

Quality of Water of Polluted River stretches in Punjab for the month of November, 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	06.11.23	SW 209	ZO Lab Ldh	8.0	7.2	BDL	322	540	220	0.03	0.36	0.16	C
2	River Satluj D/S of Rishab- Paper Mills	1293	06.11.23	SW 213	ZO Lab Ldh	8.4	8.3	BDL	326	540	140	BDL	0.46	0.30	C
3	River Satluj U/S Buddha Nallah	1690	08.11.23	SW 217	ZO Lab Ldh	7.9	7.4	BDL	314	790	270	0.050	0.32	0.28	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.11.23	SW 219	ZO Lab Ldh	7.4	1.4	26	923	3,50,000	1,70,000	0.087	2.94	0.44	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.11.23	SW 224	ZO Lab Ldh	7.8	5.7	5	472	70,000	23,000	0.073	1.16	0.27	D
6	River Satluj at D/s East Bein	1381	10.11.23	SW 225	ZO Lab Ldh	7.8	5.4	6	492	84,000	31,000	0.084	1.23	0.38	D
7	River Satluj at Harike	1022	10.11.23	SW 226	ZO Lab Ldh	7.9	5.8	2.3	422	4300	1700	0.045	1.12	0.25	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	06.11.23	SW 209	ZO Lab Ldh	BDL	21	35	205	182	14	26	136	36	11.2	112	BDL	0.6	2	BDL	BDL	0.24	9.7	2.7
2	River Satluj D/S of Rishab- Paper Mills	1293	06.11.23	SW 213	ZO Lab Ldh	BDL	44	56	206	182	21	29	138	36.8	11.2	116	BDL	BDL	1.9	BDL	BDL	0.21	12.4	4.1
3	River Satluj U/S Buddha Nallah	1690	08.11.23	SW 217	ZO Lab Ldh	BDL	21	21	212	176	24	32	156	40.8	13.1	118	BDL	1.2	3.3	1.7	0.18	0.18	9.2	3.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.11.23	SW 219	ZO Lab Ldh	106	95	126	582	486	140	64	202	55.2	15.6	220	BDL	5.8	3.9	8.7	2.1	0.34	96	32
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.11.23	SW 224	ZO Lab Ldh	24	85	110	292	246	39	55	154	41.6	12.2	136	BDL	2.1	3.8	2.8	0.76	0.25	33	5.4
6	River Satluj at D/s East Bein	1381	10.11.23	SW 225	ZO Lab Ldh	28	95	122	307	252	45	50	162	44	12.6	144	BDL	2.4	6.3	3.3	0.86	0.27	36	6
7	River Satluj at Harike	1022	10.11.23	SW 226	ZO Lab Ldh	14	85	116	264	228	25	41	148	40	11.7	144	BDL	1.0	3.2	1.6	0.31	0.24	31.2	5.2

- 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 November, 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	6/11/23	2451	H/o Lab Patiala	7.8	5.3	9	510	22000	2700	2.06	0.36	0.49	D
2	Ghaggar at Bhankarpur	1295	6/11/23	2452	H/o Lab Patiala	7.7	3.8	14	831	28000	3200	2.10	0.35	0.68	E
3	Ghaggar at Chattbir	1698	6/11/23	2453	H/o Lab Patiala	7.6	3.7	16	824	28000	3800	2.05	0.30	0.62	E
4	Ghaggar at U/s Jharmal Nadi	1702	6/11/23	2454	H/o Lab Patiala	7.8	4.0	12	645	24000	3400	2.01	0.41	0.51	D
5	Ghaggar at D/s Jharmal Nadi	1701	6/11/23	2455	H/o Lab Patiala	7.7	3.6	16	778	28000	3900	2.08	0.36	0.61	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	6/11/23	2456	H/o Lab Patiala	7.6	3.3	13	648	28000	3200	2.03	0.30	0.58	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	6/11/23	2457	H/o Lab Patiala	7.7	3.0	17	827	28000	4600	2.11	0.37	0.69	E
8	Ghaggar at Rattanheri	1473	8/11/23	2489	H/o Lab Patiala	7.7	2.9	16	872	35000	4900	2.20	0.39	0.71	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	8/11/23	2490	H/o Lab Patiala	7.8	3.0	15	819	35000	4600	2.05	0.44	0.68	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	8/11/23	2491	H/o Lab Patiala	7.9	2.4	19	906	3500	5800	2.18	0.56	0.78	E
11	Ghaggar at Khanauri	1024	8/11/23	2494	H/o Lab Patiala	7.9	3.1	17	861	35000	4600	2.16	0.52	0.69	E
12	Ghaggar at Moonak	1703	8/11/23	2496	H/o Lab Patiala	7.9	2.7	20	931	43000	6300	2.12	0.60	0.79	E
13	Ghaggar at U/s Sardulgarh	1705	14/11/23	2499	H/o Lab Patiala	7.8	6.5	11	511	21000	2100	1.47	0.36	0.48	D
14	Ghaggar at D/s Sardulgarh	1704	14/11/23	2500	H/o Lab Patiala	7.9	6.0	13	610	24000	2700	1.84	0.51	0.52	D

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1	Ghaggar at Mubarikpur Rest House	1023	2451	H/o Lab Patiala	39	430	442	331	283	35	9	140	38	11	235	BDL	10.3	1.1	14.4	1.3	1.0	56	12
2	Ghaggar at Bhankarpur	1295	2452	H/o Lab Patiala	72	430	438	542	462	80	18	311	88	22	286	BDL	11.6	1.5	16.2	1.6	1.2	85	46
3	Ghaggar at Chattbir	1698	2453	H/o Lab Patiala	80	460	451	538	458	82	20	303	83	23	291	BDL	12.0	1.6	16.8	1.6	1.1	82	39
4	Ghaggar at U/s Jharmal Nadi	1702	2454	H/o Lab Patiala	60	470	398	419	357	50	14	205	57	15	261	BDL	11.7	1.2	16.4	1.3	1.0	66	31
5	Ghaggar at D/s Jharmal Nadi	1701	2455	H/o Lab Patiala	79	430	410	508	433	80	18	281	81	19	278	BDL	12.1	1.4	16.9	1.5	1.2	80	30
6	Ghaggar at U/s Dhakanshu Nallah	1699	2456	H/o Lab Patiala	62	450	303	421	358	49	13	207	58	15	262	BDL	11.9	1.1	16.7	1.2	1.1	67	32
7	Ghaggar at D/s Dhakanshu Nallah	1700	2457	H/o Lab Patiala	83	280	338	538	458	51	22	307	83	24	288	BDL	12.3	1.8	17.2	1.6	1.3	85	39
8	Ghaggar at Rattanheri	1473	2489	H/o Lab Patiala	80	320	351	568	483	84	26	341	88	27	289	BDL	13.1	2.1	18.3	2.2	1.6	92	46
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	2490	H/o Lab Patiala	78	330	340	533	454	81	22	304	82	24	283	BDL	12.7	2.0	17.8	2.0	1.5	82	41
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	2491	H/o Lab Patiala	89	310	360	588	501	86	27	351	91	30	298	BDL	12.5	2.2	17.5	2.2	1.6	94	49
11	Ghaggar at Khanauri	1024	2494	H/o Lab Patiala	84	360	352	560	477	81	24	330	86	28	287	BDL	12.9	2.0	18.1	2.1	1.4	90	48
12	Ghaggar at Moonak	1703	2496	H/o Lab Patiala	91	350	59	608	518	88	28	365	93	32	315	BDL	13.3	2.3	18.6	2.2	1.5	93	51
13	Ghaggar at U/s Sardulgarh	1705	2499	H/o Lab Patiala	47	370	67	333	284	35	14	156	39	14	231	BDL	10.4	1.1	14.6	1.6	1.1	42	23
14	Ghaggar at D/s Sardulgarh	1704	2500	H/o Lab Patiala	58	50	710	395	338	47	18	188	47	17	249	BDL	11.3	1.2	15.8	1.6	1.1	58	29

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)