

Quality of Water of Polluted River stretches in Punjab for the month of January, 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	11.01.24	SW 328	ZO Lab LDH	8.3	8.0	BDL	312	540	140	BDL	0.39	0.18	C
2	River Satluj D/S of Rishab- Paper Mills	1293	11.01.24	SW 329	ZO Lab LDH	7.8	7.9	1.2	345	920	170	BDL	0.41	0.29	C
3	River Satluj U/S Buddha Nallah	1690	12.01.24	SW 333	ZO Lab LDH	8.0	8.8	1.2	410	1100	260	0.050	0.89	0.26	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12.01.24	SW 335	ZO Lab LDH	7.7	2.4	58	937	5,40,000	1,40,000	0.168	4.27	0.64	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.01.24	SW 337	ZO Lab LDH /HO Lab PAT	7.6	3.4	23	785	2,40,000	79,000	0.090	3.34	0.33	E
6	River Satluj at D/s East Bein	1381	15.01.24	SW 339	ZO Lab LDH /HO Lab PAT	7.5	3.0	35	816	2,80,000	79,000	0.096	3.49	0.41	E
7	River Satluj at Harike	1022	15.01.24	SW 340	ZO Lab LDH /HO Lab PAT	7.7	8.4	3.2	347	5400	2200	0.024	0.79	0.30	D

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	NO3-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 328	ZO Lab LDH	BDL	15	16	190	163	13	32	122	33.6	9.2	112	BDL	BDL	2	BDL	BDL	0.17	9.9	3.6
2	River Satluj D/S of Rishab- Paper Mills	1293	SW 329	ZO Lab LDH	6	19	15	211	182	29	24	136	36.8	10.7	118	BDL	BDL	2.4	BDL	BDL	0.18	11	4.1
3	River Satluj U/S Buddha Nallah	1690	SW 333	ZO Lab LDH	8	55	34	260	218	30	27	160	44.8	11.7	134	BDL	1.0	3.7	1.8	0.60	0.18	25.8	5.5
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW 335	ZO Lab LDH	212	140	196	603	485	130	45	212	55.2	18.0	220	BDL	5.6	4	7.8	2.4	0.29	143	16.4
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW 337	ZO Lab LDH	98	90	102	497	408	91	42	194	52	15.6	202	BDL	3.6	4	5.6	0.71	0.20	107	12
6	River Satluj at D/s East Bein	1381	SW 339	ZO Lab LDH	114	100	110	527	435	102	46	202	53.6	16.5	210	BDL	4.8	3.6	6.5	0.80	0.30	114	14.2
7	River Satluj at Harike	1022	SW 340	ZO Lab LDH	26	85	46	215	182	36	27	110	29.6	8.7	114	BDL	0.8	3	1.5	0.45	0.18	19	4.9

- 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 January, 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 µs/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	2.1.2024	SW 2686	H/o Lab Patiala	7.5	5.8	8	521	21000	1700	2.09	0.20	0.47	D
2	Ghaggar at Bhankarpur	1295	2.1.2024	SW 2687	H/o Lab Patiala	7.4	3.7	13	815	22000	2600	2.06	0.17	0.65	E
3	Ghaggar at Chattbir	1698	2.1.2024	SW 2688	H/o Lab Patiala	7.4	3.8	17	852	24000	2700	2.06	0.19	0.67	E
4	Ghaggar at U/s Jharmal Nadi	1702	2.1.2024	SW 2689	H/o Lab Patiala	7.5	4.0	12	651	21000	2100	1.90	0.23	0.52	D
5	Ghaggar at D/s Jharmal Nadi	1701	2.1.2024	SW 2690	H/o Lab Patiala	7.5	3.5	13	753	24000	2700	2.07	0.25	0.63	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	2.1.2024	SW 2692	H/o Lab Patiala	7.4	3.7	12	658	22000	2600	1.83	0.18	0.59	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	2.1.2024	SW 2693	H/o Lab Patiala	7.3	3.4	14	857	28000	3400	2.25	0.13	0.76	E
8	Ghaggar at Rattanheri	1473	4.1.2024	SW 2745	H/o Lab Patiala	7.4	3.2	19	915	28000	3800	2.26	0.20	0.81	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	4.1.2024	SW 2746	H/o Lab Patiala	7.5	3.3	17	851	28000	3800	1.96	0.27	0.78	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	4.1.2024	SW 2747	H/o Lab Patiala	7.5	3.0	22	992	28000	4600	2.24	0.25	0.83	E
11	Ghaggar at Khanauri	1024	4.1.2024	SW 2750	H/o Lab Patiala	7.6	3.3	20	951	28000	4600	2.04	0.33	0.80	E
12	Ghaggar at Moonak	1703	4.1.2024	SW 2752	H/o Lab Patiala	7.6	3.0	24	1018	35000	6300	2.17	0.35	0.86	E
13	Ghaggar at U/s Sardulgarh	1705	9.1.2024	SW 2753	H/o Lab Patiala	7.7	5.3	9	510	21000	1700	1.43	0.29	0.38	D
14	Ghaggar at D/s Sardulgarh	1704	9.1.2024	SW 2754	H/o Lab Patiala	7.8	6.7	11	617	21000	2100	1.84	0.38	0.50	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 2686	H/o Lab Patiala	41	430	411	337	288	37	8	145	40	11	238	BDL	10.1	1.0	14.1	1.2	1.0	58	11
2	Ghaggar at Bhankarpur	1295	SW 2687	H/o Lab Patiala	74	470	424	531	455	82	16	299	85	21	284	BDL	11.6	1.2	16.2	1.4	1.3	82	40
3	Ghaggar at Chattbir	1698	SW 2688	H/o Lab Patiala	80	450	439	553	472	86	20	324	90	24	291	BDL	12.4	1.4	17.4	1.4	1.2	85	42
4	Ghaggar at U/s Jharmal Nadi	1702	SW 2689	H/o Lab Patiala	57	370	361	423	362	58	14	202	56	15	262	BDL	11.7	1.3	16.4	1.4	1.3	62	29
5	Ghaggar at D/s Jharmal Nadi	1701	SW 2690	H/o Lab Patiala	71	390	390	491	421	78	17	282	80	20	277	BDL	12.4	1.3	17.4	1.5	1.4	80	31
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 2692	H/o Lab Patiala	60	240	283	427	365	50	16	224	63	16	258	BDL	12.3	1.3	17.2	1.4	1.4	63	28
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 2693	H/o Lab Patiala	76	360	312	559	478	86	21	309	84	24	292	BDL	12.6	1.5	17.6	1.6	1.3	91	43
8	Ghaggar at Rattanheri	1473	SW 2745	H/o Lab Patiala	82	330	338	597	510	92	29	356	98	27	288	BDL	13.6	2.1	19.0	2.5	1.8	98	45
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 2746	H/o Lab Patiala	77	310	319	553	473	86	25	340	93	26	277	BDL	13.3	2.0	18.6	2.4	1.6	83	41
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 2747	H/o Lab Patiala	85	350	343	695	551	97	33	409	101	38	310	BDL	12.6	2.5	17.6	2.7	1.9	100	56
11	Ghaggar at Khanauri	1024	SW 2750	H/o Lab Patiala	81	350	340	621	531	93	29	409	96	41	298	BDL	13.2	2.4	18.5	2.2	2.6	95	52
12	Ghaggar at Moonak	1703	SW 2752	H/o Lab Patiala	91	390	365	661	563	98	31	437	104	43	319	BDL	13.8	2.5	19.3	2.3	2.6	104	57
13	Ghaggar at U/s Sardulgarh	1705	SW 2753	H/o Lab Patiala	45	30	42	331	283	39	10	148	41	11	235	BDL	9.7	1.0	13.6	1.4	1.0	40	21
14	Ghaggar at D/s Sardulgarh	1704	SW 2754	H/o Lab Patiala	60	40	55	399	341	43	16	182	48	15	267	BDL	10.9	1.2	15.3	1.5	1.2	57	29

- Note. 1. BDL means Below Method Detection Limit
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