

**WATER QUALITY CHARACTERISTICS OF RIVER NANDAUR U/S SITARGANJ  
INDUSTRIAL AREA, US NAGAR**

Month	pH	BOD mg/L	COD mg/L	Conductivity $\mu$ mhas/cm	Temp $^{\circ}$ C	DO mg/L	TDS mg/L
<b>2022</b>							
Jan	7.3	3.2	10	310	10	6.5	210
Feb	7.40	3.0	9.2	350	21	6.8	234.5
Mar	7.30	3.1	14	290	25	6.2	206
Apr	7.30	3.0	12	320	28	6.5	214
May	River Dry						
June	River Dry						
July	7.20	3.2	14	350	28	6.1	234
Aug	7.60	3.2	11	172	28	6.4	111
Sept	8.20	3.6	13.76	157	27	6.2	103
Oct	7.80	3.2	12	176	26	7.80	116
Nov	8.40	2.8	11	203	24	6.8	136
Dec	River Dry						
<b>2021</b>							
Jan	River Dry						
Feb							
Mar							
Apr							
May	7.20	3.30	15	473	22	7.30	310
June	7.40	3.20	16	496	24	7.80	272
July	7.50	4.0	16	410	27	5.20	285
Aug	7.60	4.40	13	403	32	5.8	270
Sep	7.8	4.6	14.4	416		5.9	278
Oct	7.5	4.50	15	410		5.10	276
Nov	7.3	4.1	16	415		5.3	278.05
Dec	7.20	3.8	12.70	422	27	6.2	282.7
<b>2020</b>							
Jan	7.3	8.0	20	209	10	6.2	146
Feb	7.78	9.0	28	310	29	6.6	111
Mar	River Dry						
Apr	River Dry						
May	River Dry						
June	River Dry						
July	8.5	5.4	32	200	32	3.0	133
Aug	7.01	5.0	32	180	33	6.9	114
Sep	River Dry						
Oct	River Dry						
Nov	River Dry						
Dec	River Dry						
Average	7.6	6.9	28.0	224.8	26.0	5.7	126.0
Min-Max							
<b>2019</b>							
Jan	River Dry						
Feb	River Dry						
Mar	River Dry						
Apr	River Dry						
May	River Dry						
June	River Dry						

<b>July</b>	River Dry						
<b>Aug</b>	7.4	12.0	30	260	30	4.0	104
<b>Sep</b>	7.3	4.0	40	200	30	5.0	130
<b>Oct</b>	7.5	3.8	10	175.38	30	6.2	114
<b>Nov</b>	8.2	7.0	20	183	23	6.0	123
<b>Dec</b>	7.2	3.8	30	201	12	6.0	135
<b>Average</b>							
<b>Min-Max</b>							
<b>2018</b>							
<b>Jan</b>	River Dry						
<b>Feb</b>	River Dry						
<b>Mar</b>	River Dry						
<b>Apr</b>	River Dry						
<b>May</b>	River Dry						
<b>June</b>	River Dry						
<b>July</b>	7.6	4.2	21	490	28	6.4	308
<b>Aug</b>	7.3	2	12	360	28	7.4	238
<b>Sep</b>	7.4	3.2	14	320	27	7.2	206
<b>Oct</b>	7.2	6	14	360	26	6.8	238
<b>Nov</b>	7.6	4	14	340	23	6.8	222
<b>Dec</b>	River Dry						
<b>Average</b>	<b>7.42</b>	<b>3.88</b>	<b>15</b>	<b>374</b>	<b>26.4</b>	<b>6.92</b>	<b>242.4</b>
<b>Min-Max</b>	<b>(7.2-7.6)</b>	<b>(2-4.2)</b>	<b>(12-21)</b>	<b>(320-490)</b>	<b>(23-28)</b>	<b>(6.4-7.4)</b>	<b>(206-308)</b>

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Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
<b>2022</b>							
Jan	7.4	3.5	14	350	10	6.1	232
Feb	7.20	3.4	14	387	21	6.3	260
Mar	7.50	3.5	14	410	25	6.0	282
Apr	7.60	3.5	14	420	28	6.2	280
May	7.50	3.0	10	400	28	7.0	268
June	7.40	3.2	12	480	30	6.8	322
July	7.50	3.6	18	458	28	5.8	306
Aug	7.40	4.4	20	202	28	5.2	133
Sept	7.90	4.8	20.64	118	28	4.2	77
Oct	7.90	5.0	18	198	26	6.4	129
Nov	7.50	4.0	22	298	23	6.2	197
Dec	7.40	4.0	24.0	289	17	6.3	192
<b>2021</b>							
Jan	8.40	3.70	12	420	15	8.0	288
Feb	7.60	3.20	12	436	26	8.1	292
Mar	7.50	3.60	14	460	24	7.50	308
Apr	7.20	3.70	16	480	23	7.0	298
May	7.10	3.80	18	483	22	7.10	300
June	7.30	3.40	20	502	23.20	7.50	336
July	7.90	6.0	20	320	27	5.0	224
Aug	7.60	5.10	23.42	302	27	5.60	202
Sep	7.7	5	20	306		5.8	205
Oct	7.8	6.0	21	360		5.0	245
Nov	7.6	5.7	22	377		5.1	252.59
Dec	7.40	4	20	360	27.6	5.8	241.2
<b>2020</b>							
Jan	7.6	10	40	520	10	4.2	238
Feb	7.66	8.0	30	440	29	5.2	227
Mar	8.9	12	50	360	31	4	219
Apr	7.6	10	44			4.7	
May	7.9	8.0	48	305	41	5.4	216
June	8.2	8.6	48	270	38	2.6	175
July	8.4	6.0	45	170	31	2.9	116
Aug	7.7	5.6	18	260	33	6.3	168
Sep	7.87	2.5	14	200	32	4.8	167
Oct	7.5	4.8	16	390	33	5.4	250
Nov	7.6	4.6	18	400	19	5.2	308
Dec	7.5	4.5	19	430	13	5.0	325
Average	7.9	7.1	32.5	340.5	28.2	4.6	219.0
Min-Max	(7.5-8.9)	(2.5-12)	(14-50)	(170-520)	(10-41)	(2.6-6.3)	(116-325)
<b>2019</b>							
Jan	7.7	8	24	510	13	4.8	336
Feb	7.5	8	26	496	17	5	238
Mar	7.3	6.2	20	553	25	5.6	329
Apr	7.5	4.8	22	540	30	5.2	348
May	7.3	4.2	28	460	36	5.6	326
June	7.6	4	30	550	38	6	151
July	7.3	4	30	164	30	5.6	107

<b>Aug</b>	7.3	5.0	40.0	240	30	3.6	115
<b>Sep</b>	7.7	4.0	20	216	30	4.4	141
<b>Oct</b>	7.99	8.0	40	243	30	6.4	158
<b>Nov</b>	7.7	15	50	294	23	5.0	197
<b>Dec</b>	7.8	12	42	256	12	6.4	188
<b>Average</b>	<b>7.6</b>	<b>6.9</b>	<b>31.0</b>	<b>376.8</b>	<b>26.2</b>	<b>5.3</b>	<b>219.5</b>
<b>Min-Max</b>	<b>(7.3-7.99)</b>	<b>(4-15)</b>	<b>(20-50)</b>	<b>(164-553)</b>	<b>(12-38)</b>	<b>(3.6-6.4)</b>	<b>(107-348)</b>
<b>2018</b>							
<b>Jan</b>	7.6	4	24	350	18	8	236
<b>Feb</b>	8.1	8	46	390	23	7.6	253
<b>Mar</b>	7.7	2	20	360	26	7.2	229
<b>Apr</b>	7.38	7	18	270	27	6	166
<b>May</b>	7.46	8.2	40	370	30	6.2	236
<b>June</b>	River Dry						
<b>July</b>	7.8	8.2	34	550	27	6	336
<b>Aug</b>	7.1	6	30	510	27	6.8	336
<b>Sep</b>	7.3	8	30	470	27	6.2	316
<b>Oct</b>	7.89	10	42	510	26	5.8	332
<b>Nov</b>	7.9	10	32	410	23	5.6	266
<b>Dec</b>	7.6	8	24	450	17	5.2	302
<b>Average</b>	<b>7.62</b>	<b>7.21</b>	<b>30.90</b>	<b>421.81</b>	<b>24.6</b>	<b>6.41</b>	<b>273.45</b>
<b>Min-Max</b>	<b>(7.1-7.9)</b>	<b>(2-10)</b>	<b>(18-46)</b>	<b>(270-550)</b>	<b>(17-30)</b>	<b>(5.2-8)</b>	<b>(166-336)</b>