

Quality of Water of Polluted River stretches in Punjab for the month of January, 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	Water Quality Index
1	Ropar Head-Works	1019	11.01.2023	SW 539	ZO Lab LDH	8.0	8.5	BDL	308	480	61	BDL	0.40	0.12	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	11.01.2023	SW 540	ZO Lab LDH	7.9	7.4	BDL	363	700	78	BDL	0.58	0.29	C	S
3	River Satluj U/S Buddha Nallah	1690	12.01.2023	SW 542	ZO Lab LDH	7.7	7.1	1.2	343	3200	1300	0.024	0.57	0.27	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12.01.2023	SW 544	ZO Lab LDH	7.2	1.1	19	726	4,30,000	1,10,000	0.078	2.42	0.45	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.01.2023	SW 546	ZO Lab LDH	7.5	5.5	10	420	1,10,000	22,000	0.078	1.38	0.28	D	U
6	River Satluj at D/s East Bein	1381	17.01.2023	SW 547	ZO Lab LDH	7.3	3.5	18	544	3,50,000	1,30,000	0.054	1.80	0.39	E	U
7	River Satluj at Harike	1022	17.01.2023	SW 548	ZO Lab LDH	7.4	6.2	2.8	442	3300	780	0.033	1.36	0.31	C	S

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	11.01.2023	SW 539	ZO Lab LDH	BDL	14	11	178	153	14	13	176	47.2	14.1	106	BDL	BDL	2.1	BDL	BDL	0.30	12.1	2.8
2	River Satluj D/S of Rishab- Paper Mills	1293	11.01.2023	SW 540	ZO Lab LDH	BDL	18	13	216	184	25	18	156	40.8	13.1	112	BDL	BDL	1.8	BDL	BDL	0.34	16.7	5.0
3	River Satluj U/S Buddha Nallah	1690	12.01.2023	SW 542	ZO Lab LDH	10	80	52	206	174	23	21	154	40.8	12.6	115	BDL	0.8	2.6	1.6	0.36	0.29	16.4	3.8
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12.01.2023	SW 544	ZO Lab LDH	84	110	94	452	360	104	32	196	50.4	17.0	211	BDL	7.8	2.4	10.2	1.03	0.38	78	11.9
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.01.2023	SW 546	ZO Lab LDH	44	100	74	278	224	37	28	166	45.6	12.6	141	BDL	3.9	1.9	5.3	0.37	0.24	41	6.5
6	River Satluj at D/s East Bein	1381	17.01.2023	SW 547	ZO Lab LDH	88	110	96	329	265	52	30	184	52.8	12.6	157	BDL	5.4	1.8	7.5	0.82	0.25	56	10.3
7	River Satluj at Harike	1022	17.01.2023	SW 548	ZO Lab LDH	20	40	32	289	240	38	26	190	53.6	13.6	149	BDL	2.2	2.2	3.0	0.61	0.26	43	8.5

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, 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	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	5/1/23	SW 1096	H/o Lab Patiala	7.5	4.2	11	491	21000	2100	9.4	1.84	0.51	D	U
2	Ghaggar at Bhankarpur	1295	5/1/23	SW 1097	H/o Lab Patiala	7.7	2.2	23	701	24000	3400	10.7	1.88	0.57	E	U
3	Ghaggar at Chattbir	1698	5/1/23	SW 1098	H/o Lab Patiala	7.8	2.1	22	711	28000	3800	11.6	1.78	0.63	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	5/1/23	SW 1099	H/o Lab Patiala	8.0	3.4	13	593	24000	3400	11.4	1.75	0.50	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	5/1/23	SW 1100	H/o Lab Patiala	7.4	3.0	14	703	28000	3900	11.8	1.82	0.63	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/1/23	SW 1102	H/o Lab Patiala	8.0	3.1	10	565	21000	2200	10.9	1.72	0.51	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/1/23	SW 1103	H/o Lab Patiala	8.1	2.8	17	710	28000	3800	1.5	1.92	0.69	E	U
8	Ghaggar at Rattanheri	1473	10/1/2023	SW 1173	H/o Lab Patiala	8.0	3.1	14	721	28000	4600	11.7	1.87	0.69	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/1/2023	SW 1174	H/o Lab Patiala	8.1	3.0	13	701	28000	3400	11.4	1.88	0.66	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/1/2023	SW 1175	H/o Lab Patiala	8.1	2.6	15	820	35000	5800	9.6	1.89	0.85	E	U
11	Ghaggar at Khanauri	1024	10/1/2023	SW 1178	H/o Lab Patiala	7.9	3.0	14	708	28000	3800	11.2	1.70	0.82	E	U
12	Ghaggar at Moonak	1703	10/1/2023	SW 1180	H/o Lab Patiala	7.8	2.2	17	771	35000	5800	11.9	1.75	0.95	E	U
13	Ghaggar at U/s Sardulgarh	1705	18/1/2023	SW 1195	H/o Lab Patiala	7.6	4.3	12	527	21000	2100	9.3	1.64	0.55	D	U
14	Ghaggar at D/s Sardulgarh	1704	18/1/2023	SW 1196	H/o Lab Patiala	7.5	4.0	13	591	22000	2600	10.1	1.66	0.65	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	5/1/23	SW 1096	H/o Lab Patiala	56	460	442	315	269	30	11	146	35	14	219	BDL	9.4	1.0	13.2	1.2	1.1	51	22
2	Ghaggar at Bhankarpur	1295	5/1/23	SW 1097	H/o Lab Patiala	117	450	423	453	387	65	17	238	68	19	245	BDL	10.7	1.2	15.0	1.3	1.2	68	35
3	Ghaggar at Chattbir	1698	5/1/23	SW 1098	H/o Lab Patiala	112	370	358	463	395	68	18	253	70	19	253	BDL	11.6	1.3	16.2	1.4	1.3	65	37
4	Ghaggar at U/s Jharmal Nadi	1702	5/1/23	SW 1099	H/o Lab Patiala	66	290	222	377	321	43	16	175	45	15	238	BDL	11.4	1.2	16.0	1.3	1.2	53	27
5	Ghaggar at D/s Jharmal Nadi	1701	5/1/23	SW 1100	H/o Lab Patiala	76	280	247	417	355	50	17	194	51	16	261	BDL	11.8	1.3	16.5	1.2	1.2	58	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/1/23	SW 1102	H/o Lab Patiala	43	200	132	358	305	38	14	153	40	13	240	BDL	10.9	1.1	15.3	1.2	1.1	49	25
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/1/23	SW 1103	H/o Lab Patiala	84	210	177	457	389	63	19	237	65	18	258	BDL	1.5	1.4	16.1	1.3	1.3	68	31
8	Ghaggar at Rattanheri	1473	10/1/2023	SW 1173	H/o Lab Patiala	68	230	212	469	399	62	21	244	58	24	273	BDL	11.7	1.3	16.4	1.1	1.2	67	37
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/1/2023	SW 1174	H/o Lab Patiala	63	230	200	453	387	58	19	220	55	20	269	BDL	11.4	.2	16.1	1.1	1.1	64	35
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/1/2023	SW 1175	H/o Lab Patiala	75	245	229	493	421	65	24	268	66	25	277	BDL	9.6	1.3	13.4	1.2	1.2	71	39
11	Ghaggar at Khanauri	1024	10/1/2023	SW 1178	H/o Lab Patiala	72	210	198	451	385	62	20	252	58	26	259	BDL	11.2	1.3	15.7	1.0	1.2	62	30
12	Ghaggar at Moonak	1703	10/1/2023	SW 1180	H/o Lab Patiala	85	260	232	501	427	73	29	357	75	41	278	BDL	11.9	1.3	16.7	1.2	1.3	76	35
13	Ghaggar at U/s Sardulgarh	1705	18/1/2023	SW 1195	H/o Lab Patiala	56	90	48	342	292	33	17	162	35	18	229	BDL	9.3	1.1	13.0	1.0	1.0	48	22
14	Ghaggar at D/s Sardulgarh	1704	18/1/2023	SW 1196	H/o Lab Patiala	61	110	53	382	327	40	22	200	42	23	238	BDL	10.1	1.2	14.1	1.1	1.1	54	26

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