

Quality of Water of Polluted River stretches in Punjab for the month of August, 2024

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 µs/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	09.08.2024	SW 198	ZO Lab LDH	7.4	7.8	BDL	283	400	170	BDL	0.13	0.13	B
2	River Satluj D/S of Rishab- Paper Mills	1293	09.08.2024	SW 199	ZO Lab LDH	7.4	8.1	1.4	298	700	260	BDL	0.11	0.26	C
3	River Satluj U/S Buddha Nallah	1690	12.08.2024	SW 202	ZO Lab LDH	7.4	6.6	1.2	354	1400	390	BDL	0.23	0.39	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12.08.2024	SW 204	ZO Lab LDH	7.3	5.4	14	370	1,20,000	38,000	0.028	0.35	0.74	D
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.08.2024	SW 206	ZO Lab LDH	7.1	5.0	2.4	368	79,000	27,000	0.001	0.48	0.35	D
6	River Satluj at D/s East Bein	1381	14.08.2024	SW 207	ZO Lab LDH	6.9	4.4	3.4	374	1,70,000	70,000	BDL	0.20	0.22	D
7	River Satluj at Harike	1022	14.08.2024	SW 208	ZO Lab LDH	7.4	5.8	1.8	288	3500	940	BDL	0.15	0.20	C

S.N.	Point of Sample Collection	Code	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	SW 198	ZO Lab LDH	BDL	130	78	180	154	20	40	112	30.4	8.7	82	BDL	BDL	0.7	BDL	BDL	BDL	3.2	1.3
2	River Satluj D/S of Rishab- Paper Mills	1293	SW 199	ZO Lab LDH	14	140	94	186	163	21	44	110	28	9.7	76	BDL	BDL	0.7	BDL	BDL	BDL	2.6	1.1
3	River Satluj U/S Buddha Nallah	1690	SW 202	ZO Lab LDH	12	135	112	224	189	31	46	116	38.4	4.9	92	BDL	BDL	1.2	BDL	0.31	BDL	5.8	1.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW 204	ZO Lab LDH	64	150	136	238	205	26	51	130	36	9.7	108	BDL	2.8	1.5	4.2	0.47	0.27	9.2	2.3
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW 206	ZO Lab LDH	22	140	142	219	190	32	41	118	29.6	10.7	104	BDL	1.4	2.3	2.0	0.35	0.22	11.9	2.5
6	River Satluj at D/s East Bein	1381	SW 207	ZO Lab LDH	28	180	182	232	200	37	47	120	31.2	10.2	120	BDL	2.2	2.5	3.3	0.45	0.23	5.1	1.5
7	River Satluj at Harike	1022	SW 208	ZO Lab LDH	18	160	144	173	148	21	21	106	26.4	9.7	102	BDL	BDL	1.7	BDL	0.22	0.21	3.5	1.2

- 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, 2024 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	7.8.2024	SW 53	H/o Lab Patiala	7.5	7	7	465	17000	1700	1.77	0.19	0.39	D
2	Ghaggar at Bhankarpur	1295	7.8.2024	SW 54	H/o Lab Patiala	7.5	4	12	815	22000	2100	2.18	0.21	0.70	D
3	Ghaggar at Chattbir	1698	7.8.2024	SW 55	H/o Lab Patiala	7.3	4	16	841	22000	2600	2.25	0.11	0.75	D
4	Ghaggar at U/s Jharmal Nadi	1702	7.8.2024	SW 56	H/o Lab Patiala	7.5	4.3	12	631	21000	2600	1.88	0.24	0.58	D
5	Ghaggar at D/s Jharmal Nadi	1701	7.8.2024	SW 57	H/o Lab Patiala	7.6	3.9	17	771	24000	3400	2.14	0.31	0.70	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	7.8.2024	SW 59	H/o Lab Patiala	7.7	4.2	13	635	21000	2600	2.02	0.36	0.60	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	7.8.2024	SW 60	H/o Lab Patiala	7.6	4	17	847	24000	3400	2.24	0.31	0.78	D
8	Ghaggar at Rattanheri	1473	16.8.2024	SW 69	H/o Lab Patiala	7.8	3.2	19	917	28000	3800	2.20	0.44	0.75	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16.8.2024	SW 70	H/o Lab Patiala	7.8	3.5	17	881	28000	3800	2.19	0.44	0.73	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16.8.2024	SW 71	H/o Lab Patiala	7.9	3.1	20	1007	28000	3900	2.32	0.56	0.80	E
11	Ghaggar at Khanauri	1024	16.8.2024	SW 74	H/o Lab Patiala	7.6	3.6	21	941	28000	3800	2.27	0.32	0.82	E
12	Ghaggar at Moonak	1703	16.8.2024	SW 76	H/o Lab Patiala	7.7	3.0	23	1061	35000	4600	2.33	0.39	0.84	E
13	Ghaggar at U/s Sardulgarh	1705	14.8.2024	SW 66	H/o Lab Patiala	7.4	6.8	7	403	17000	1700	1.15	0.18	0.26	D
14	Ghaggar at D/s Sardulgarh	1704	14.8.2024	SW 67	H/o Lab Patiala	7.5	4.8	9	569	21000	2100	1.41	0.26	0.37	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 53	H/o Lab Patiala	35	510	543	298	295	33	7	103	31	6	235	BDL	9.3	1.0	13.0	1.0	1.0	41	9
2	Ghaggar at Bhankarpur	1295	SW 54	H/o Lab Patiala	81	470	515	531	458	76	16	294	83	21	287	BDL	10.7	1.0	15.0	1.3	1.1	86	37
3	Ghaggar at Chattbir	1698	SW 55	H/o Lab Patiala	83	500	473	543	463	80	19	304	85	22	292	BDL	11.2	1.1	15.7	1.3	1.2	90	40
4	Ghaggar at U/s Jharmal Nadi	1702	SW 56	H/o Lab Patiala	56	400	338	411	351	49	11	200	52	17	271	BDL	12.1	1.2	16.9	1.2	1.1	61	27
5	Ghaggar at D/s Jharmal Nadi	1701	SW 57	H/o Lab Patiala	74	440	393	499	427	76	19	271	77	19	277	BDL	12.3	1.3	17.2	1.2	1.2	81	31
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 59	H/o Lab Patiala	58	380	345	413	353	54	13	214	56	18	248	BDL	12.1	1.1	16.9	1.2	1.0	68	24
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 60	H/o Lab Patiala	76	450	382	551	471	86	24	305	84	23	294	BDL	12.4	1.4	17.4	1.3	1.3	90	35
8	Ghaggar at Rattanheri	1473	SW 69	H/o Lab Patiala	80	300	251	597	510	89	31	361	90	33	306	BDL	12.7	1.5	17.8	1.3	1.3	96	42
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 70	H/o Lab Patiala	78	290	243	577	493	84	27	341	87	30	300	BDL	12.6	1.4	17.6	1.3	1.2	93	39
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 71	H/o Lab Patiala	89	340	258	654	558	100	35	403	102	36	324	BDL	12.5	1.7	17.5	1.4	1.3	107	46
11	Ghaggar at Khanauri	1024	SW 74	H/o Lab Patiala	83	330	263	613	523	90	32	369	93	33	310	BDL	12.6	1.5	17.6	1.3	1.3	100	43
12	Ghaggar at Moonak	1703	SW 76	H/o Lab Patiala	90	360	298	688	506	103	40	446	106	44	331	BDL	12.9	1.9	18.1	1.4	1.4	113	49
13	Ghaggar at U/s Sardulgarh	1705	SW 66	H/o Lab Patiala	37	60	45	263	224	28	9	97	27	7	211	BDL	12.0	1.0	16.8	1.1	1.0	26	11
14	Ghaggar at D/s Sardulgarh	1704	SW 67	H/o Lab Patiala	46	70	64	371	319	44	16	194	51	16	253	BDL	12.8	1.1	17.9	1.1	1.0	45	17

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