9.2	0.55	0.16	22.41	0.64	0.42	9.3	4.2	0.38	В
Septe 1980		Jul-24	20.9°C	7.16	242	379	7.4	5.0	110	49	61	126	2.2	12.0	130	79	12	0.56	0.26	34.91	0.74	0.72	14.1	9	0.58	В
No. 1		Aug-24	22°C	7.11	180.4	282	7.8	7	114	38	76	106	2	11	170	84	9.2	0.52	0.28	24.61	0.62	0.59	9.8	5.7	0.4	В
State Stat		Sep-24	19.8°C	7.2	176.64	276	8.3	8	88	43	45	56	1.1	8	120	94	9.3	0.16	0.02	15.9	0.25	0.31	2.6	2.3	0.12	В
Since Sinc		Oct-24	24°C	7.5	131	205	8.2	9	145	69	76	125	2	11	140	79	6.8	0.9	0.16	22.48	0.16	0.44	3.4	5.3	0.12	В
Since Northole N														River Ganga	a U/S at Bindughat	Dudhiyaban, Hario	lwar									
Feb-24 16.2°C 7.70 170 265.625 9.2 7.0 114 45 69 90 1.2 8.0 140 70 6.8 0.4 0.15 22.65 0.18 0.6 3.1 1.15 0.13 B Mar-24 18.9°C 7.90 198 310 8.6 6.0 110 50 60 102 1.4 8.0 110 79 6.1 0.54 0.11 33.65 0.49 0.66 8.4 5.6 0.35 B Apr-24 23.5°C 7.90 150 234.375 8.8 8.0 110 42 68 120 1.2 8.0 120 140 79 12 0.32 0.22 33.59 0.53 0.61 9.8 5.5 0.39 B May-24 22.4°C 7.40 167 259 8.4 7.0 116 50 66 132 1.8 10.0 140 79 12 0.32 0.22 33.59 0.53 0.61 9.8 5.5 0.39 B Jun-24 23.9°C 7.3 240 375 7.6 8.0 120 43 77 124 2.4 10.4 140 94 9.2 0.4 0.2 31.62 0.44 0.48 9.6 5.1 0.38 B Jul-24 23.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Aug-24 23°C 7.28 20.6 32.6 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 0.45 0.28 0.45 0.28 0.46 0.56 3.4 7.1 0.14 B	S.No.	Month	Temp	рН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)		Hardness (mg/l)		Magnesium (mg/l)		BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	Nitrite-N (mg/l)		Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
Mar-24 18.9°C 7.90 198 310 8.6 6.0 110 50 60 102 1.4 8.0 110 79 6.1 0.54 0.11 33.65 0.49 0.66 8.4 5.6 0.35 B Apr-24 23.5°C 7.90 150 234.375 8.8 8.0 110 42 68 120 1.2 8.0 120 94 9.2 0.2 0.1 23.89 0.23 0.71 3.8 2.5 0.16 B May-24 22.4°C 7.40 167 259 8.4 7.0 116 50 66 132 1.8 10.0 140 79 12 0.32 0.2 33.59 0.53 0.61 9.8 5.5 0.39 B Jun-24 23.9°C 7.3 240 375 7.6 8.0 120 43 77 124 2.4 10.4 140 94 9.2 0.4 0.2 31.62 0.44 0.48 9.6 5.1 0.38 B Jul-24 22.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Aug-24 23°C 7.28 20.6 326 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.45 0.23 32.89 0.48 0.56 8.7 4.9 0.34 B Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 2.2 0.48 0.56 3.4 7.1 0.14 B	56	Jan-24	15.3°C	8.20	124	194	8.7	7.0	102	48	54	92	1.4	8.0	110	79	9.3	0.35	0.12	24.48	0.34	0.56	3.9	1.9	0.17	В
Apr-24 23.5°C 7.90 150 234.375 8.8 8.0 110 42 68 120 1.2 8.0 120 94 9.2 0.2 0.12 23.89 0.23 0.71 3.8 2.5 0.16 B May-24 22.4°C 7.40 167 259 8.4 7.0 116 50 66 132 1.8 10.0 140 79 12 0.32 0.22 33.59 0.53 0.61 9.8 5.5 0.39 B Jul-24 23.9°C 7.3 240 375 7.6 8.0 120 43 77 124 2.4 10.4 140 94 9.2 0.4 0.2 31.62 0.44 0.48 9.6 5.1 0.38 B Jul-24 22.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.		Feb-24	16.2°C	7.70	170	265.625	9.2	7.0	114	45	69	90	1.2	8.0	140	70	6.8	0.4	0.15	22.65	0.18	0.6	3.1	1.15	0.13	В
May-24 22.4°C 7.40 167 259 8.4 7.0 116 50 66 132 1.8 10.0 140 79 12 0.32 0.22 33.59 0.53 0.61 9.8 5.5 0.39 B Jun-24 23.9°C 7.3 240 375 7.6 8.0 120 43 77 124 2.4 10.4 140 94 9.2 0.4 0.2 31.62 0.44 0.48 9.6 5.1 0.38 B Jul-24 22.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Aug-24 23°C 7.28 208.6 326 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.45 0.23 <th></th> <th>Mar-24</th> <th>18.9°C</th> <th>7.90</th> <th>198</th> <th>310</th> <th>8.6</th> <th>6.0</th> <th>110</th> <th>50</th> <th>60</th> <th>102</th> <th>1.4</th> <th>8.0</th> <th>110</th> <th>79</th> <th>6.1</th> <th>0.54</th> <th>0.11</th> <th>33.65</th> <th>0.49</th> <th>0.66</th> <th>8.4</th> <th>5.6</th> <th>0.35</th> <th>В</th>		Mar-24	18.9°C	7.90	198	310	8.6	6.0	110	50	60	102	1.4	8.0	110	79	6.1	0.54	0.11	33.65	0.49	0.66	8.4	5.6	0.35	В
Jun-24 23.9°C 7.3 240 375 7.6 8.0 120 43 77 124 2.4 10.4 140 94 9.2 0.4 0.2 31.62 0.44 0.48 9.6 5.1 0.38 B Jul-24 22.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Aug-24 23°C 7.28 208.6 326 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.45 0.23 32.89 0.48 0.56 8.7 4.9 0.34 B Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 42.69 1.42 0.44 6.4 7.2 0.28 B Oct-24 23°C 7.9 121 189 8 8 115 55 60 120 1 7 170 110 7.8 0.78 0.78 0.2 22.2 0.48 0.56 3.4 7.1 0.14 B		Apr-24	23.5°C	7.90	150	234.375	8.8	8.0	110	42	68	120	1.2	8.0	120	94	9.2	0.2	0.12	23.89	0.23	0.71	3.8	2.5	0.16	В
Jul-24 22.6°C 7.29 248 389 7.4 5.0 110 50 60 121 2.6 12 140 94 9.2 0.56 0.29 38.12 0.79 0.68 12.9 8.8 0.53 B Aug-24 23°C 7.28 208.6 326 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.45 0.23 32.89 0.48 0.56 8.7 4.9 0.34 B Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 42.69 1.42 0.44 6.4 7.2 0.28 B Oct-24 23°C 7.9 121 189 8 115 55 60 120 1 7 170 110 7.8 0.78 0.2 22.2		May-24	22.4°C	7.40	167	259	8.4	7.0	116	50	66	132	1.8	10.0	140	79	12	0.32	0.22	33.59	0.53	0.61	9.8	5.5	0.39	В
Aug-24 23°C 7.28 208.6 326 7.8 8 122 48 74 128 2.2 9 140 94 9.2 0.45 0.23 32.89 0.48 0.56 8.7 4.9 0.34 B Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 42.69 1.42 0.44 6.4 7.2 0.28 B Oct-24 23°C 7.9 121 189 8 8 115 55 60 120 1 7 170 110 7.8 0.78 0.2 22.2 0.48 0.56 3.4 7.1 0.14 B		Jun-24	23.9°C	7.3	240	375	7.6	8.0	120	43	77	124	2.4	10.4	140	94	9.2	0.4	0.2	31.62	0.44	0.48	9.6	5.1	0.38	В
Sep-24 21.6°C 7.21 235 368 7.8 10 96 45 51 185 2.6 10 140 79 6.8 0.45 0.28 42.69 1.42 0.44 6.4 7.2 0.28 B Oct-24 23°C 7.9 121 189 8 8 115 55 60 120 1 7 170 110 7.8 0.78 0.2 22.2 0.48 0.56 3.4 7.1 0.14 B		Jul-24	22.6°C	7.29	248	389	7.4	5.0	110	50	60	121	2.6	12	140	94	9.2	0.56	0.29	38.12	0.79	0.68	12.9	8.8	0.53	В
Oct-24 23°C 7.9 121 189 8 8 115 55 60 120 1 7 170 110 7.8 0.78 0.2 22.2 0.48 0.56 3.4 7.1 0.14 B		Aug-24	23°C	7.28	208.6	326	7.8	8	122	48	74	128	2.2	9	140	94	9.2	0.45	0.23	32.89	0.48	0.56	8.7	4.9	0.34	В
		Sep-24	21.6°C	7.21	235	368	7.8	10	96	45	51	185	2.6	10	140	79	6.8	0.45	0.28	42.69	1.42	0.44	6.4	7.2	0.28	В
River Ganga D/S at Balkumari Mandir, Ajeetpur, Haridwar		Oct-24	23°C	7.9	121	189	8	8	115	55	60	120	1	7	170	110	7.8	0.78	0.2	22.2	0.48	0.56	3.4	7.1	0.14	В
														River Ganga D)/S at Balkumari M	andir, Ajeetpur, Ha	ridwar									

S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
57	Jan-24	29.9°C	7.50	190	297	9.51	10.0	122	57	65	109	1.2	8.0	120	94	9.2	0.44	0.19	28.79	0.51	0.49	4.7	2.2	0.18	В
	Feb-24	18.1°C	7.60	180	281.25	9.6	10.0	125	45	80	95	1.4	9.0	110	70	9.2	0.2	0.18	24.67	0.5	0.45	5.3	4.7	0.21	В
	Mar-24	19.8°C	7.90	204	320	8.8	8.0	121	60	61	119	1.6	9.0	120	94	9.3	0.52	0.14	34.66	0.59	0.55	9.6	6.4	0.38	В
	Apr-24	22.8°C	7.80	190	296.875	8.8	10.0	108	48	60	119	2.2	12.0	140	70	7.8	0.5	0.15	39.18	0.46	0.41	39.4	11.4	1.64	В
	May-24	21.1°C	7.30	177	277	8.4	9.0	119	56	63	141	2.2	14.0	130	79	6.8	0.54	0.35	35.28	0.66	0.64	12	9.8	0.48	В
	Jun-24	22°C	7.04	140	218.75	7.2	11.0	130	52	78	125	2.4	14.0	170	110	9.2	0.28	0.2	24.67	0.51	0.44	10	4.7	0.38	В
	Jul-24	22.9°C	7.78	247	385.938	7.8	6.0	129	60	69	135	2.6	16.0	170	110	9.2	0.48	0.22	35.66	0.71	0.64	11.6	8	0.44	В
	Aug-24	23°C	7.15	152.3	238	7.6	12	120	46	74	136	2.2	12	130	79	6.8	0.38	0.16	37.38	0.66	0.63	10.4	4.4	0.41	В
	Sep-24	19.5°C	7.41	129.28	202	8	10	90	41	49	68	1.1	6	120	94	6.1	0.22	0.05	18.3	0.12	0.43	2.6	4.5	0.12	В
	Oct-24	25.2°C	7.8	218	341	8.3	12	110	52	58	145	2.2	9	170	110	6.8	0.3	0.23	23.63	0.36	0.43	5.6	4.9	0.23	В
													Upper Gang	a Canal D/S at Roc	orkee, Haridwar Dis	trict									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
58	Jan-24	15.3°C	7.60	167	261	8.7	7.0	138	68	70	125	1.4	12.0	120	84	14	0.37	0.2	38.91	0.41	0.56	3.4	1.7	0.13	В
	Feb-24	16°C	7.20	150	230	8.8	9.0	135	55	80	105	1.6	14.0	110	79	11	0.98	0.2	30.76	0.31	0.43	3.5	7.19	0.13	В
	Mar-24	17.1°C	7.90	198	310	8.6	8.0	125	60	65	137	1.8	12.0	120	94	14	0.68	0.19	37.66	0.61	0.63	8.9	7.5	0.34	В
	Apr-24	19.9°C	8.40	120	187.5	8.4	10.0	125	52	73	142	2.2	12.0	150	84	11	0.53	0.2	32.59	0.38	0.47	36.0	9.9	1.39	В
	May-24	21.4°C	7.40	169	265	8	9.0	120	52	68	151	2.4	16.0	170	94	9.2	0.53	0.32	34.99	0.68	0.67	20	11.9	0.79	В
	Jun-24	21.5°C	7.12	180	281.25	7.6	12.0	140	55	85	143	2.4	14.0	140	110	14	0.88	0.22	31.58	0.54	0.46	22.6	6.8	0.83	В
	Jul-24	22°C	7.21	248	387.5	7.6	7.0	131	60	71	140	2.6	16.0	140	110	14	0.48	0.29	39.63	0.74	0.76	13	8	0.49	В
	Aug-24	21°C	7.19	180.4	282	7.7	11	132	48	84	148	2.1	12	150	120	12	0.64	0.36	32.39	0.53	0.5	19.8	10.2	0.75	В
	Sep-24	20°C	7.41	217.6	340	7.6	10	98	48	50	69	2.4	10	170	120	9.3	0.68	0.21	28.71	0.26	0.48	3.9	2.1	0.17	В
	Oct-24	23.7°C	8.1	145	226	8.9	10	125	60	65	130	1.2	10	140	110	7.8	0.75	0.21	32	0.32	0.45	25.7	12.4	1	В
													River Bang	ganga D/S at Laksa	r before entering U	.P									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
59	Jan-24	17.9°C	7.70	474	742	5.1	11.0	196	89	107	170	1.6	16.0	170	120	11	0.55	0.2	36.78	0.49	0.39	23	5.9	0.71	В
	Feb-24	18.8°C	7.60	340	531.25	6.8	12.0	220	95	125	185	1.8	16.0	150	94	9.3	0.94	0.88	35.71	0.23	0.41	27.5	6.7	0.8	В
	Mar-24	18.9°C	7.50	355	556	5.8	10.0	209	116	93	216	1.8	12.0	130	79	11	0.64	0.48	36.21	0.53	0.58	17.8	7.5	0.53	В
	Apr-24	24°C	7.60	150	234.375	5.6	12.0	138	58	80	168	1.4	8.0	140	94	9.2	0.39	0.22	38.19	0.24	0.43	12.9	5.2	0.48	В
	May-24	24°C	7.40	151	236	6	11.0	127	55	72	161	2	14.0	120	94	6.1	0.49	0.32	40.19	0.54	0.63	16.9	9.2	0.65	В
	Jun-24	24.2°C	7.28	230	359.375	5.6	12.0	200	97	103	140	2.8	16.0	170	94	12	0.41	0.29	34.16	0.66	0.42	13.4	6.7	0.41	В
	Jul-24	21.8°C	7.64	249	390	5.2	8.0	180	89	91	191	2.6	18.0	170	94	12	0.55	0.39	37.55	0.66	0.72	18.6	12.5	0.6	В
	Aug-24	25°C	7.26	193.2	302	5.9	11	142	50	92	154	2.2	16	150	94	7.8	0.62	0.33	36.28	0.63	0.62	12.7	5.1	0.46	В
	Sep-24	21°C	7.49	386	603	8.1	12	91	42	49	154	1.6	12	170	110	9.3	0.39	0.21	33.91	1.2	0.44	33.3	7.5	1.58	В

	Oct-24	23.5°C	7.6	267	373	8.1	10	170	56	114	165	1.8	12	210	170	11	0.97	0.22	30.22	0.33	0.58	26.2	5.8	0.87	В
		-0.0			0,0	V								Ganga D/S at Sult			***								
	1						Chloride	1 1	Calcium		Alkalinity				· ·	Fecal Steptococcss	I	1	Sulphate	<u> </u>		T	<u> </u>		Designated Best use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	(MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality Criteria
60	Jan-24	24.1°C	7.80	320	501	8.12	7.0	132	62	70	112	1.4	10.0	110	79	14	0.39	0.23	30.12	0.44	0.39	4.7	2.2	0.18	В
	Feb-24	18.5°C	7.70	250	390.625	8.5	8.0	140	65	75	105	1.6	12.0	170	94	11	0.28	0.12	30.06	0.43	0.36	7.1	3.3	0.26	В
	Mar-24	18.7°C	7.90	205	321	8.6	6.0	122	59	63	135	1.4	7.0	120	94	14	0.48	0.13	36.16	0.53	0.56	8.2	6.7	0.32	В
	Apr-24	23°C	7.40	170	265.625	8.8	6.0	119	50	69	167	1.8	10.0	130	79	11	0.25	0.19	33.28	0.45	0.31	29.5	9.1	1.17	В
	May-24	21.4°C	7.20	176	275	8.2	8.0	121	56	65	148	2	10.0	120	94	9.2	0.35	0.29	34.22	0.65	0.65	13.8	9.8	0.54	В
	Jun-24	23.6°C	7.22	160	250	7.2	9.0	130	60	70	75	2.4	11.0	130	79	14	0.3	0.25	37.59	0.45	0.37	17.2	5.3	0.65	В
	Jul-24	21.8°C	7.49	243	380	7.6	5.0	122	56	66	129	2.6	14.0	130	79	14	0.5	0.28	38.71	0.65	0.67	14	8.9	0.55	В
	Aug-24	23°C	7.25	169.6	265	7.6	10	120	50	70	132	2.6	12	130	79	9.2	0.36	0.21	34.29	0.49	0.48	15.5	6.4	0.62	В
	Sep-24	20°C	7.4	129.28	202	8.4	8	82	37	45	112	1.4	7	140	79	6.8	0.29	0.07	18.7	0.78	0.45	3	2.7	0.14	В
	Oct-24	25°C	7.4	207	324	8.6	10	165	79	86	140	1.9	9	170	110	9.3	0.5	0.18	22.3	0.42	0.36	6.8	3.4	0.23	В
													River	Nayar D/S at Satp	uli , Pauri Garhwal		-								
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
61	Jan-24	12°C	8.20	68	103	10.6	4.0	71	57	14	69	1.0	4.0	47	40	4.0	0.05	0.02	19.86	0.15	0.19	2.9	2.6	0.15	Criteria A
\vdash	Feb-24	13°C	7.96	61	94	10.4	5.0	65	50	15	63	1.0	4.0	48	41	4.0	0.06	0.01	22.40	0.21	0.25	3.1	2.8	0.17	A
	Mar-24	16°C	7.78	68	103	10.2	6.0	70	56	14	66	1.0	4.0	47	40	6.1	0.09	0.03	24.66	0.16	0.20	3.3	2.9	0.17	A
	Apr-24	20°C	7.58	73	111	10.0	6.0	75	64	11	71	1.0	4.0	48	41	7.8	0.14	0.01	20.78	0.20	0.28	3.1	2.5	0.16	A
	May-24	24°C	7.69	79	120	9.8	7.0	82	69	13	77	1.0	4.0	47	40	6.8	0.09	0.03	22.42	0.25	0.33	3.5	2.9	0.17	A
	Jun-24	26°C	7.57	74	114	10.0	7.0	80	72	08	78	1.0	4.0	46	33	6.8	0.12	0.04	31.67	0.20	0.29	3.4	2.6	0.16	A
	Jul-24	23°C	7.82	90	137	9.8	7.0	94	82	12	88	BDL (<1)	BDL (<5)	48	41	9.3	0.11	0.05	25.62	0.23	0.29	4	3.5	0.18	A
	Aug-24	24°C	7.57	81	128	9.4	6	91	61	30	84	BDL (<1)	BDL (<5)	47	40	6.8	0.10	0.06	25.6	0.21	0.30	3.9	3.3	0.12	A
	Sep-24	24°C	7.54	76	122	9.4	6.0	88	67	21	78	BDL (<1)	BDL (<5)	48	41	6.1	0.03	0.01	20.98	0.19	0.13	3.9	3.2	0.12	A
	Oct-24	21°C	7.53	79	127	9.6	6	89	60	29	79	BDL (<1)	BDL (<5)	48	41	7.8	0.03	0.01	21.72	0.19	0.13	3.5	3.4	0.1	A
													River I	Nayar U/S at Satp	uli , Pauri Garhwal										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
62	Jan-24	11°C	8.11	61	93	10.8	3.0	65	53	12	63	1.0	4.0	41	34	2.0	0.06	0.03	20.60	0.13	0.18	2.6	2.2	0.14	A
	Feb-24	13°C	7.89	55	84	10.6	4.0	61	47	14	59	1.0	4.0	46	33	2.0	0.09	0.02	25.96	0.18	0.16	2.9	2.4	0.16	A
	Mar-24	15°C	7.67	60	91	10.4	5.0	64	52	12	62	1.0	4.0	41	34	2.0	0.06	0.01	22.96	0.13	0.19	3.1	2.6	0.17	A
	Apr-24	19°C	7.49	67	101	10.2	6.0	70	60	10	69	1.0	4.0	38	32	2.0	0.09	0.03	22.43	0.16	0.22	2.9	2.3	0.15	A
	May-24	24°C	7.61	72	109	10.0	6.0	76	64	12	74	1.0	4.0	40	33	2.0	0.11	0.05	30.15	0.20	0.28	3.2	2.7	0.16	A
	Jun-24	25°C	7.62	83	126	10.2	6.0	86	77	09	82	1.0	4.0	40	34	4.0	0.08	0.03	21.97	0.24	0.33	3.7	3.1	0.17	A
	Jul-24	22°C	7.75	87	132	10	7.0	90	79	11	86	BDL (<1)	BDL (<5)	41	34	6.8	0.13	0.06	33.16	0.18	0.3	3.9	3.3	0.18	A
_	Aug-24	23°C	7.56	74	123	9.8	6	86	56	30	83	BDL (<1)	BDL (<5)	47	39	6.1	0.15	0.05	32.16	0.20	0.34	3.7	3.4	0.1	A
	Sep-24	23°C	7.43	70	115	9.6	5.0	86	66	20	79	BDL (<1)	BDL (<5)	40	34	4.5	0.08	0.03	22.87	0.17	0.17	3.8	3.1	0.1	A

	Oct-24	20°C	7.43	68	113	9.8	5	82	58	24	74	BDL (<1)	BDL (<5)	40	34	4.5	0.08	0.03	23.16	0.17	0.17	3.4	3.2	0.09	A
													Nai	nital Lake Water II	ntake, Nainital										
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
63	Jan-24	12°C	7.59	256	430	9.0	13.0	256	140	116	202	2.2	6.0	120	94	2.0	0.15	0.05	52.10	0.25	0.20	8.3	2.9	0.22	В
	Feb-24	13°C	7.73	322	480	8.6	15.0	248	134	114	236	2.0	6.0	110	79	2.0	0.18	0.03	56.41	0.20	0.24	7.9	2.7	0.22	В
Щ	Mar-24	15°C	7.89	310	460	8.4	19.0	252	130	122	218	1.4	5.0	150	94	2.0	0.13	0.04	52.63	0.18	0.36	7.4	2.9	0.20	В
Щ	Apr-24	16°C	7.81	302	440	8.0	11.0	256	138	118	224	2.2	6.0	120	70	2.0	0.18	0.06	55.13	0.21	0.31	7.1	3.0	0.19	В
	May-24	17°C	7.63	311	460	7.8	15.0	258	144	114	236	2.0	6.0	110	79	2.0	0.22	0.08	58.42	0.18	0.25	6.8	2.8	0.18	В
Щ	Jun-24	18°C	7.38	324	480	7.4	17.0	252	140	112	220	2.2	6.0	170	110	6.8	0.22	0.07	56.92	0.18	0.24	6.7	2.6	0.18	В
	Jul-24	16°C	7.27	309	460	7.2	15.0	234	128	106	208	2.0	5.0	170	110	6.8	0.25	0.11	55.63	0.22	0.22	11.3	8.6	0.15	В
	Aug-24	16°C	7.48	283	420	7.8	17	232	124	108	212	1.6	5	140	110	6.1	0.28	0.14	51.26	0.20	0.21	10.1	8.3	0.29	В
	Sep-24	15°C	7.53	290	430	8.2	13	242	130	112	204	1.4	5	150	94	6.1	0.11	0.02	45.12	0.15	0.20	10.3	7.9	0.29	В
	Oct-24	15°C	7.36	305	450	8.2	15	244	134	110	212	2	6	110	79	4.5	0.11	0.02	43.85	0.16	0.20	10.0	7.2	0.28	В
<u> </u>													Bhe	emtal Lake Water	Intake, Nainital										Designated best UNP
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
64	Jan-24	14°C	7.35	143	210	8.6	15.0	206	108	98	176	1.8	6.0	110	79	2.0	0.11	0.06	32.10	0.21	0.18	5.7	2.6	0.17	В
	Feb-24	15°C	7.22	166	240	8.4	11.0	188	102	86	162	1.2	5.0	120	94	2.0	0.13	0.04	36.74	0.18	0.22	5.2	2.2	0.16	В
Щ	Mar-24	17°C	7.58	149	220	8.2	13.0	172	98	74	148	1.8	5.0	130	79	4.0	0.16	0.05	40.20	0.22	0.28	4.9	2.0	0.16	В
	Apr-24	18°C	7.40	149	210	7.6	17.0	194	108	86	156	2.0	5.0	150	94	4.5	0.20	0.09	43.63	0.25	0.22	4.5	1.8	0.14	В
	May-24 Jun-24	19°C	7.59 7.47	153 157	220	7.6 7.4	11.0 14.0	206	112 114	94 88	180	1.6	5.0	140	79 94	4.0	0.26	0.11	45.63 50.94	0.21	0.28	4.2	2.0	0.13	В
Н	Jul-24 Jul-24	19°C	7.47	149	210	7.4	13.0	172	94	78	144	1.4	3.0	130	79	6.1	0.22	0.08	48.16	0.18	0.23	10.2	4.1	0.12	В
Н	Aug-24	17°C	7.25	133	190	7.8	15.0	180	98	82	158	1.2	4	120	94	6.8	0.30	0.12	50.1	0.18	0.20	8.7	3.5	0.40	В
Н	Sep-24	16°C	7.47	145	210	8.2	15	192	104	88	166	1.6	5	140	110	7.8	0.09	0.03	30.02	0.16	0.18	8.5	3.8	0.39	В
	Oct-24	16°C	7.54	151	220	8	16	202	108	94	166	1.4	5	170	110	7.8	0.09	0.03	31.38	0.16	0.18	8.1	3.4	0.37	В
													G	ola River at Haldw	ani, Nainital					<u> </u>					
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
65	Jan-24	17°C	7.92	189	280	8.2	25.0	220	118	102	186	2.4	6.0	110	70	4.0	0.15	0.08	28.60	0.20	0.15	4.0	3.1	0.12	В
	Feb-24	19°C	7.48	180	260	8.0	24.0	224	116	108	178	2.2	6.0	120	84	4.0	0.19	0.05	30.63	0.15	0.19	4.3	2.9	0.12	В
	Mar-24	20°C	7.71	191	280	7.8	21.0	236	126	110	208	2.0	6.0	140	94	4.0	0.15	0.06	35.41	0.18	0.26	4.0	2.5	0.11	В
	Apr-24	21°C	7.95	185	270	7.6	23.0	226	120	106	192	2.2	6.0	110	79	2.0	0.23	0.11	43.16	0.15	0.20	3.6	2.2	0.10	В
	May-24	23°C	7.70	191	280	7.4	21.0	230	126	104	198	1.8	5.0	170	84	4.0	0.20	0.14	45.16	0.18	0.23	3.9	2.6	0.11	В
	Jun-24	23°C	7.64	177	260	7.2	19.0	232	122	110	176	2.0	6.0	170	130	4.0	0.20	0.15	44.89	0.17	0.23	3.8	2.4	0.11	В
Щ	Jul-24	21°C	7.47	183	270	7.0	17.0	224	120	104	172	2.0	5.0	140	110	6.8	0.23	0.11	50.13	0.2	0.2	6.3	2.5	0.18	В
	Aug-24	20°C	7.59	169	250	7.4	21	220	118	102	180	1.8	5	170	130	6.8	0.25	0.14	48.96	0.17	0.18	6.4	2.6	0.17	В
Щ	Sep-24	19°C	7.7	177	260	7.8	19	218	112	106	186	2	5	220	140	9.3	0.10	0.02	28.82	0.13	0.25	6.2	2.8	0.17	В
	Oct-24	19°C	7.5	182	270	7.8	23	228	120	108	178	2	6	170	130	9.1	0.10	0.02	29.43	0.13	0.25	6.2	2.8	0.17	В
														Sattal lake, N	ainital										

S.No.	Month	Temp	pН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	(DBU) Water Quality
66	Jan-24	11°C	7.22	115	170	9.0	13.0	162	92	70	160	1.4	5.0	150	94	6.1	0.13	0.06	45.79	0.26	0.22	3.1	2.0	0.11	В
	Feb-24	12°C	7.80	95	140	8.8	11.0	150	88	62	124	1.2	5.0	130	79	4.0	0.09	0.03	50.41	0.20	0.26	3.4	2.3	0.12	В
	Mar-24	14°C	7.42	101	150	8.6	9.0	134	78	56	128	1.0	4.0	110	70	4.0	0.18	0.05	55.41	0.23	0.21	3.8	2.5	0.14	В
	Apr-24	16°C	7.35	97	140	8.2	17.0	142	82	60	134	1.2	4.0	120	84	4.0	0.28	0.08	51.96	0.20	0.26	4.1	2.8	0.15	В
	May-24	17°C	7.44	108	160	8.0	11.0	170	96	74	140	1.4	4.0	150	79	2.0	0.22	0.07	48.16	0.19	0.24	4.5	3.0	0.15	В
	Jun-24	18°C	7.50	101	150	7.8	14.0	160	92	68	122	1.6	5.0	110	70	4.0	0.20	0.06	47.65	0.19	0.26	4.9	3.1	0.17	В
	Jul-24	17°C	7.61	105	150	7.6	9.0	140	78	62	118	1.2	4.0	120	94	4	0.26	0.09	50.66	0.15	0.21	6.7	4.2	0.24	В
	Aug-24	16°C	7.73	92	130	8	11	152	84	68	128	1.2	4	140	79	4.5	0.24	0.11	47.62	0.17	0.19	7.2	3.7	0.21	В
	Sep-24	14°C	7.66	103	150	8.2	9	162	92	70	132	1.4	4	170	110	6.1	0.07	0.03	36.92	0.18	0.19	6.9	3.5	0.20	В
	Oct-24	15°C	7.48	95	140	8.4	11	160	88	72	138	1.2	4	150	94	6.8	0.07	0.03	35.87	0.18	0.19	6.6	31	0.20	В
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S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride	Hardness (mg/l)	Calcium	Magnesium (mg/l)	Alkalinity	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/I	Potassium (mg/l)	SAR	(DBU) Water Quality
67	Jan-24	13°C	7.60	145	210	8.6	(mg/l) 18.0	186	(mg/l) 102	84	(mg/I) 174	1.2	5.0	140	79	(MPN/100 ml) 4.0	0.14	0.07	(mg/l) 55.66	0.23	0.23	2.9	2.2	0.09	В
	Feb-24	14°C	7.26	130	190	8.6	13.0	170	92	78	148	1.8	5.0	150	94	4.0	0.11	0.04	60.43	0.18	0.28	3.1	2.0	0.10	В
	Mar-24	16°C	7.60	117	170	8.2	15.0	160	88	72	154	1.4	4.0	120	70	4.5	0.15	0.06	55.96	0.22	0.25	3.6	2.3	0.12	В
	Apr-24	17°C	7.88	144	210	7.8	17.0	178	94	84	168	1.8	5.0	170	79	6.1	0.19	0.12	59.14	0.16	0.21	3.9	2.5	0.13	В
	May-24	18°C	7.71	150	220	7.4	15.0	192	104	88	162	1.6	5.0	120	94	6.1	0.23	0.09	55.46	0.20	0.23	4.1	2.8	0.13	В
	Jun-24	19°C	7.69	148	220	7.4	17.0	182	102	80	154	1.8	5.0	140	79	6.8	0.20	0.09	54.51	0.19	0.20	4.3	2.6	0.14	В
	Jul-24	18°C	7.40	145	210	7.2	14.0	166	92	78	148	1.4	4.0	170	94	7.8	0.28	0.06	58.92	0.22	0.22	2.9	2.6	0.10	В
	Aug-24	17°C	7.38	129	190	7.6	17	176	96	80	144	1.6	4	130	79	6.1	0.23	0.08	55.41	0.25	0.18	3.7	2.5	0.11	В
	Sep-24	16°C	7.57	155	230	8	13	184	98	86	160	1.6	4	120	94	6.1	0.10	0.03	49.18	0.17	0.20	3.6	2.9	0.10	В
	Oct-24	17°C	7.7	142	210	8	12	174	96	78	164	1.8	5	110	79	7.8	0.10	0.03	48.26	0.16	0.20	3.5	2.2	0.10	В
													River Shipra D	/S near Neem Kard	oli Dam, Bhawali, N							_			Designated pest use
S.No.	Month	Temp	pН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	(DBU) Water Quality
68	Jan-24	13°C	7.14	150	210	8.4	24.0	228	120	108	188	2.0	6.0	130	79	4.5	0.13	0.05	35.41	0.19	0.23	3.7	1.4	0.11	В
	Feb-24	14°C	7.59	118	170	8.4	19.0	200	104	96	154	1.6	5.0	120	94	4.5	0.09	0.03	40.77	0.22	0.28	4.0	1.7	0.12	В
<u> </u>	Mar-24	16°C	7.47	129	220	8.2	23.0	214	110	104	168	1.8	6.0	110	79	4.5	0.13	0.05	46.71	0.25	0.22	3.8	1.4	0.11	В
	Apr-24	17°C	7.19	131	190	7.8	21.0	198	106	92	174	2.0	6.0	120	94	4.0	0.18	0.09	50.77	0.20	0.26	4.0	1.8	0.12	В
<u> </u>	May-24	18°C	7.34	155	220	7.6	19.0	208	112	96	178	1.8	5.0	110	79	4.0	0.23	0.12	53.46	0.23	0.22	3.7	2.0	0.11	В
<u> </u>	Jun-24	19°C	7.41	144	210	7.4	20.0	190	110	80	168	2.0	6.0	110	79	6.8	0.20	0.10	54.45	0.23	0.21	3.9	2.4	0.12	В
<u> </u>	Jul-24	17°C	7.64	129	190	7.4	17.0	186	102	84	154	1.4	5.0	120	94	6.8	0.26	0.15	55.41	0.2	0.2	4.9	4.2	0.16	В
<u> </u>	Aug-24	17°C	7.71	124	180	7.8	21	202	108	94	160	1.6	5	110	70	6.8	0.23	0.12	58.63	0.23	0.17	5.7	3.8	0.19	В
\vdash	Sep-24	16°C	7.38	143	210	8	19	192	104	88	164	1.8	5	130	79	4.5	0.11	0.05	24.99	0.13	0.20	5.4	3.4	0.18	В
	Oct-24	15°C	7.44	149	220	8.2	21	194	110	84	172	1.4	4	130	79	6.1	0.11	0.05	23.46	0.13	0.20	5.1	3.3	0.17	В
													Kosi River at Kas	hipur Bajpur Road	l Bridge, Kashipur, l	US Nagar									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (µS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality

69	Jan-24	16°C	7.20	178	267	7.9	10.0	285	172	113	275	2.2	14.0	280	170	20	0.11	0.27	36.4	0.12	0.26	8.4	5.9	0.22	В
	Feb-24	18°C	7.62	246	370	7.7	12.0	292	178	114	260	2.4	16.0	350	220	13	0.15	0.28	41.2	0.22	0.29	6.8	5.1	0.17	В
	Mar-24	21°C	7.84	286	434	8.0	10.0	305	210	95	275	2.2	14.0	430	280	14	0.12	0.22	29.5	0.18	0.24	18.3	2.7	0.45	В
	Apr-24	26°C	7.92	356	594	7.6	15.0	297	152	145	240	2.6	16.0	540	240	17	0.15	0.49	66.38	0.37	0.21	14.5	5.7	0.36	С
	May-24	33°C	7.32	364	544	7.8	13.0	265	135	130	210	2.5	14.0	430	350	20	0.13	0.41	58.23	0.29	0.28	12.1	1.6	0.32	В
	Jun-24	33°C	7.88	296	494	7.5	15.0	256	135	121	205	2.8	16.0	350	280	32	0.15	0.48	55.28	0.31	0.25	15.2	3.4	0.41	В
	Jul-24	31°C	7.55	176	285	7.8	14.0	146	98	48	140	1.8	12	430	350	70	0.12	0.38	36.55	0.25	0.21	7.4	3.7	0.26	В
	Aug-24	30	7.51	158	260	7.4	18	130	87	43	120	2.1	12	350	280	79	0.22	0.81	68.12	0.35	0.25	7	5.7	0.27	В
	Sep-24	30°C	7.38	191	316	7.6	14	145	98	47	130	2	10.4	430	350	94	0.18	0.65	46.74	0.28	0.23	8.5	4.9	0.31	В
	Oct-24	30	7.56	292	484	7.4	18	160	102	58	145	2.2	12	350	280	110	0.24	0.75	52.18	0.32	0.25	10.2	4.5	0.35	В
													hella River U/S	at Kashipur Morac	labad Road Bridge,	US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
70	Jan-24	13°C	7.60	136	205	7.2	12.0	198	142	56	210	2.4	16.0	350	210	40	0.21	0.22	48.1	0.08	0.31	14.3	4.5	0.44	B
	Feb-24	20°C	7.84	166	254	7.0	14.0	228	161	67	195	2.5	18.0	280	220	32	0.24	0.26	52.5	0.11	0.26	12.5	3.5	0.36	В
	Mar-24	21°C	7.76	238	358	6.6	16.0	195	161	34	170	2.8	20.0	540	240	38	0.31	0.29	64.6	0.15	0.28	13.3	5.2	0.41	С
	Apr-24	32°C	7.88	226	379	6.4	15.0	159	90	69	155	3.0	20.0	430	350	40	0.49	0.35	19.32	0.05	0.40	20.1	4.7	0.69	В
	May-24											River was drv.													
	Jun-24											River was dry.													
	Jul-24	29°C	7.58	185	312	6.1	15.0	104	70	34	120	2.4	16	350	280	40	0.42	0.31	24.58	0.09	0.35	7.8	5.3	0.33	В
	Aug-24	29	7.8	194	358	6.6	13	154	98	56	175	2.2	12	280	240	70	0.52	0.43	32.7	0.11	0.39	12	4.4	0.42	В
	Sep-24	27°C	7.64	148	242	6.8	9	125	79	46	115	2	12	350	210	79	0.35	0.29	28.24	0.08	0.31	5.1	1.4	0.2	В
	Oct-24	27	7.74	217	362	6.1	15	138	86	52	130	2.4	13.6	430	350	79	0.41	0.32	35.72	0.11	0.3	6.8	2.2	0.25	В
													Dhella River D)/S at Thakurdwar	a, Aliganj Road, US	Nagar									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
71	Jan-24	14°C	7.30	298	470	2.4	48.0	296	218	78	295	25.0	160.0	430	280	94	0.43	0.65	61.9	0.15	0.35	74.9	14.4	1.89	Е
	Feb-24	20°C	7.39	342	512	2.6	46.0	316	230	86	275	23.0	144.0	350	240	79	0.38	0.51	65.5	0.18	0.32	78.5	13.1	1.91	Е
	Mar-24	22°C	7.11	378	567	2.2	49.0	255	188	67	245	26.0	160.0	920	430	110	0.49	0.54	96.8	0.28	0.38	36.4	8.8	0.99	Е
	Apr-24	33°C	7.13	375	633	1.2	88.0	235	185	50	220	30.0	176.0	1600	540	140	0.31	0.83	110.34	0.30	0.48	84.2	24.1	2.38	Е
	May-24	36°C	7.63	572	855	0.8	80.0	275	214	61	245	34.0	192.0	920	540	170	0.55	0.41	141.46	0.62	0.72	149.0	7.6	3.9	Е
	Jun-24	36°C	7.51	756	1260	0.7	129.0	345	265	80	385	38.0	240.0	920	350	94	0.75	0.65	201.52	0.98	0.83	168.2	11.6	3.92	E
	Jul-24	31°C	7.19	456	764	1.8	78.0	252	184	68	185	32	176	1600	540	110	0.62	0.56	94.32	0.72	0.64	15.3	6.2	0.42	E

	Aug-24	32	7.09	509	842	1.6	72	282	205	77	295	36	192	920	540	94	0.58	0.51	74.78	0.58	0.52	78.3	10.4	0.02	Е
\vdash	Sep-24	28°C	7.21	297	485	2	42	204	146	58	205	30	160	540	350	79	0.47	0.42	58.51	0.38	0.46	27.9	5.6	0.85	Е
	Oct-24	30	6.95	508	842	1.6	48	225	158	67	235	32	176	920	350	110	0.54	0.48	74.28	0.44	0.48	25.8	4.1	0.75	Е
	00.2.	30	0.55	500	0.12	1.0		223	150	0,	233	32			amnagar Road), US		0.51	0.10	7 1.20	0.11	0.10	23.0	1.1	0.75	L
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride	Hardness (mg/l)	Calcium	Magnesium (mg/l)	Alkalinity	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
72	Jan-24	16°C	7.50	117	175	7.0	(mg/l) 11.0	156	(mg/l) 120	36	(mg/l) 145	2.0	12.0	220	170	(MPN/100 ml)	0.29	0.18	(mg/l) 23.13	0.03	0.24	12.5	3.4	0.43	Criteria B
"	Feb-24	14°C	-	165	-	 	<u> </u>		128	40	150			280			-	 	-	\vdash	0.24	10.2		0.43	В
	Mar-24	18°C	7.41	172	252 259	6.8	13.0	168 155	119	36	160	2.4	15.0	350	220	39	0.26	0.21	28.4 36.8	0.08	0.25	7.7	2.4	0.34	В
\vdash	Apr-24	27°C		148	244	6.2	15.0		70	37	130	2.5	16.0	540	240	40	0.29	0.22	-	0.08	0.23	6.5	2.8	0.27	С
-	 	2/10	7.73	148	244	0.4	13.0	107	70	37	130	2.3	16.0		240	40	0.23	0.33	26.91	0.08	0.51	6.3	2.8	0.27	
-	May-24													River was dry.			<u> </u>								
-	Jun-24	27%	7.01	1.62	264	6.4	12.0	120	70		115	2.1	12	River was dry.	220	22	0.42	0.20	22.42	0.11	0.25	0.0	4.1	0.22	ъ
\vdash	Jul-24	27°C	7.01	162	264	6.4	12.0	130	79	51	115	2.1	12	350	220	32	0.42	0.28	32.42	0.11	0.35	8.8	4.1	0.33	В
\vdash	Aug-24	28	7.11	186	306	6.5	15	144	92	52	160	2	12	350	240	39	0.51	0.36	30.56	0.15	0.38	12.1	3.5	0.44	В
<u> </u>	Sep-24	27°C	7.19	195	327	7	13	162	105	57	155	1.8	13.6	430	280	70	0.41	0.29	25.46	0.11	0.32	13.6	5.5	0.46	В
	Oct-24	25	7.26	221	369	6.4	17	174	114	60	170	2.2	12.8	430	350 ur (D/S Lohiya Bridg	48	0.45	0.35	29.22	0.18	0.35	12.2	5.9	0.4	В
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride	Hardness (mg/l)	Calcium	Magnesium (mg/l)	Alkalinity	BOD (mg/l)	COD (mg/l)	1		Fecal Steptococcss	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
S.No.	Month Jan-24	Temp 16°C	рн 7.20		1	DO (mg/l)	(mg/l)	Hardness (mg/l)	(mg/l)	Magnesium (mg/l)	(mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)		Nitrate-N (mg/l)	Nitrite-N (mg/l)	(mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	sar 0.74	(DBU) Water Quality Criteria
5.No.		16°C	рн 7.20 6.85	164	EC (μS/cm) 270 324	DO (mg/l) 2.8 2.8				92 107		BOD (mg/l) 16.0	COD (mg/l) 120.0 104.0	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l) 0.30 0.32	0.26 0.25		Phosphate (mg/l) 0.13 0.22	6.45	27.3 29.2	Potassium (mg/l) 8.6 8.1	0.74	Designated Best use (DBU) Water Quality Criteria E
\vdash	Jan-24	16°C	7.20	164 215	270 324	2.8	(mg/l) 28.0	254	(mg/l) 162	92	(mg/l) 265	16.0	120.0	TC (MPN/100 ml) 540	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	0.30	0.26	(mg/l) 38.06 42.6	0.13	0.45	27.3	8.6	0.74	(DBU) Water Quality Criteria E
\vdash	Jan-24 Feb-24	16°C 19°C	7.20 6.85	164	270	2.8	(mg/l) 28.0 30.0	254 285	(mg/l) 162 178	92 107	(mg/l) 265 255	16.0 17.0	120.0 104.0	TC (MPN/100 ml) 540 430	FC (MPN/100 ml) 430 350	Fecal Steptococcss (MPN/100 ml) 94 70	0.30	0.26 0.25	(mg/l) 38.06	0.13 0.22	0.45	27.3 29.2	8.6	0.74	(DBU) Water Quality Criteria E
\vdash	Jan-24 Feb-24 Mar-24	16°C 19°C 21°C	7.20 6.85 6.93 6.37	164 215 305 315	270 324 456	2.8 2.8 3.0 2.2	(mg/l) 28.0 30.0 28.0	254 285 224	(mg/l) 162 178 140 153	92 107 84	(mg/l) 265 255 210	16.0 17.0 16.0	120.0 104.0 96.0	TC (MPN/100 ml) 540 430 540	FC (MPN/100 ml) 430 350 430	Fecal Steptococcss (MPN/100 ml) 94 70 79	0.30 0.32 0.40 0.43	0.26 0.25 0.32	(mg/l) 38.06 42.6 68.2	0.13 0.22 0.26	0.45 0.48 0.45	27.3 29.2 16.5	8.6 8.1 8.8	0.74 0.75 0.48	(DBU) Water Quality Criteria E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24	16°C 19°C 21°C 30°C	7.20 6.85 6.93	164 215 305	270 324 456 522	2.8 2.8 3.0	(mg/l) 28.0 30.0 28.0 86.0	254 285 224 260	(mg/l) 162 178 140	92 107 84 107	(mg/l) 265 255 210 225	16.0 17.0 16.0 18.0	120.0 104.0 96.0 104.0	TC (MPN/100 ml) 540 430 540 920	430 350 430 540	Fecal Steptococcss (MPN/100 ml) 94 70 79 94	0.30 0.32 0.40	0.26 0.25 0.32 0.52	(mg/l) 38.06 42.6 68.2 41.72	0.13 0.22 0.26 0.10	0.45 0.48 0.45 0.80	27.3 29.2 16.5 52.7	8.6 8.1 8.8 9.9	0.74 0.75 0.48 1.42	(DBU) Water Quality Criteria E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24	16°C 19°C 21°C 30°C 32°C	7.20 6.85 6.93 6.37 6.52	164 215 305 315 634	270 324 456 522 948	2.8 2.8 3.0 2.2 1.4	(mg/l) 28.0 30.0 28.0 86.0 89.0	254 285 224 260 285	(mg/l) 162 178 140 153	92 107 84 107 119	(mg/l) 265 255 210 225 240	16.0 17.0 16.0 18.0 24.0	120.0 104.0 96.0 104.0 160.0	TC (MPN/100 ml) 540 430 540 920 1600	430 350 430 540	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110	0.30 0.32 0.40 0.43 0.62	0.26 0.25 0.32 0.52 0.58	(mg/l) 38.06 42.6 68.2 41.72 84.62	0.13 0.22 0.26 0.10 0.45	0.45 0.48 0.45 0.80 0.96	27.3 29.2 16.5 52.7 81.5	8.6 8.1 8.8 9.9 1.6	0.74 0.75 0.48 1.42 2.09	(DBU) Water Quality Criteria E E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24	16°C 19°C 21°C 30°C 32°C 36°C	7.20 6.85 6.93 6.37 6.52 6.61	164 215 305 315 634 498	270 324 456 522 948 828	2.8 2.8 3.0 2.2 1.4 1.2	(mg/l) 28.0 30.0 28.0 86.0 89.0	254 285 224 260 285 320	(mg/l) 162 178 140 153 166 205	92 107 84 107 119	(mg/l) 265 255 210 225 240 305	16.0 17.0 16.0 18.0 24.0 28.0	120.0 104.0 96.0 104.0 160.0 192.0	TC (MPN/100 ml) 540 430 540 920 1600 430	FC (MPN/100 ml) 430 350 430 540 920 350	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94	0.30 0.32 0.40 0.43 0.62 0.78	0.26 0.25 0.32 0.52 0.58 0.42	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68	0.13 0.22 0.26 0.10 0.45 0.74	0.45 0.48 0.45 0.80 0.96 0.81	27.3 29.2 16.5 52.7 81.5 112.0	8.6 8.1 8.8 9.9 1.6 5.2	0.74 0.75 0.48 1.42 2.09 2.71	E E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24	16°C 19°C 21°C 30°C 32°C 36°C 33°C	7.20 6.85 6.93 6.37 6.52 6.61 6.95	164 215 305 315 634 498 385	270 324 456 522 948 828 642	2.8 2.8 3.0 2.2 1.4 1.2 2.2	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0	254 285 224 260 285 320 240	(mg/l) 162 178 140 153 166 205 178	92 107 84 107 119 115 62	(mg/l) 265 255 210 225 240 305 215	16.0 17.0 16.0 18.0 24.0 28.0	120.0 104.0 96.0 104.0 160.0 192.0	TC (MPN/100 ml) 540 430 540 920 1600 430 920	430 350 430 540 920 350 540	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110	0.30 0.32 0.40 0.43 0.62 0.78 0.52	0.26 0.25 0.32 0.52 0.58 0.42 0.31	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62	0.13 0.22 0.26 0.10 0.45 0.74 0.63	0.45 0.48 0.45 0.80 0.96 0.81 0.66	27.3 29.2 16.5 52.7 81.5 112.0 20.7	8.6 8.1 8.8 9.9 1.6 5.2 8.8	0.74 0.75 0.48 1.42 2.09 2.71 0.58	E E E E E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24	16°C 19°C 21°C 30°C 32°C 36°C 33°C 31	7.20 6.85 6.93 6.37 6.52 6.61 6.95	164 215 305 315 634 498 385 397	270 324 456 522 948 828 642 668	2.8 2.8 3.0 2.2 1.4 1.2 2.2 2.1	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0	254 285 224 260 285 320 240 280	(mg/l) 162 178 140 153 166 205 178 212	92 107 84 107 119 115 62 68	(mg/l) 265 255 210 225 240 305 215 305	16.0 17.0 16.0 18.0 24.0 28.0 22 24	120.0 104.0 96.0 104.0 160.0 192.0 128 140	TC (MPN/100 ml) 540 430 540 920 1600 430 920 1600	430 350 430 540 920 350 540 920	Pecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110 140	0.30 0.32 0.40 0.43 0.62 0.78 0.52 0.72	0.26 0.25 0.32 0.52 0.58 0.42 0.31 0.46	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62 69.17	0.13 0.22 0.26 0.10 0.45 0.74 0.63 0.52	0.45 0.48 0.45 0.80 0.96 0.81 0.66 0.61	27.3 29.2 16.5 52.7 81.5 112.0 20.7 41.1	8.6 8.1 8.8 9.9 1.6 5.2 8.8	0.74 0.75 0.48 1.42 2.09 2.71 0.58 1.06	E E E E E E E E E E E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	16°C 19°C 21°C 30°C 32°C 36°C 33*C 31°C	7.20 6.85 6.93 6.37 6.52 6.61 6.95 6.3	164 215 305 315 634 498 385 397 384	270 324 456 522 948 828 642 668	2.8 2.8 3.0 2.2 1.4 1.2 2.2 2.1 2.2	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0 46 41 54	254 285 224 260 285 320 240 280 290	(mg/l) 162 178 140 153 166 205 178 212	92 107 84 107 119 115 62 68 72	(mg/l) 265 255 210 225 240 305 215 305 380	16.0 17.0 16.0 18.0 24.0 28.0 22 24 22	120.0 104.0 96.0 104.0 160.0 192.0 128 140 120 136	TC (MPN/100 ml) 540 430 540 920 1600 430 920 1600 1600 920	FC (MPN/100 ml) 430 350 430 540 920 350 540 920 540	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110 140 170 110	0.30 0.32 0.40 0.43 0.62 0.78 0.52 0.72 0.67	0.26 0.25 0.32 0.52 0.58 0.42 0.31 0.46 0.38	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62 69.17 48.44	0.13 0.22 0.26 0.10 0.45 0.74 0.63 0.52 0.46	0.45 0.48 0.45 0.80 0.96 0.81 0.66 0.61 0.51	27.3 29.2 16.5 52.7 81.5 112.0 20.7 41.1 33.1	8.6 8.1 8.8 9.9 1.6 5.2 8.8 8	0.74 0.75 0.48 1.42 2.09 2.71 0.58 1.06 0.84	E E E E E E E E E E E E E E E E E E E
\vdash	Jan-24 Feb-24 Mar-24 Apr-24 May-24 Jun-24 Jul-24 Aug-24 Sep-24	16°C 19°C 21°C 30°C 32°C 36°C 33*C 31°C	7.20 6.85 6.93 6.37 6.52 6.61 6.95 6.3	164 215 305 315 634 498 385 397 384	270 324 456 522 948 828 642 668	2.8 2.8 3.0 2.2 1.4 1.2 2.2 2.1 2.2	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0 46	254 285 224 260 285 320 240 280 290	(mg/l) 162 178 140 153 166 205 178 212	92 107 84 107 119 115 62 68 72	(mg/l) 265 255 210 225 240 305 215 305 380	16.0 17.0 16.0 18.0 24.0 28.0 22 24 22	120.0 104.0 96.0 104.0 160.0 192.0 128 140 120 136	TC (MPN/100 ml) 540 430 540 920 1600 430 920 1600 1600 920	## ## ## ## ## ## ## ## ## ## ## ## ##	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110 140 170 110	0.30 0.32 0.40 0.43 0.62 0.78 0.52 0.72 0.67	0.26 0.25 0.32 0.52 0.58 0.42 0.31 0.46 0.38	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62 69.17 48.44	0.13 0.22 0.26 0.10 0.45 0.74 0.63 0.52 0.46	0.45 0.48 0.45 0.80 0.96 0.81 0.66 0.61 0.51	27.3 29.2 16.5 52.7 81.5 112.0 20.7 41.1 33.1	8.6 8.1 8.8 9.9 1.6 5.2 8.8 8	0.74 0.75 0.48 1.42 2.09 2.71 0.58 1.06 0.84	E E E E E E E E E E E E E
73	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	16°C 19°C 21°C 30°C 32°C 36°C 33°C 31 31°C 30	7.20 6.85 6.93 6.37 6.52 6.61 6.95 6.3 6.78	164 215 305 315 634 498 385 397 384 375	270 324 456 522 948 828 642 668 644 622	2.8 2.8 3.0 2.2 1.4 1.2 2.2 2.1 2.2 1.5	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0 46 41 54	254 285 224 260 285 320 240 280 290 312	(mg/l) 162 178 140 153 166 205 178 212 218 234	92 107 84 107 119 115 62 68 72 78	(mg/l) 265 255 210 225 240 305 215 305 380 390	16.0 17.0 16.0 18.0 24.0 22.0 24.0 22.0 24.0 24.0 22.0 24.0 24.0	120.0 104.0 96.0 104.0 160.0 192.0 128 140 120 136 Pilakha	TC (MPN/100 ml) 540 430 540 920 1600 430 920 1600 1600 1600 7 River at Bilaspur,	540 920 540 920 540 8ampur, US Nagar	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110 140 170 110	0.30 0.32 0.40 0.43 0.62 0.78 0.52 0.72 0.67	0.26 0.25 0.32 0.52 0.58 0.42 0.31 0.46 0.38 0.35	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62 69.17 48.44 62.14	0.13 0.22 0.26 0.10 0.45 0.74 0.63 0.52 0.46 0.52	0.45 0.48 0.45 0.80 0.96 0.81 0.66 0.61 0.51	27.3 29.2 16.5 52.7 81.5 112.0 20.7 41.1 33.1 29.8	8.6 8.1 8.8 9.9 1.6 5.2 8.8 8 8.3 9.2	0.74 0.75 0.48 1.42 2.09 2.71 0.58 1.06 0.84 0.73	E E E E E E E E E E E E E
73 S.No.	Jan-24 Feb-24 Mar-24 Apr-24 Jun-24 Jul-24 Aug-24 Sep-24 Oct-24	16°C 19°C 21°C 30°C 32°C 36°C 31°C 31 Temp	7.20 6.85 6.93 6.37 6.52 6.61 6.95 6.3 6.78	164 215 305 315 634 498 385 397 384 375	270 324 456 522 948 828 642 668 644 622	2.8 2.8 3.0 2.2 1.4 1.2 2.2 2.1 2.2 1.5	(mg/l) 28.0 30.0 28.0 86.0 89.0 107.0 52.0 46 41 54	254 285 224 260 285 320 240 280 290 312	(mg/l) 162 178 140 153 166 205 178 212 218 234	92 107 84 107 119 115 62 68 72 78	(mg/l) 265 255 210 225 240 305 215 305 380 390 Alkalinity (mg/l)	16.0 17.0 16.0 18.0 24.0 28.0 22 24 22 24	120.0 104.0 96.0 104.0 160.0 192.0 128 140 120 136 Pilakha	TC (MPN/100 ml) 540 430 540 920 1600 430 920 1600 1600 920 r River at Bilaspur, TC (MPN/100 ml)	## ## ## ## ## ## ## ## ## ## ## ## ##	Fecal Steptococcss (MPN/100 ml) 94 70 79 94 110 94 110 140 170 110	0.30 0.32 0.40 0.43 0.62 0.78 0.52 0.72 0.67 0.67	0.26 0.25 0.32 0.52 0.58 0.42 0.31 0.46 0.38 0.35	(mg/l) 38.06 42.6 68.2 41.72 84.62 104.68 75.62 69.17 48.44 62.14	0.13 0.22 0.26 0.10 0.45 0.74 0.63 0.52 0.46 0.52	0.45 0.48 0.45 0.80 0.96 0.81 0.66 0.61 0.51 0.55	27.3 29.2 16.5 52.7 81.5 112.0 20.7 41.1 33.1 29.8	8.6 8.1 8.8 9.9 1.6 5.2 8.8 8 8.3 9.2	0.74 0.75 0.48 1.42 2.09 2.71 0.58 1.06 0.84 0.73	(DBU) Water Quality Criteria E E E E E E E E E E E E E E E E E E E

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<u> </u>	Apr-24	22°C	7.56	298	492	6.4	17.0	215	156	59	245	2.9	22.0	430	350	70	0.22	0.29	44.52	0.32	0.32	14.8	3.8	0.44	В
<u> </u>	May-24	29°C	7.71	368	551	6.8	15.0	225	162	63	235	2.6	20.0	350	280	110	0.24	0.26	40.12	0.38	0.36	20.8	1.1	0.60	В
<u> </u>	Jun-24	30°C	7.55	356	579	6.2	22.0	240	162	78	220	2.8	20.0	540	240	130	0.29	0.42	65.42	0.52	0.44	25.6	2.1	0.71	С
	Jul-24	28°C	7.23	261	436	6.8	24.0	194	145	49	210	2.4	16	430	350	94	0.24	0.46	46.52	0.4	0.37	17.2	2.1	0.54	В
	Aug-24	27	7.52	254	419	6.6	29	178	135	43	185	2.6	16	350	280	110	0.36	0.62	54.26	0.61	0.32	15.6	3.5	0.51	В
	Sep-24	27°C	7.25	224	358	6.8	25	141	106	35	165	2.2	14.4	540	220	94	0.39	0.52	43.52	0.49	0.26	12.8	3.3	0.47	С
	Oct-24	25	7.36	235	389	6.2	29	154	111	43	170	2.5	16	540	350	94	0.42	0.55	52.18	0.55	0.31	14.2	5.1	0.5	С
												Nanduar	River U/S Sitarg	anj Industrial Area	a, (Nandour U/S Sita	arganj), US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
75	Jan-24											River was dry.													Chrena
	Feb-24	17°C	7.49	146	222	8.2	9.0	155	102	53	145	1.6	8.0	920	430	94	0.24	0.18	18.4	0.03	0.21	7.4	1.4	0.26	С
	Mar-24	20°C	7.86	236	353	7.6	11.0	180	114	66	160	2.0	10.0	920	540	110	0.32	0.24	24.6	0.08	0.19	8.6	2.2	0.28	С
	Apr-24	River																							
	May-24	was																							
	Jun-24														River was found										
	Jul-24	29°C	7.84	105	184	8.1	14.0	108	74	34	115	1.6	8	920	350	70	0.34	0.22	18.53	0.05	0.13	4.5	2.6	0.19	С
	Aug-24	28	7.91	139	228	8	17	124	89	35	140	1.8	12	920	540	79	0.54	0.42	17.26	0.09	0.15	4.9	2.3	0.19	С
	Sep-24	29°C	7.84	148	245	8.4	8	104	71	33	115	1.5	8	540	350	110	0.46	0.33	15.69	0.08	0.12	5.9	3.5	0.25	С
	Oct-24	30	8.11	166	272	8	12	119	84	35	125	1.4	8.8	920	540	110	0.44	0.39	24.29	0.12	0.09	6.1	2.8	0.24	С
												Nanduar	River D/S Sitarg	anj Industrial Area	a, (Nandour D/S Sita	arganj), US Nagar									
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
76	Jan-24	14°C	7.40	165	248	8.0	13.0	236	148	88	275	2.2	12.0	920	540	220	0.38	0.30	17.12	0.11	0.31	10.1	3.5	0.28	Criteria C
	Feb-24	17°C	7.81	233	352	7.8	15.0	286	177	109	260	2.4	12.0	1600	920	280	0.31	0.24	21.5	0.15	0.25	11.2	4.4	0.29	С
	Mar-24	20°C	7.89	274	411	6.9	18.0	236	145	91	220	2.8	16.0	17×10 ²	14×10 ²	240	0.44	0.31	42.6	0.21	0.32	8.8	2.0	0.25	С
	Apr-24	28°C	7.95	232	398	7.2	17.0	206	120	86	185	2.6	14.0	21×10 ²	11×10 ²	220	0.44	0.32	18.04	0.18	0.37	9.0	2.5	0.27	С
	May-24	35°C	7.92	222	334	7.0	18.0	214	126	88	195	2.8	16.0	1600	920	170	0.48	0.36	32.12	0.32	0.45	11.2	0.5	0.33	С
	Jun-24	35°C	7.88	247	412	6.6	25.0	188	112	76	150	3.0	20.0	28×10 ²	22×10 ²	350	0.61	0.38	56.28	0.48	0.39	22.4	2.1	0.70	С
	Jul-24	35°C	7.62	134	228	7.2	20.0	129	92	37	135	2.8	16	1600	920	220	0.52	0.35	40.54	0.42	0.28	5.4	3.4	0.21	С
\vdash	Aug-24	32	7.72	152	264	7.1	25	145	106	39	185	2.8	20	920	540	170	0.68	0.51	28.39	0.36	0.35	5.9	3.1	0.21	С
	Sep-24	29°C	7.79	194	328	7.8	13	184	131	53	155	2.4	16	920	540	140	0.54	0.39	21.24	0.28	0.3	7.9	4.8	0.25	С
	Oct-24	31	7.83	224	370	7.5	19	194	138	56	165	2.8	17.6	1600	920	170	0.61	0.48	38.15	0.29	0.35	8.9	3.5	0.28	С
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												Kichha	River at Kichha,	, (River Kichha (D/S	Nagarbhalla, Kash	ipur), US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/I)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)) Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
77	Jan-24	15°C	7.60	254	385	5.8	29.0	288	176	112	255	3.2	28.0	430	220	47	0.25	0.48	60.56	0.18	0.29	35.1	7.5	0.90	D
	Feb-24	20°C	7.82	356	535	5.6	30.0	272	175	97	265	3.3	28.0	540	350	70	0.21	0.41	55.2	0.20	25	31.4	9.2	0.83	D
	Mar-24	22°C	7.79	411	626	4.6	32.0	284	185	99	255	3.5	36.0	1600	920	130	0.24	0.39	66.4	0.28	0.26	37.4	5.2	0.96	D
	Apr-24	27°C	7.86	418	706	4.4	55.0	294	168	126	240	3.8	40.0	17×10 ²	11×10 ²	140	0.24	0.33	65.94	0.21	0.41	53.5	7.2	1.35	D
	May-24	34°C	6.80	432	648	4.0	57.0	285	160	125	250	4.9	48.0	21×10 ²	14×10 ²	140	0.41	0.36	95.46	0.46	0.72	108.0	2.5	2.77	D
	Jun-24	34°C	7.98	582	964	3.6	79.0	348	210	138	325	6.2	64.0	1600	920	130	0.64	0.52	134.52	0.74	0.64	132.0	4.2	3.11	Е
	Jul-24	34°C	7.51	295	488	5.5	35.0	219	162	57	195	4.8	52	>1600	1600	210	0.55	0.46	78.94	0.71	0.58	18.7	6.8	0.55	D
	Aug-24	35	7.45	295	488	6	32	186	128	58	190	4.2	44	1600	920	170	0.76	0.82	75.01	0.68	0.64	16.2	7.9	0.52	D
	Sep-24	30°C	7.35	258	418	6.6	18	176	121	55	180	3.8	32	>1600	920	130	0.48	0.55	56.42	0.51	0.58	16	11.1	0.52	D
																D									
S.No.																Designated Best use									
78	Jan-24	15°C	7.40	203	312	6.9	(mg/l) 7.0	Hardness (mg/l)	(mg/I) 172	Magnesium (mg/l)	(mg/l) 280	2.1	10.0	540	430	(MPN/100 ml)	0.24	0.16	(mg/I) 14.57	0.06	0.27	8.9	3.0	0.26	(DBU) Water Quality Criteria C
	Feb-24	17°C	7.96	294	442	6.5	10.0	254	198	56	245	2.4	16.0	920	350	110	0.24	0.10	25.4	0.11	0.22	5.8	2.2	0.16	С
	Mar-24	19°C	7.84	353	551	7.1	9.0	266	208	58	260	2.2	14.0	540	430	140	0.22	0.18	28.2	0.12	0.15	8.1	2.3	0.22	С
	Apr-24	23°C	7.67	335	573	6.2	13.0	283	155	128	270	2.6	20.0	430	350	110	0.52	0.40	48.72	0.41	0.35	14.6	5.1	0.38	В
	May-24	26°C	6.78	384	575	5.6	17.0	294	163	131	255	2.9	20.0	540	240	140	0.56	0.38	54.18	0.48	0.44	9.4	0.1	0.24	С
	Jun-24													River was found Dry.											
	Jul-24	29°C	7.41	292	476	5.4	22	243	154	89	220	2.8	20	430	220	94	0.38	0.29	28.22	0.23	0.54	8.5	4.1	0.24	В
	Aug-24	28	7.41	235	384	5.2	19	270	175	95	255	3	24	350	280	79	0.45	0.36	26.54	0.25	0.58	10.7	3.1	0.28	В
	Sep-24	26°C	7.27	205	338	6.2	9	191	125	66	185	2.8	20	540	350	94	0.39	0.27	23.54	0.19	0.45	6	2.5	0.19	С
	Oct-24	26	7.48	321	530	5.5	15	206	135	71	190	3	21.6	430	350	94	0.42	0.35	29.32	0.25	0.34	7	3.2	0.21	В
												Riv	er Kailash Down	stream behind Sita	rganj Industrial Are	ea, US Nagar									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)) Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality
79	Jan-24	17°C	7.30	146	228	8.2	11.0	132	86	46	190	1.8	10.0	210	170	70	0.27	0.24	15.57	0.02	0.23	9.8	2.1	0.37	B E
	Feb-24	17°C	7.88	189	295	8.0	12.0	158	98	60	180	2.0	12.0	280	220	94	0.28	0.19	21.4	0.08	0.24	7.8	2.4	0.27	В
	Mar-24	20°C	7.86	244	365	7.2	14.0	172	108	64	165	2.4	16.0	350	280	110	0.35	0.21	28.6	0.11	0.28	9.8	2.8	0.32	В
	Apr-24	29°C	7.62	172	294	7.0	17.0	220	138	82	180	2.6	16	430	220	94	0.29	0.37	15.27	0.04	0.46	8.8	2.8	0.26	В
	May-24	31°C	7.89	246	370	7.2	15.0	242	154	88	195	2.4	14.0	350	220	94	0.25	0.29	18.24	0.06	0.34	11.7	0.4	0.33	В

	Jun-24	34°C	7.72	258	430	6.8	21.0	212	115	97	205	2.6	14.0	540	350	110	0.29	0.25	25.4	0.15	0.34	15.2	1.2	0.45	С
	Jul-24	32°C	7.68	156	268	7.8	12.0	133	95	38	145	1.8	12	430	350	94	0.23	0.18	20.86	0.12	0.28	6.1	3	0.23	В
	Aug-24	30	7.82	162	276	7.8	19	142	95	47	170	2	12	540	430	110	0.48	0.44	18.89	0.11	0.18	6	2.6	0.22	С
	Sep-24	28°C	7.89	168	285	8.1	11	122	81	41	135	1.8	11.2	430	350	94	0.51	0.37	17.24	0.12	0.15	6.5	3.9	0.26	В
	Oct-24	31	7.69	216	356	7.8	15	144	94	50	150	2	12	1600	540	140	0.55	0.42	30.24	0.21	0.24	6.4	3	0.23	С
	Kalyani River at D/S Pantnagar Industrial Area, US Nagar																								
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
80	Jan-24	17°C	7.20	294	456	2.2	45.0	332	204	128	320	26.0	176.0	1600	540	140	0.31	0.68	66.19	0.18	0.78	45.4	11.5	1.08	Е
	Feb-24	19°C	6.93	418	628	1.8	49.0	356	217	139	335	28.0	192.0	920	540	170	0.38	0.54	88.3	0.32	0.54	52.6	13.2	1.21	Е
	Mar-24	22°C	7.13	462	702	1.6	51.0	363	222	141	325	30.0	208.0	1600	920	220	0.44	0.51	106.5	0.68	0.59	25.3	5.2	0.58	Е
<u> </u>	Apr-24	24°C	6.34	432	729	0.8	42.0	333	191	142	295	32.0	240.0	1600	540	170	0.48	0.57	106.5	1.35	0.68	49.1	9.2	1.16	Е
<u> </u>	May-24	27°C	7.53	505	754	Nil	58.0	384	218	166	320	36.0	272.0	1600	540	170	0.78	0.64	144.6	1.65	0.96	55.0	1.2	1.22	Е
<u> </u>	Jun-24	33°C	6.75	554	916	Nil	120.0	364	179	185	305	42.0	304.0	540	350	170	1.12	0.89	218.0	1.78	1.12	78.6	5.4	1.78	Е
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	Е
	Aug-24	29	6.81	416	690	2.4	74	320	206	114	295	34	192	1600	540	94	0.75	0.53	71.32	0.59	0.69	32.6	5.7	0.79	Е
	Sep-24	28°C	7.08	304	494	2.9	45	238	149	89	245	28	152	920	540	110	0.64	0.38	54.64	0.48	0.51	14.1	8.9	0.4	Е
	Oct-24	27	7.1	404	668	2.2	59	274	171	103	255	32	176	1600	920	170	0.75	0.44	74.56	0.78	0.65	19.8	10.2	0.52	Е
	River Kosi D/S near Khairna- Ranikhet Bridge, Almora																								
S.No.	Month	Temp	pН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	(DBU) Water Quality
81	Jan-24	14°C	7.55	159	230	8.2	21.0	234	120	114	182	2.2	6.0	120	94	2.0	0.15	0.09	55.63	0.22	0.28	5.4	1.9	0.15	В
<u> </u>	Feb-24	15°C	7.71	129	190	8.2	25.0	212	110	102	168	1.4	5.0	110	79	2.0	0.18	0.04	53.42	0.18	0.22	5.1	1.7	0.15	В
\vdash	Mar-24	17°C	7.29	163	240	8.0	17.0	226	118	108	190	2.0	6.0	120	94	2.0	0.15	0.06	50.41	0.20	0.18	5.4	2.0	0.16	В
<u> </u>	Apr-24	18°C	7.71	149	220	7.6	21.0	238	124	114	198	1.8	6.0	110	79	2.0	0.17	0.08	52.15	0.18	0.16	5.0	2.3	0.14	В
\vdash	May-24	20°C	7.63	161	240	7.2	24.0	230	120	110	192	2.0	6.0	170	94	4.5	0.18	0.08	58.42	0.22	0.26	4.7	2.1	0.13	В
<u> </u>	Jun-24	21°C	7.57	157	230	7.4	21.0	214	112	102	180	1.4	5.0	110	79	4.0	0.19	0.17	59.72	0.20	0.26	4.5	2.0	0.13	В
	Jul-24	30°C	6.81	424	714	3.1	66.0	310	195	115	265	30	160	920	240	110	0.93	0.74	102.53	0.86	0.73	30.9	7.2	0.76	Е
<u> </u>	Aug-24	20°C	7.54	159	230	7.4	19	218	112	106	176	1.8	5	110	79	4.5	0.18	0.11	63.42	0.28	0.32	6.3	2.5	0.20	В
	Sep-24	18°C	7.66	156	230	7.8	17	212	110	102	168	1.6	5	94	70	4.5	0.10	0.04	30.76	0.18	0.27	6.4	2.3	0.19	В
	Oct-24	18°C	7.78	163	240	8.0	19	220	114	104	178	1.8	5	140	110	6.1	0.10	0.04	31.14	0.18	0.27	6.5	2.1	0.19	В
													River Sar	yu D/S Near Bilon	a Bridge, Bageshwa	r									
S.No.	Month	Temp	рН	TDS (mg/l)	EC (μS/cm)	DO (mg/l)	Chloride (mg/l)	Hardness (mg/l)	Calcium (mg/l)	Magnesium (mg/l)	Alkalinity (mg/l)	BOD (mg/l)	COD (mg/l)	TC (MPN/100 ml)	FC (MPN/100 ml)	Fecal Steptococcss (MPN/100 ml)	Nitrate-N (mg/l)	Nitrite-N (mg/l)	Sulphate (mg/l)	Phosphate (mg/l)	Fluoride (mg/l)	Sodium (mg/l)	Potassium (mg/l)	SAR	Designated Best use (DBU) Water Quality Criteria
T		15°C	7.07		2.40		24.0	24.4	440	100								0.00	42.12	0.19	0.31	3.0	1.6	0.09	В
82	Jan-24	13.0	7.87	165	240	8.4	24.0	214	112	102	174	1.6	5.0	140	79	4.0	0.11	0.09	42.13	0.19	0.31	3.0	1.0	0.09	I

Mar-24	18°C	7.14	177	260	7.8	19.0	230	124	106	202	2.2	6.0	110	79	4.0	0.11	0.09	48.71	0.16	0.15	3.1	1.5	0.09	В
Apr-24	19°C	7.57	168	240	7.6	23.0	220	118	102	186	1.4	5.0	150	70	2.0	0.11	0.10	49.90	0.15	0.13	3.3	1.8	0.10	В
May-24	21°C	7.49	159	230	7.4	21.0	232	124	108	180	1.8	5.0	120	94	2.0	0.11	0.11	48.71	0.16	0.15	3.7	2.0	0.11	В
Jun-24	20°C	7.66	180	260	7.2	24.0	226	120	106	194	2.0	6.0	140	94	12	0.10	0.10	47.67	0.16	0.14	3.9	2.1	0.11	В
Jul-24	20°C	7.71	175	250	7.2	21.0	214	112	102	178	2.0	5.0	170	79	9.3	0.15	0.10	50.66	0.2	0.19	5.8	3.7	0.17	В
Aug-24	19°C	7.62	163	240	7.6	19	220	116	104	164	1.6	5	120	94	6.1	0.12	0.12	52.41	0.23	0.25	6.2	3.4	0.18	В
Sep-24	18°C	7.41	160	230	8	19	222	114	108	170	1.8	5	140	79	4.5	0.11	0.04	29.24	0.20	0.28	5.9	3.3	0.17	В
Oct-24	17°C	7.65	155	220	8	21	226	120	106	166	1.4	5	140	79	4.5	0.11	0.04	30.22	0.20	0.28	5.9	3.1	0.27	В