

Quality of Water of Polluted River stretches in Punjab for the month of October, 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
1	Ropar Head-Works	1019	10.10.23	SW 163	ZO Lab Ldh	7.5	7.8	BDL	267	700	230	BDL	0.42	0.14	C
2	River Satluj D/S of Rishab- Paper Mills	1293	10.10.23	SW 164	ZO Lab Ldh	7.7	7.3	BDL	243	840	310	BDL	0.44	0.18	C
3	River Satluj U/S Buddha Nallah	1690	11.10.23	SW 182	ZO Lab Ldh	7.8	7.1	1.2	264	1100	490	BDL	0.19	0.26	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.10.23	SW 184	ZO Lab Ldh	7.3	2.1	17	741	4,30,000	2,10,000	0.048	2.39	0.48	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.10.23	SW 186	ZO Lab Ldh	7.2	5.1	3.6	370	46,000	13,000	0.010	0.79	0.25	D
6	River Satluj at D/s East Bein	1381	12.10.23	SW 188	ZO Lab Ldh	7.3	4.9	3.8	345	49,000	22,000	0.011	0.75	0.28	D
7	River Satluj at Harike	1022	12.10.23	SW 189	ZO Lab Ldh	7.8	6.8	2.2	271	4300	1400	BDL	0.55	0.23	C

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	10.10.23	SW 163	ZO Lab Ldh	BDL	20	23	163	143	9	26	112	30.4	8.7	96	BDL	BDL	1.2	BDL	BDL	0.16	10.2	3.4
2	River Satluj D/S of Rishab- Paper Mills	1293	10.10.23	SW 164	ZO Lab Ldh	BDL	23	30	168	146	10	31	114	30.4	9.2	98	BDL	BDL	1.3	BDL	BDL	0.17	10.8	4.0
3	River Satluj U/S Buddha Nallah	1690	11.10.23	SW 182	ZO Lab Ldh	8	84	90	162	134	12	32	114	29.6	9.7	92	BDL	BDL	1.1	BDL	BDL	0.16	4.6	2.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.10.23	SW 184	ZO Lab Ldh	86	140	170	495	384	65	58	250	64	21.9	230	BDL	4.8	8	7.2	1.61	0.28	87	12
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.10.23	SW 186	ZO Lab Ldh	22	155	120	231	184	23	31	134	35.2	11.2	108	BDL	1	3.5	1.6	0.37	0.25	21	5
6	River Satluj at D/s East Bein	1381	12.10.23	SW 188	ZO Lab Ldh	24	160	128	215	177	22	32	136	36	11.2	110	BDL	1.1	3.3	1.7	0.39	0.11	20	4.8
7	River Satluj at Harike	1022	12.10.23	SW 189	ZO Lab Ldh	14	110	67	163	137	15	21	104	27.2	8.7	98	BDL	BDL	3.1	BDL	0.21	0.12	13	3.3

- 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, 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
1	Ghaggar at Mubarikpur Rest House	1023	2277	9.10.2023	H/o Lab Patiala	7.8	5.7	9	481	22000	2700	0.35	1.88	0.44	D
2	Ghaggar at Bhankarpur	1295	2278	9.10.2023	H/o Lab Patiala	7.6	3.8	16	788	24000	3400	0.30	2.03	0.61	E
3	Ghaggar at Chattbir	1698	2279	9.10.2023	H/o Lab Patiala	7.6	3.6	15	768	24000	3400	0.30	2.00	0.59	E
4	Ghaggar at U/s Jharmal Nadi	1702	2280	9.10.2023	H/o Lab Patiala	7.5	3.9	14	631	22000	2700	0.23	1.99	0.48	E
5	Ghaggar at D/s Jharmal Nadi	1701	2281	9.10.2023	H/o Lab Patiala	7.7	2.8	17	747	28000	3800	0.36	2.05	0.58	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	2283	9.10.2023	H/o Lab Patiala	7.9	3.3	13	551	28000	3200	0.53	2.01	0.53	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	2284	9.10.2023	H/o Lab Patiala	7.7	3.0	21	783	35000	4600	0.36	2.04	0.65	E
8	Ghaggar at Rattanheri	1473	2291	10.10.2023	H/o Lab Patiala	7.8	3.7	18	821	35000	4600	0.45	2.11	0.68	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	2292	10.10.2023	H/o Lab Patiala	7.6	3.8	16	791	35000	3900	0.32	2.02	0.64	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	2293	10.10.2023	H/o Lab Patiala	7.7	3.2	19	858	35000	5800	0.37	2.11	0.72	E
11	Ghaggar at Khanauri	1024	2296	10.10.2023	H/o Lab Patiala	7.8	3.6	18	835	35000	4600	0.45	2.17	0.64	E
12	Ghaggar at Moonak	1703	2298	10.10.2023	H/o Lab Patiala	7.9	3.5	22	891	43000	6300	0.59	2.13	0.74	E
13	Ghaggar at U/s Sardulgarh	1705	2360	12.10.2023	H/o Lab Patiala	7.7	6.8	11	487	22000	2700	0.30	1.43	0.44	D
14	Ghaggar at D/s Sardulgarh	1704	2361	12.10.2023	H/o Lab Patiala	7.8	5.7	13	568	24000	3400	0.39	1.69	0.49	D

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1	Ghaggar at Mubarikpur Rest House	1023	2277	H/o Lab Patiala	38	470	455	311	266	33	8	129	35	10	229	BDL	10.1	1.0	14.1	1.3	1.0	49	10
2	Ghaggar at Bhankarpur	1295	2278	H/o Lab Patiala	78	440	436	514	437	78	16	294	83	21	275	BDL	11.8	1.5	16.5	1.3	1.1	80	41
3	Ghaggar at Chattbir	1698	2279	H/o Lab Patiala	72	430	428	500	427	75	17	281	78	21	277	BDL	12.1	1.9	16.9	1.4	1.3	77	35
4	Ghaggar at U/s Jharmal Nadi	1702	2280	H/o Lab Patiala	65	310	300	410	349	54	13	196	55	14	253	BDL	11.5	1.3	16.1	1.2	1.1	64	29
5	Ghaggar at D/s Jharmal Nadi	1701	2281	H/o Lab Patiala	81	340	348	487	414	71	18	261	73	19	274	BDL	11.9	1.5	16.7	1.4	1.2	76	34
6	Ghaggar at U/s Dhakanshu Nallah	1699	2283	H/o Lab Patiala	62	290	310	358	305	55	15	198	56	14	255	BDL	11.8	1.4	16.5	1.3	1.2	65	30
7	Ghaggar at D/s Dhakanshu Nallah	1700	2284	H/o Lab Patiala	92	300	329	510	437	76	21	284	77	22	279	BDL	12.1	1.6	16.9	1.5	1.3	79	37
8	Ghaggar at Rattanheri	1473	2291	H/o Lab Patiala	80	330	341	538	458	79	24	308	82	25	278	BDL	12.9	1.9	18.1	2.1	1.4	85	41
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	2292	H/o Lab Patiala	77	320	336	513	4.8	76	21	290	78	23	275	BDL	12.8	1.9	17.9	2.0	1.4	79	39
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	2293	H/o Lab Patiala	87	345	350	557	478	84	26	329	87	27	284	BDL	12.4	2.0	17.4	2.3	1.6	88	43
11	Ghaggar at Khanauri	1024	2296	H/o Lab Patiala	85	340	346	547	466	83	25	313	84	25	280	BDL	12.8	1.8	17.9	2.2	1.7	88	40
12	Ghaggar at Moonak	1703	2298	H/o Lab Patiala	92	360	377	581	495	88	27	338	89	28	301	BDL	13.1	2.1	18.3	2.3	1.7	90	44
13	Ghaggar at U/s Sardulgarh	1705	2360	H/o Lab Patiala	56	40	53	315	268	32	12	141	35	13	225	BDL	10.1	1.3	14.1	1.3	1.2	39	22
14	Ghaggar at D/s Sardulgarh	1704	2361	H/o Lab Patiala	68	45	62	367	314	41	17	174	43	16	241	BDL	11.2	1.4	15.7	1.5	1.4	51	26

- 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)