

**WATER QUALITY CHARACTERISTICS OF RIVER PILAKHAR AFTER BILASPUR,
UDHAMSINGH NAGAR**

Month	pH	BOD mg/L	COD mg/L	Conductivity µmhas/cm	Temp °C	DO mg/L	TDS mg/L
2024							
Jan	7.50	2.0	14.0	484	14	7.4	325
Feb	7.34	2.4	18.0	470	18	7.1	312
Mar	7.42	2.6	20.0	492	20	6.8	325
Apr	7.56	2.9	22.0	492	22	6.4	298
May	7.71	2.6	20.0	551	29	6.8	368
June	7.55	2.8	20.0	579	30	6.2	356
July	7.23	2.4	16.0	436	28	6.8	261
Aug	7.52	2.6	16.0	419	27	6.6	254
Sept	7.25	2.2	14.4	358	27	6.8	224
Oct	7.36	2.5	16.0	389	25	6.2	235
2023							
Jan	7.60	10.2	64.0	690	12	3.2	535
Feb	7.40	12.0	96.0	820	18	2.6	545
Mar	7.30	10.0	88.0	918	23	2.9	595
Apr	7.40	10.0	92.0	855	22	2.4	574
May	7.50	8.0	84.0	765	31	2.8	518
June	7.80	7.0	72.0	836	31	3.3	542
July	7.50	4.6	40.0	456	28	5.4	296
Aug	7.60	3.0	20.0	370	29	6.0	183
Sept	7.30	2.8	20.0	263	28	6.2	162
Oct	7.40	2.6	20.0	221	24	6.1	145
Nov	7.20	2.4	16.0	262	24	6.4	168
2022							
Jan	7.4	9.2	28	390	8	4.5	269
Feb	7.40	10	30	400	21	6	268
Mar	7.30	9.4	32	440	23	4.9	299
Apr	7.50	8.6	30	420	28	6.5	290
May	7.40	4.0	24	470	28	6.7	316
June	7.0	10	40	600	30	4.5	402
July	7.20	9.6	36	560	28	4.8	375
Aug	7.30	11	44	512	27	4.6	340
Sept	7.60	12	47.6	363	27	3.0	239
Oct	7.60	11	40	442	25	2.8	292
Nov	7.70	8.0	36	559	18	2.8	371
Dec	7.30	9.0	44.0	739	15	2.9	491
2021							
Jan	8.20	3.80	24	770	13	6.0	503
Feb	7.50	5.10	16	750	21	7.80	503
Mar	7.60	5.20	20	800	22	7.50	536
Apr	7.50	5.80	19	813	22	7.10	516
May	7.20	5.30	17	783	21	7.30	502
June	7.50	5.20	20	860	24	7.80	558
July	7.7	12.0	40	430	28	3.90	289
Aug	7.50	9.30	26	421	31	4.10	282
Sep	7.4	9.6	28	426		3.8	285
Oct	7.6	13.50	41	430	31	4.0	293
Nov	7.4	14.5	33	450		4.3	301.5
Dec	7.30	12	30	448	27	4.8	300

2020							
Jan	7.5	6.0	60	420	10	7.2	226
Feb	7.4	8.0	70	430	30	6.6	293
Mar	7.6	7	36	320	31	5.6	265
Apr	7.4	4	24			6.2	
May	Sample not collected due to COVID-19						
June							
July	8.20	5.1	16	320	33	6.5	208
Aug	8.10	5.0	16	325	32	5.9	228
Sep	7.90	9.2	40	580	31	4.4	387
Oct	7.2	8.6	42	340	19	4.2	228
Nov	7.1	8.6	42	351	9	4.0	240
Average	7.6	6.8	38.4	385.8	24.4	5.6	259.4
Min-Max	(7.1 -8.2)	(4-9.2-70)	(16-70)	(320-580)	(9-33)	(4-7.2)	(208-387)
2019							
Jan	7	8	28	400	14	6.80	254
Feb	7.3	8	26	210	15	6.6	285
Mar	7.7	10	30	440	19	6	178
Apr	7.5	7.2	32	420	32	5.6	319
May	7.3	7.4	36	480	38	5.8	342
June	7.5	6	30	590	37	4.8	265
July	7.3	8	20	462	30	5.6	309
Aug	7.6	6.0	20	320	30	4.4	219
Sep	7.5	4.0	30	473	29	4.2	308
Oct	7.9	3.6	40	207	30	4.8	135
Nov	7.4	6.0	60	268	21	4.6	145
Dec	7.6	8.0	28	491	12	5.4	329
Average	7.5	6.7	32.0	388.2	26.8	5.4	250.8
Min-Max	(7-7.9)	(3.6-10)	(20-60)	(207-590)	(14-38)	(4.2-6.8)	(135-342)
2018							
Jan	7.6	3.2	30	520	18.6	6.8	344
Feb	7.7	4.8	42	590	22.6	5.8	386
Mar	7.35	14	80	610	27	3.6	317
Apr	7.54	16	40	420	28	3	178
May	7.4	10	38	320	29	4.2	202
June	7.2	8	30	310	30	4.8	192
July	7.3	10	38	220	29	5.2	188
Aug	7.5	3.2	18	280	27	7.2	180
Sep	7.4	6.2	20	310	27	6.8	198
Oct	7.5	8	30	470	26	5.2	306
Nov	7.8	8	30	430	22	6.8	284
Dec	7.4	10	32	420	17	6.2	277
Average	7.47	8.45	35.66	408.33	25.26	5.46	254.33
Min-Max	(7.2-7.8)	(3.2-16)	(18-80)	(220-610)	(17-30)	(3-7.2)	(178-386)