

Quality of Water of Polluted River stretches in Punjab for the month of August, 2023

Satluj : Roop Nagar to Harike Bridge : Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond μ s/Cm	T.Coli MPN/100ml	F. Coli MPN/100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBU
1	Ropar Head-Works	1019	10.08.2023	SW 82	ZO Lab LDH	7.6	8.1	BDL	240	490	170	BDL	0.17	0.15	B
2	River Satluj D/S of Rishab- Paper Mills	1293	10.08.2023	SW 83	ZO Lab LDH	7.3	7.9	BDL	260	540	140	BDL	0.18	0.17	C
3	River Satluj U/S Buddha Nallah	1690	11.08.2023	SW 87	ZO Lab LDH	8.0	6.9	BDL	259	840	310	0.070	0.18	0.24	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.08.2023	SW 89	ZO Lab LDH	7.6	1.4	20	505	2,20,000	79,000	0.210	2.08	0.46	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.08.2023	SW 91	ZO Lab LDH /HO Lab PAT	7.6	7.6	4.5	305	17,000	4900	0.028	0.34	0.23	D
6	River Satluj at D/s East Bein	1381	14.08.2023	SW 93	ZO Lab LDH /HO Lab PAT	7.8	7.8	4.0	300	17,000	7900	0.028	0.38	0.25	D
7	River Satluj at Harike	1022	14.08.2023	SW 94	ZO Lab LDH /HO Lab PAT	7.3	7.0	BDL	288	700	270	0.011	0.34	0.22	C

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	COD mg/l	Turb NTU	TSS mg/l	TDS mg/l	FDS mg/l	Cl mg/l	SO ₄ mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Alkn mg/l	P.Alkn mg/l	AmnN mg/l	NO ₃ -N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	10.08.2023	SW 82	ZO Lab LDH	BDL	85	143	153	130	13	14	120	28.8	11.7	78	BDL	BDL	1.2	BDL	BDL	0.29	4.4	2.6
2	River Satluj D/S of Rishab- Paper Mills	1293	10.08.2023	SW 83	ZO Lab LDH	BDL	90	156	149	135	12	12	112	26.4	11.2	80	BDL	BDL	1.3	BDL	BDL	0.20	4.5	2.6
3	River Satluj U/S Buddha Nallah	1690	11.08.2023	SW 87	ZO Lab LDH	BDL	130	256	170	149	18	19	128	32.8	11.2	100	BDL	1.4	1.6	2.0	0.24	0.19	4.8	3.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.08.2023	SW 89	ZO Lab LDH	108	150	254	334	282	58	32	168	38.4	17.5	160	BDL	8.4	2.8	11.8	1.6	0.25	62	9.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.08.2023	SW 91	ZO Lab LDH	20	115	212	189	172	12	15	130	35.2	10.2	112	BDL	1.1	1.7	1.7	0.25	0.18	8.8	4.2
6	River Satluj at D/s East Bein	1381	14.08.2023	SW 93	ZO Lab LDH	18	130	222	182	165	14	13	134	36	10.7	120	BDL	0.8	1.8	1.3	0.43	0.20	10	4.7
7	River Satluj at Harike	1022	14.08.2023	SW 94	ZO Lab LDH	8	110	194	179	162	13	10	112	25.6	11.7	116	BDL	1.1	1.5	1.7	0.22	0.18	8.3	4.7

Note. 1. BDL means Below Method Detection Limit

2. DBU means Designated Best Use (Class-A,B,C,D & E)

3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)

4. U/s means Upstream , D/s means Downstream

Quality of Water of Polluted River stretches in Punjab for the month of August, 2023
Ghaggar: Mubarkpur to Sardulgarh: Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Sample No.	Sample Collected & Analyzed by	pH	DO mg/l	BOD mg/l	Cond μ s/Cm	T.Coli MPN/100ml	F. Coli MPN/100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBDU
1	Ghaggar at Mubarikpur Rest House	1023	3.8.2023	SW 2005	H/o Lab Patiala	7.9	5.9	7	441	17000	1700	1.77	0.42	0.35	D
2	Ghaggar at Bhankarpur	1295	3.8.2023	SW 2006	H/o Lab Patiala	7.8	4.6	10	693	21000	2100	2.02	0.40	0.49	D
3	Ghaggar at Chattbir	1698	3.8.2023	SW 2007	H/o Lab Patiala	7.6	3.6	11	660	24000	2700	1.89	0.29	0.48	E
4	Ghaggar at U/s Jharmal Nadi	1702	3.8.2023	SW 2008	H/o Lab Patiala	7.7	4.5	10	572	21000	2100	2.14	0.35	0.42	D
5	Ghaggar at D/s Jharmal Nadi	1701	3.8.2023	SW 2009	H/o Lab Patiala	7.3	4.1	12	631	22000	2600	2.18	0.12	0.47	D
6	Ghaggar at U/s Dhakanshu Nallah	1699	3.8.2023	SW 2011	H/o Lab Patiala	7.4	4.7	11	592	21000	2100	2.13	0.17	0.44	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	3.8.2023	SW 2012	H/o Lab Patiala	7.6	3.8	12	658	24000	2700	2.18	0.29	0.49	E
8	Ghaggar at Rattanheri	1473	4.8.2023	SW 2019	H/o Lab Patiala	7.6	4.2	13	721	24000	2700	2.02	0.31	0.52	D
9	Ghaggar before mixing with Sagar Para drain (U/s Sagar Para Drain)	4159	4.8.2023	SW 2020	H/o Lab Patiala	7.4	4.0	11	693	24000	2700	2.06	0.30	0.50	D
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	4.8.2023	SW 2021	H/o Lab Patiala	7.8	3.4	14	765	28000	3200	2.09	0.44	0.58	E
11	Ghaggar at Khanauri	1024	4.8.2023	SW 2024	H/o Lab Patiala	7.9	3.8	15	789	24000	2700	2.06	0.57	0.63	E
12	Ghaggar at Moonak	1703	4.8.2023	SW 2026	H/o Lab Patiala	7.7	3.3	17	841	28000	3800	2.11	0.58	0.69	E
13	Ghaggar at U/s Sardulgarh	1705	7.8.2023	SW 2027	H/o Lab Patiala	7.6	6.2	8	381	17000	1400	1.33	0.28	0.28	D
14	Ghaggar at D/s Sardulgarh	1704	7.8.2023	SW 2028	H/o Lab Patiala	7.6	5.3	9	483	17000	1700	1.41	0.27	0.32	D

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1	Ghaggar at Mubarikpur Rest House	1023	3.8.2023	SW 2005	H/o Lab Patiala	28	510	710	287	244	30	8	102	29	7	219	BDL	9.3	0.8	13.0	1.3	0.7	41	18
2	Ghaggar at Bhankarpur	1295	3.8.2023	SW 2006	H/o Lab Patiala	40	560	795	451	385	70	12	233	72	13	251	BDL	11.5	1.6	16.1	1.2	1.0	71	32
3	Ghaggar at Chattbir	1698	3.8.2023	SW 2007	H/o Lab Patiala	48	600	815	431	368	65	15	230	64	17	242	BDL	11.7	1.6	16.4	1.3	1.0	66	29
4	Ghaggar at U/s Jharmal Nadi	1702	3.8.2023	SW 2008	H/o Lab Patiala	36	330	321	373	318	44	11	159	47	10	238	BDL	11.5	1.1	16.1	0.8	0.8	62	27
5	Ghaggar at D/s Jharmal Nadi	1701	3.8.2023	SW 2009	H/o Lab Patiala	49	370	367	410	349	53	13	179	52	12	252	BDL	11.6	1.2	16.2	0.9	0.9	67	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	3.8.2023	SW 2011	H/o Lab Patiala	39	395	398	386	329	47	11	165	48	11	243	BDL	11.4	09	15.9	0.9	0.8	63	28
7	Ghaggar at D/s Dhakanshu Nallah	1700	3.8.2023	SW 2012	H/o Lab Patiala	47	400	410	429	365	59	14	195	57	13	256	BDL	11.7	1.2	16.3	1.0	1.0	70	31
8	Ghaggar at Rattanheri	1473	4.8.2023	SW 2019	H/o Lab Patiala	49	310	330	468	399	69	20	248	68	19	262	BDL	12.2	1.6	17.1	1.8	1.1	73	33
9	Ghaggar before mixing with Sagar Para drain (U/s Sagar Para Drain)	4159	4.8.2023	SW 2020	H/o Lab Patiala	45	330	345	451	384	65	18	225	62	17	258	BDL	12.0	1.6	16.8	1.6	1.0	71	32
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	4.8.2023	SW 2021	H/o Lab Patiala	53	360	361	498	424	72	23	265	73	20	273	BDL	11.7	1.9	16.4	1.9	1.3	78	38
11	Ghaggar at Khanauri	1024	4.8.2023	SW 2024	H/o Lab Patiala	60	340	358	468	398	77	26	279	75	22	276	BDL	12.6	2.0	17.6	1.8	1.3	79	38
12	Ghaggar at Moonak	1703	4.8.2023	SW 2026	H/o Lab Patiala	69	390	398	547	465	83	28	302	81	24	291	BDL	12.9	2.2	18.1	2.2	1.4	84	41
13	Ghaggar at U/s Sardulgarh	1705	7.8.2023	SW 2027	H/o Lab Patiala	31	110	88	248	212	20	10	85	19	9	209	BDL	9.2	0.8	12.9	1.1	0.6	28	13
14	Ghaggar at D/s Sardulgarh	1704	7.8.2023	SW 2028	H/o Lab Patiala	38	130	110	314	268	33	18	138	32	14	218	BDL	10.6	1.0	14.8	1.3	0.9	38	19

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