

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

Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
2024							
Jan	River Dry.						
Feb	7.49	1.6	8.0	222	17	8.2	146
Mar	7.86	2.0	10.0	353	20	7.6	236
Apr	River Dry.						
May	River Dry.						
June	River Dry.						
July	7.84	1.6	8	184	29	8.1	105
Aug	7.91	1.8	12	228	28	8	139
Sept	7.84	1.5	8	245	29	8.4	148
Oct	8.11	1.4	8.8	272	30	8	166
2023							
Jan	7.70	1.8	8.0	205	12	9.2	115
Feb	River Dry						
Mar	River Dry						
Apr	River Dry						
May	River Dry						
June	7.70	2.2	12.0	220	31	8.0	152
July	7.80	1.6	8.0	165	28	8.2	107
Aug	7.50	1.8	8.0	194	29	7.8	112
Sept	7.50	2.0	8.0	193	30	7.4	115
Oct	7.60	2.2	12.0	210	26	7.2	142
Nov	7.90	2.0	8.0	194	25	7.4	131
2022							
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						
2021							
Jan	River Dry						
Feb	River Dry						
Mar	River Dry						
Apr	River Dry						
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

2020							
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							
2019							
Jan	River Dry						
Feb	River Dry						
Mar	River Dry						
Apr	River Dry						
May	River Dry						
June	River Dry						
July	River Dry						
Aug	7.4	12.0	30	260	30	4.0	104
Sep	7.3	4.0	40	200	30	5.0	130
Oct	7.5	3.8	10	175.38	30	6.2	114
Nov	8.2	7.0	20	183	23	6.0	123
Dec	7.2	3.8	30	201	12	6.0	135
Average							
Min-Max							
2018							
Jan	River Dry						
Feb	River Dry						
Mar	River Dry						
Apr	River Dry						
May	River Dry						
June	River Dry						
July	7.6	4.2	21	490	28	6.4	308
Aug	7.3	2	12	360	28	7.4	238
Sep	7.4	3.2	14	320	27	7.2	206
Oct	7.2	6	14	360	26	6.8	238
Nov	7.6	4	14	340	23	6.8	222
Dec	River Dry						
Average	7.42	3.88	15	374	26.4	6.92	242.4
Min-Max	(7.2-7.6)	(2-4.2)	(12-21)	(320-490)	(23-28)	(6.4-7.4)	(206-308)

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Month	pH	BOD mg/L	COD mg/L	Conductivity µmhos/cm	Temp °C	DO mg/L	TDS mg/L
Jan	7.40	2.2	12.0	248	14	8.0	165
Feb	7.81	2.4	12.0	352	17	7.8	233
Mar	7.89	2.8	16.0	411	20	6.9	274
Apr	7.95	2.6	14.0	398	28	7.2	232
May	7.92	2.8	16.0	334	35	7.0	222
June	7.88	3.0	20.0	412	35	6.6	247
July	7.62	2.8	16	228	35	7.2	134
Aug	7.72	2.8	20	264	32	7.1	152
Sept	7.79	2.4	16	328	29	7.8	194
Oct	7.83	2.8	17.6	370	31	7.5	224
2023							
Jan	7.90	2.6	16.0	280	12	8.6	170
Feb	7.60	2.8	24.0	309	19	8.4	205
Mar	7.40	2.7	24.0	336	21	8.2	242
Apr	7.70	2.8	24.0	304	22	7.4	208
May	7.40	3.0	28.0	328	28	7.0	225
June	7.90	2.8	24.0	263	32	7.2	186
July	7.50	2.5	16.0	183	29	7.3	118
Aug	7.70	2.7	16.0	218	31	7.2	146
Sept	7.60	2.8	20.0	196	32	7.0	119
Oct	7.70	2.9	20.0	235	28	6.9	158
Nov	7.70	2.7	16.0	305	26	7.1	197
2022							
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
2021							
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

2020							
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)
2019							
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
Aug	7.3	5.0	40.0	240	30	3.6	115
Sep	7.7	4.0	20	216	30	4.4	141
Oct	7.99	8.0	40	243	30	6.4	158
Nov	7.7	15	50	294	23	5.0	197
Dec	7.8	12	42	256	12	6.4	188
Average	7.6	6.9	31.0	376.8	26.2	5.3	219.5
Min-Max	(7.3-7.99)	(4-15)	(20-50)	(164-553)	(12-38)	(3.6-6.4)	(107-348)
2018							
Jan	7.6	4	24	350	18	8	236
Feb	8.1	8	46	390	23	7.6	253
Mar	7.7	2	20	360	26	7.2	229
Apr	7.38	7	18	270	27	6	166
May	7.46	8.2	40	370	30	6.2	236
June	River Dry						
July	7.8	8.2	34	550	27	6	336
Aug	7.1	6	30	510	27	6.8	336
Sep	7.3	8	30	470	27	6.2	316
Oct	7.89	10	42	510	26	5.8	332
Nov	7.9	10	32	410	23	5.6	266
Dec	7.6	8	24	450	17	5.2	302
Average	7.62	7.21	30.90	421.81	24.6	6.41	273.45
Min-Max	(7.1-7.9)	(2-10)	(18-46)	(270-550)	(17-30)	(5.2-8)	(166-336)