

Quality of Water of Polluted River stretches in Punjab for the month of February, 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	02.02.24	SW-371	ZO Lab LDH	8.2	8.3	BDL	337	920	280	BDL	0.54	0.33	C
2	River Satluj D/S of Rishab- Paper Mills	1293	02.02.24	SW-372	ZO Lab LDH	7.9	8.5	BDL	385	1200	320	BDL	0.72	0.26	C
3	River Satluj U/S Buddha Nallah	1690	05.02.24	SW-393	ZO Lab LDH	8.2	7.7	1.8	404	940	320	0.128	0.73	0.31	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	05.02.24	SW-395	ZO Lab LDH	7.6	1.4	24	841	17,00,000	7,00,000	0.160	2.92	0.48	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	06.02.24	SW-397	ZO Lab LDH	7.5	4.4	8.4	556	40,000	17,000	0.064	2.24	0.35	D
6	River Satluj at D/s East Bein	1381	06.02.24	SW-398	ZO Lab LDH	7.5	3.9	11	603	63,000	26,000	0.066	2.58	0.44	E
7	River Satluj at Harike	1022	06.02.24	SW-399	ZO Lab LDH	7.9	8.1	2.7	252	4300	1200	0.065	0.48	0.26	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-371	ZO Lab LDH	BDL	28	18	216	190	19	51	126	32.8	10.7	104	BDL	BDL	3.2	BDL	BDL	0.27	14	3.2
2	River Satluj D/S of Rishab- Paper Mills	1293	SW-372	ZO Lab LDH	BDL	32	21	232	206	33	59	118	30.4	10.2	88	BDL	BDL	3.1	BDL	BDL	0.24	18	5.9
3	River Satluj U/S Buddha Nallah	1690	SW-393	ZO Lab LDH	12	36	27	252	223	32	48	140	36	12.2	108	BDL	1.6	4.4	2.8	0.23	0.28	20	4.2
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW-395	ZO Lab LDH	92	110	89	521	412	122	64	204	50.4	19.0	184	BDL	6.4	5.2	8.8	2.2	0.39	96	11.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW-397	ZO Lab LDH	40	80	56	380	315	77	60	164	43.2	13.6	130	BDL	3.2	3.8	4.4	0.8	0.30	66	8.9
6	River Satluj at D/s East Bein	1381	SW-398	ZO Lab LDH	56	90	62	412	334	88	56	168	44	14.1	156	BDL	3.3	4.2	4.6	0.9	0.36	77	12.7
7	River Satluj at Harike	1022	SW-399	ZO Lab LDH	18	65	58	157	140	16	27	98	24	9.2	86	BDL	1.0	2.1	1.6	0.22	0.19	11	3.1

- 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 February, 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	2.2.2024	SW 2807	H/o Lab Patiala	7.4	8.4	7	481	1700	1700	2.01	0.14	0.41	D
2	Ghaggar at Bhankarpur	1295	2.2.2024	SW 2808	H/o Lab Patiala	7.4	3.3	12	797	21000	2200	2.16	0.16	0.62	E
3	Ghaggar at Chattbir	1698	2.2.2024	SW 2809	H/o Lab Patiala	7.4	3.5	13	827	24000	2800	2.07	0.18	0.65	E
4	Ghaggar at U/s Jharmal Nadi	1702	2.2.2024	SW 2810	H/o Lab Patiala	7.3	4.3	8	610	21000	2100	1.84	0.12	0.50	D
5	Ghaggar at D/s Jharmal Nadi	1701	2.2.2024	SW 2811	H/o Lab Patiala	7.2	2.8	15	751	24000	3400	2.10	0.12	0.61	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	2.2.2024	SW 2813	H/o Lab Patiala	7.3	4.0	12	635	21000	2100	1.78	0.11	0.56	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	2.2.2024	SW 2814	H/o Lab Patiala	7.2	2.8	15	832	24000	3400	2.28	0.12	0.71	E
8	Ghaggar at Rattanheri	1473	6.2.2024	SW 2821	H/o Lab Patiala	7.4	2.4	15	881	28000	3200	2.36	0.19	0.75	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	6.2.2024	SW 2822	H/o Lab Patiala	7.4	2.0	13	831	28000	3200	2.15	0.19	0.73	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	6.2.2024	SW 2223	H/o Lab Patiala	7.5	2.2	17	951	35000	4600	2.36	0.24	0.76	E
11	Ghaggar at Khanauri	1024	6.2.2024	SW 2826	H/o Lab Patiala	7.5	2.8	15	914	35000	3900	2.10	0.26	0.78	E
12	Ghaggar at Moonak	1703	6.2.2024	SW 2828	H/o Lab Patiala	7.6	2.1	19	991	35000	4600	2.18	0.33	0.82	E
13	Ghaggar at U/s Sardulgarh	1705	8.2.2024	SW 2874	H/o Lab Patiala	7.3	5.9	8	472	17000	1700	1.45	0.90	0.32	D
14	Ghaggar at D/s Sardulgarh	1704	8.2.2024	SW 2875	H/o Lab Patiala	7.5	4.8	10	577	21000	2100	1.83	0.20	0.49	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 2807	H/o Lab Patiala	34	410	403	312	267	36	8	136	38	10	235	BDL	9.3	1.0	13.0	1.1	0.8	54	9
2	Ghaggar at Bhankarpur	1295	SW 2808	H/o Lab Patiala	62	460	431	518	441	84	13	287	82	20	278	BDL	10.9	1.1	15.3	1.0	1.1	84	37
3	Ghaggar at Chattbir	1698	SW 2809	H/o Lab Patiala	70	430	429	538	458	86	18	306	86	22	285	BDL	12.1	1.3	16.9	1.3	1.1	83	41
4	Ghaggar at U/s Jharmal Nadi	1702	SW 2810	H/o Lab Patiala	49	350	358	396	338	50	12	181	51	13	259	BDL	11.5	1.2	16.1	1.3	1.2	57	27
5	Ghaggar at D/s Jharmal Nadi	1701	SW 2811	H/o Lab Patiala	76	370	368	491	421	76	16	263	77	17	273	BDL	12.1	1.3	16.9	1.4	1.3	78	30
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 2813	H/o Lab Patiala	54	210	243	413	468	57	14	215	61	15	251	BDL	11.4	1.3	16.0	1.3	1.4	60	26
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 2814	H/o Lab Patiala	73	350	317	543	466	84	20	296	82	22	291	BDL	12.3	1.4	17.2	1.4	1.2	90	38
8	Ghaggar at Rattanheri	1473	SW 2821	H/o Lab Patiala	71	360	349	573	491	87	24	314	91	21	296	BDL	12.7	2.0	17.8	2.2	1.7	96	41
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 2822	H/o Lab Patiala	65	300	327	541	462	80	22	302	88	20	287	BDL	12.6	1.8	17.6	2.2	1.7	86	40
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 2223	H/o Lab Patiala	84	370	373	621	406	94	30	347	96	26	321	BDL	12.1	2.2	16.9	2.5	1.9	101	46
11	Ghaggar at Khanauri	1024	SW 2826	H/o Lab Patiala	69	360	369	597	510	88	27	365	93	32	303	BDL	12.9	2.1	18.1	2.1	2.3	92	49
12	Ghaggar at Moonak	1703	SW 2828	H/o Lab Patiala	89	380	377	645	553	93	30	406	100	38	327	BDL	13.3	2.3	18.6	2.4	2.4	101	51
13	Ghaggar at U/s Sardulgarh	1705	SW 2874	H/o Lab Patiala	38	30	38	310	265	38	8	130	37	9	219	BDL	9.3	0.8	13.0	1.2	1.0	38	19
14	Ghaggar at D/s Sardulgarh	1704	SW 2875	H/o Lab Patiala	53	50	53	375	321	41	14	158	42	13	262	BDL	10.2	1.0	14.3	1.3	1.1	53	24

- Note. 1. BDL means Below Method Detection Limit**
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