

Quality of Water of Polluted River stretches in Punjab for the month of October, 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	13.10.2022	SW 356	ZO Lab Ldh	7.8	7.7	BDL	254	790	330	BDL	0.28	0.11	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	13.10.2022	SW 357	ZO Lab Ldh	7.8	7.6	BDL	255	840	460	BDL	0.27	0.28	C	S
3	River Satluj U/S Buddha Nallah	1690	14.10.2022	SW 360	ZO Lab Ldh	8.0	7.2	BDL	278	1100	460	BDL	0.62	0.13	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.10.2022	SW 362	ZO Lab Ldh	7.7	6.0	2.6	332	1,70,000	70,000	0.010	0.69	0.34	D	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.10.2022	SW 364	ZO Lab Ldh	7.8	5.0	1.4	320	70,000	22,000	BDL	0.48	0.21	D	U
6	River Satluj at D/s East Bein	1381	17.10.2022	SW 365	ZO Lab Ldh	7.7	4.9	2.5	307	84,000	31,000	BDL	0.43	0.24	D	U
7	River Satluj at Harike	1022	17.10.2022	SW 366	ZO Lab Ldh	7.7	7.3	1.4	331	3300	1100	BDL	0.42	0.29	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	13.10.2022	SW 356	ZO Lab Ldh	BDL	45	32	143	126	7	6	116	31.2	9.2	82	BDL	BDL	1.6	BDL	BDL	0.23	6.9	1.7
2	River Satluj D/S of Rishab- Paper Mills	1293	13.10.2022	SW 357	ZO Lab Ldh	BDL	60	47	146	128	7	6	98	27.2	7.3	86	BDL	BDL	1.5	BDL	BDL	0.23	6.2	1.7
3	River Satluj U/S Buddha Nallah	1690	14.10.2022	SW 360	ZO Lab Ldh	BDL	180	188	162	143	7	8	110	29.6	8.7	96	BDL	BDL	2.2	BDL	BDL	0.21	15.0	6.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.10.2022	SW 362	ZO Lab Ldh	12	130	110	206	164	24	19	128	33.6	10.7	108	BDL	1.0	2.6	1.6	0.87	0.26	18	4.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.10.2022	SW 364	ZO Lab Ldh	7	160	116	192	162	16	15	120	32	9.7	90	BDL	BDL	1.8	BDL	BDL	0.23	12	3.0
6	River Satluj at D/s East Bein	1381	17.10.2022	SW 365	ZO Lab Ldh	8	110	130	184	160	13	12	122	32	10.2	98	BDL	BDL	2.0	BDL	BDL	0.24	11	3.0
7	River Satluj at Harike	1022	17.10.2022	SW 366	ZO Lab Ldh	7	130	156	196	173	17	14	130	34.4	10.7	104	BDL	BDL	1.8	BDL	BDL	0.21	11	1.5

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 October, 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	13.10.2022	769	H/o Lab Patiala	7.6	5.5	9	438	24000	2700	1.81	0.43	D	U	U
2	Ghaggar at Bhankarpur	1295	13.10.2022	770	H/o Lab Patiala	7.4	3.4	14	558	28000	3900	1.62	0.58	E	U	U
3	Ghaggar at Chattbir	1698	13.10.2022	771	H/o Lab Patiala	7.3	3.2	15	583	28000	4300	1.66	0.50	E	U	U
4	Ghaggar at U/s Jharmal Nadi	1702	13.10.2022	772	H/o Lab Patiala	7.3	4.0	10	465	22000	3200	1.60	0.44	D	U	U
5	Ghaggar at D/s Jharmal Nadi	1701	13.10.2022	773	H/o Lab Patiala	7.2	3.6	13	565	28000	4600	1.62	0.51	E	U	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	13.10.2022	775	H/o Lab Patiala	7.4	4.0	10	482	28000	3300	1.59	0.50	D	U	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	13.10.2022	776	H/o Lab Patiala	7.2	3.4	12	583	28000	4600	1.69	0.57	E	U	U
8	Ghaggar at Rattanheri	1473	17.10.2022	785	H/o Lab Patiala	7.3	3.0	16	638	35000	6300	1.75	0.73	E	U	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	17.10.2022	786	H/o Lab Patiala	7.4	3.2	15	619	28000	5800	1.71	0.71	E	U	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	17.10.2022	787	H/o Lab Patiala	7.5	3.0	18	729	35000	7000	1.82	0.79	E	U	U
11	Ghaggar at Khanauri	1024	17.10.2022	790	H/o Lab Patiala	7.4	3.3	17	690	35000	5800	1.79	0.77	E	U	U
12	Ghaggar at Moonak	1703	17.10.2022	792	H/o Lab Patiala	7.6	2.9	19	725	43000	7900	1.74	0.80	E	U	U
13	Ghaggar at U/s Sardulgarh	1705	20.10.2022	793	H/o Lab Patiala	7.4	5.3	8	451	21000	2600	1.62	0.43	D	U	U
14	Ghaggar at D/s Sardulgarh	1704	20.10.2022	794	H/o Lab Patiala	7.5	5.1	10	502	24000	3300	1.57	0.51	D	U	U

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1	Ghaggar at Mubarikpur Rest House	1023	13.10.2022	769	H/o Lab Patiala	44	490	572	285	243	26	10	97	24	9	209	BDL	11.9	1.1	16.7	1.0	1.1	41	16
2	Ghaggar at Bhankarpur	1295	13.10.2022	770	H/o Lab Patiala	71	400	363	360	308	46	11	173	48	13	231	BDL	12.3	1.1	17.2	1.2	1.1	49	22
3	Ghaggar at Chattbir	1698	13.10.2022	771	H/o Lab Patiala	73	410	393	378	324	50	13	186	51	14	235	BDL	12.6	1.1	17.6	1.2	1.2	52	23
4	Ghaggar at U/s Jharmal Nadi	1702	13.10.2022	772	H/o Lab Patiala	52	290	243	303	258	30	10	119	31	10	218	BDL	12.2	1.1	17.1	1.1	1.1	40	18
5	Ghaggar at D/s Jharmal Nadi	1701	13.10.2022	773	H/o Lab Patiala	70	380	442	368	314	49	13	167	47	12	238	BDL	12.8	1.1	17.9	1.2	1.2	48	21
6	Ghaggar at U/s Dhakanshu Nallah	1699	13.10.2022	775	H/o Lab Patiala	51	360	332	312	266	33	11	125	32	11	221	BDL	12.3	1.0	17.2	1.1	1.1	41	19
7	Ghaggar at D/s Dhakanshu Nallah	1700	13.10.2022	776	H/o Lab Patiala	69	400	441	379	324	51	15	178	50	13	237	BDL	12.7	1.1	17.8	1.2	1.2	52	22
8	Ghaggar at Rattanheri	1473	17.10.2022	785	H/o Lab Patiala	77	380	298	417	355	55	19	209	54	18	249	BDL	14.2	1.1	19.9	1.2	1.2	58	28
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	17.10.2022	786	H/o Lab Patiala	75	370	315	402	343	52	18	203	53	17	245	BDL	14.1	1.1	19.7	1.2	1.1	56	26
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	17.10.2022	787	H/o Lab Patiala	81	390	321	439	374	57	21	227	58	20	256	BDL	12.7	1.2	17.8	1.2	1.2	63	32
11	Ghaggar at Khanauri	1024	17.10.2022	790	H/o Lab Patiala	78	320	328	447	382	60	22	243	59	23	258	BDL	13.9	1.2	19.5	1.3	1.2	64	30
12	Ghaggar at Moonak	1703	17.10.2022	792	H/o Lab Patiala	80	370	353	472	402	63	24	271	64	27	265	BDL	14.4	1.3	20.2	1.3	1.3	66	34
13	Ghaggar at U/s Sardulgarh	1705	20.10.2022	793	H/o Lab Patiala	43	60	48	293	250	28	12	110	26	11	219	BDL	12.6	1.1	17.6	1.2	1.1	39	14
14	Ghaggar at D/s Sardulgarh	1704	20.10.2022	794	H/o Lab Patiala	51	75	72	327	288	35	15	143	34	14	226	BDL	12.9	1.1	18.1	1.2	1.2	43	17

Note. 1. BDL means Below Method Detection Limit
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3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)

Quality of Water of Polluted River stretches in Punjab for the month of October, 2022
Ghaggar: Mubarkpur to Sardulgarh: Priority I

S.N.	Point of Sample Collection	Code	Date of receipt in lab	Lab Code	T.Cr mg/l	Ni mg/l	Fe mg/l	Zn mg/l	Cu mg/l	Pb mg/l	Cd mg/l	As mg/l	Hg mg/l
1	Ghaggar at Mubarikpur Rest House	1023	13.10.2022	769	BDL	BDL	3.27	0.31	BDL	BDL	BDL	BDL	BDL
2	Ghaggar at Bhankarpur	1295	13.10.2022	770	BDL	BDL	7.33	0.59	BDL	BDL	BDL	BDL	BDL
3	Ghaggar at Chattbir	1698	13.10.2022	771	BDL	BDL	6.82	0.48	BDL	BDL	BDL	BDL	BDL
4	Ghaggar at U/s Jharmal Nadi	1702	13.10.2022	772	BDL	BDL	6.13	0.30	BDL	BDL	BDL	BDL	BDL
5	Ghaggar at D/s Jharmal Nadi	1701	13.10.2022	773	BDL	BDL	6.85	0.36	BDL	BDL	BDL	BDL	BDL
6	Ghaggar at U/s Dhakanshu Nallah	1699	13.10.2022	775	BDL	BDL	6.65	0.41	BDL	BDL	BDL	BDL	BDL
7	Ghaggar at D/s Dhakanshu Nallah	1700	13.10.2022	776	BDL	BDL	7.11	0.48	BDL	BDL	BDL	BDL	BDL
8	Ghaggar at Rattanheri	1473	17.10.2022	785	BDL	BDL	6.21	0.42	BDL	BDL	BDL	BDL	BDL
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	17.10.2022	786	BDL	BDL	6.19	0.40	BDL	BDL	BDL	BDL	BDL
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	17.10.2022	787	BDL	BDL	6.42	0.45	BDL	BDL	BDL	BDL	BDL
11	Ghaggar at Khanauri	1024	17.10.2022	790	BDL	BDL	6.91	0.44	BDL	BDL	BDL	BDL	BDL
12	Ghaggar at Moonak	1703	17.10.2022	792	BDL	BDL	7.03	0.48	BDL	BDL	BDL	BDL	BDL
13	Ghaggar at U/s Sardulgarh	1705	20.10.2022	793	BDL	BDL	4.52	0.24	BDL	BDL	BDL	BDL	BDL
14	Ghaggar at D/s Sardulgarh	1704	20.10.2022	794	BDL	BDL	4.73	0.29	BDL	BDL	BDL	BDL	BDL