

Quality of Water of Polluted River stretches in Punjab for the month of February, 2022

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	10.02.2022	SW 204	ZO Lab Ldh	8.3	9.6	BDL	255	2700	780	BDL	0.34	0.11	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	10.02.2022	SW 205	ZO Lab Ldh	8.2	9.4	BDL	257	3400	1100	BDL	0.31	0.40	C	S
3	River Satluj U/S Buddha Nallah	1690	11.02.2022	SW 207	ZO Lab Ldh	8.2	8.0	1.3	283	4300	1700	0.112	0.44	0.34	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.02.2022	SW 209	ZO Lab Ldh	7.7	1.9	12	512	39,00,000	17,00,000	0.108	1.55	0.51	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.02.2022	SW 211	ZO Lab Ldh	7.7	4.4	5.4	413	3,30,000	1,10,000	0.091	1.14	0.27	D	U
6	River Satluj at D/s East Bein	1381	14.02.2022	SW 212	ZO Lab Ldh	7.5	2.2	8.2	650	6,30,000	3,30,000	0.092	1.83	0.52	E	U
7	River Satluj at Harike	1022	14.02.2022	SW 213	ZO Lab Ldh	7.8	6.5	1.2	337	4100	1300	0.052	0.84	0.34	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	10.02.2022	SW 204	ZO Lab Ldh	BDL	12	16	148	130	12	10	122	28.8	12.2	94	BDL	BDL	1.7	BDL	BDL	0.24	8.6	1.8
2	River Satluj D/S of Rishab- Paper Mills	1293	10.02.2022	SW 205	ZO Lab Ldh	BDL	14	19	149	131	13	12	120	28.8	11.7	98	BDL	BDL	1.4	BDL	BDL	0.29	7.7	1.8
3	River Satluj U/S Buddha Nallah	1690	11.02.2022	SW 207	ZO Lab Ldh	8	60	94	172	147	18	21	132	31.2	13.1	108	BDL	1.4	1.9	2.1	0.58	0.39	11.6	2.4
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.02.2022	SW 209	ZO Lab Ldh	64	120	196	358	285	112	37	166	40	16.0	134	BDL	3.6	2.1	5.2	7.2	0.44	46	5.1
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.02.2022	SW 211	ZO Lab Ldh	29	75	87	274	221	68	29	140	33.6	13.6	110	BDL	3.1	1.8	4.9	6.6	0.34	31	3.2
6	River Satluj at D/s East Bein	1381	14.02.2022	SW 212	ZO Lab Ldh	41	85	102	395	312	79	34	190	45.6	18.5	146	BDL	4.6	1.9	6.3	7.2	0.33	58	7.1
7	River Satluj at Harike	1022	14.02.2022	SW 213	ZO Lab Ldh	7	60	64	206	173	32	16	154	36.8	15.1	108	BDL	1.5	1.4	2.2	1.11	0.22	24	3.4

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, 2022

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	8/2/2022	5686	H/o Lab Patiala	8.0	5.9	8	447	21000	2600	0.46	1.82	0.28	D	U
2	Ghaggar at Bhankarpur	1295	8/2/2022	5687	H/o Lab Patiala	7.4	4.1	16	557	24000	3400	0.16	1.89	0.41	D	U
3	Ghaggar at Chattbir	1698	8/2/2022	5688	H/o Lab Patiala	7.3	4.0	15	565	28000	3800	0.11	2.06	0.46	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	8/2/2022	5689	H/o Lab Patiala	7.3	4.3	12	508	24000	2700	0.10	1.69	0.38	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	8/2/2022	5690	H/o Lab Patiala	7.2	3.1	14	610	28000	4000	0.11	1.77	0.45	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/2/2022	5692	H/o Lab Patiala	7.3	4.4	11	592	28000	3400	0.12	1.50	0.77	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/2/2022	5693	H/o Lab Patiala	7.1	3.6	13	631	28000	4000	0.01	1.96	0.36	E	U
8	Ghaggar at Rattanheri	1473	10/2/2022	5700	H/o Lab Patiala	7.2	2.7	14	655	28000	4600	0.14	2.01	0.46	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/2/2022	5701	H/o Lab Patiala	7.0	3.1	12	595	28000	3800	BDL	1.86	0.41	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/2/2022	5702	H/o Lab Patiala	7.1	2.4	15	693	35000	5500	0.06	1.80	0.49	E	U
11	Ghaggar at Khanauri	1024	10/2/2022	5705	H/o Lab Patiala	7.1	2.9	13	645	35000	4600	0.07	1.84	0.53	E	U
12	Ghaggar at Moonak	1703	10/2/2022	5707	H/o Lab Patiala	7.3	3.3	14	698	43000	8400	0.14	1.89	0.62	E	U
13	Ghaggar at U/s Sardulgarh	1705	24/2/2022	5715	H/o Lab Patiala	7.7	5.5	12	545	24000	3400	0.32	1.66	0.33	D	U
14	Ghaggar at D/s Sardulgarh	1704	24/2/2022	5716	H/o Lab Patiala	7.6	4.9	14	621	28000	3800	0.27	1.65	0.38	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	8/2/2022	5686	H/o Lab Patiala	34	380	418	291	247	30	7	106	26	10	209	BDL	9.1	0.9	12.7	1.1	1.1	43	17
2	Ghaggar at Bhankarpur	1295	8/2/2022	5687	H/o Lab Patiala	77	410	424	363	310	35	11	185	46	17	222	BDL	10.7	1.0	14.5	1.1	1.1	59	22
3	Ghaggar at Chattbir	1698	8/2/2022	5688	H/o Lab Patiala	73	470	468	368	313	36	10	172	44	15	227	BDL	11.1	1.1	15.5	1.2	1.0	62	24
4	Ghaggar at U/s Jharmal Nadi	1702	8/2/2022	5689	H/o Lab Patiala	58	320	288	315	268	28	10	117	32	9	215	BDL	10.3	1.0	14.4	1.1	1.0	42	19
5	Ghaggar at D/s Jharmal Nadi	1701	8/2/2022	5690	H/o Lab Patiala	67	370	297	385	328	44	12	202	48	20	225	BDL	11.4	1.2	16.0	1.2	1.2	58	24
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/2/2022	5692	H/o Lab Patiala	54	210	217	347	295	41	11	171	42	16	218	BDL	11.9	1.1	16.7	1.2	1.2	45	21
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/2/2022	5693	H/o Lab Patiala	64	200	227	402	342	46	15	209	47	22	231	BDL	12.7	1.2	17.8	1.3	1.2	65	31
8	Ghaggar at Rattanheri	1473	10/2/2022	5700	H/o Lab Patiala	67	235	209	417	354	48	21	218	49	23	233	BDL	13.9	1.2	19.5	1.4	1.3	68	33
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/2/2022	5701	H/o Lab Patiala	62	225	197	385	328	44	19	197	46	20	226	BDL	13.1	1.2	18.3	1.3	1.2	60	28
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/2/2022	5702	H/o Lab Patiala	68	240	210	433	369	54	22	247	51	29	237	BDL	12.9	1.2	18.1	1.4	1.2	65	36
11	Ghaggar at Khanauri	1024	10/2/2022	5705	H/o Lab Patiala	64	240	213	378	322	40	16	182	43	18	230	BDL	13.8	1.1	19.3	1.3	1.2	57	28
12	Ghaggar at Moonak	1703	10/2/2022	5707	H/o Lab Patiala	70	265	229	447	380	51	29	253	52	30	243	BDL	14.2	1.3	19.9	1.4	1.3	69	37
13	Ghaggar at U/s Sardulgarh	1705	24/2/2022	5715	H/o Lab Patiala	60	70	94	339	289	31	12	165	38	17	225	BDL	10.4	1.1	14.6	1.2	1.2	49	24
14	Ghaggar at D/s Sardulgarh	1704	24/2/2022	5716	H/o Lab Patiala	68	85	92	388	332	40	15	211	48	22	235	BDL	10.9	1.2	15.3	1.3	1.2	55	29

Note. 1. BDL means Below Method Detection Limit

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