

**Quality of Water of Polluted River stretches in Punjab for the month of July, 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 $\mu$ 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	18.07.23	SW 45	ZO Lab LDH	8.2	6.4	BDL	280	1300	450	BDL	0.22	0.16	C
2	River Satluj D/S of Rishab- Paper Mills	1293	18.07.23	SW 46	ZO Lab LDH	8.1	7.0	BDL	282	1400	450	BDL	0.23	0.14	C
3	River Satluj U/S Buddha Nallah	1690	19.07.23	SW 50	ZO Lab LDH	8.0	6.9	BDL	302	1300	490	0.125	0.31	0.21	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	19.07.23	SW 52	ZO Lab LDH	7.5	1.5	18	891	15,00,000	3,20,000	0.174	3.70	0.41	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.07.23	SW 54	ZO Lab LDH /HO Lab PAT	7.8	5.2	2.2	322	40,000	17,000	0.028	0.43	0.18	D
6	River Satluj at D/s East Bein	1381	20.07.23	SW 56	ZO Lab LDH /HO Lab PAT	7.7	5.0	2.0	320	46,000	14,000	0.024	0.45	0.21	D
7	River Satluj at Harike	1022	20.07.23	SW 57	ZO Lab LDH /HO Lab PAT	7.6	5.4	1.4	278	3200	1700	BDL	0.41	0.20	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 <sub>4</sub> mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Alkn mg/l	P.Alkn mg/l	AmnN mg/l	NO <sub>3</sub> -N mg/l	TKN mg/l	PO <sub>4</sub> as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	18.07.23	SW 45	ZO Lab LDH	BDL	37	24	173	153	28	26	124	33.6	9.7	92	BDL	BDL	2.6	BDL	BDL	0.20	5.6	2.3
2	River Satluj D/S of Rishab- Paper Mills	1293	18.07.23	SW 46	ZO Lab LDH	BDL	42	37	175	156	24	28	120	32.8	9.2	96	BDL	BDL	2.4	BDL	BDL	0.20	5.9	2.4
3	River Satluj U/S Buddha Nallah	1690	19.07.23	SW 50	ZO Lab LDH	BDL	70	148	192	164	11	26	128	34.4	10.2	106	BDL	2.5	2	4.1	2.0	0.18	8.1	3.9
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	19.07.23	SW 52	ZO Lab LDH	100	100	170	561	471	140	22	212	57.6	16.5	142	BDL	8.7	3.2	12	2.5	0.31	124	23
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.07.23	SW 54	ZO Lab LDH	10	95	106	201	174	17	28	124	34.4	9.2	102	BDL	0.8	2.4	2.8	0.8	0.22	11	4
6	River Satluj at D/s East Bein	1381	20.07.23	SW 56	ZO Lab LDH	12	90	116	194	165	16	25	118	32	9.2	100	BDL	0.8	2	2.5	0.7	0.20	11.3	4.1
7	River Satluj at Harike	1022	20.07.23	SW 57	ZO Lab LDH	10	60	90	164	142	12	20	108	26.4	10.2	96	BDL	BDL	1.6	2.0	0.5	0.19	9.7	3.8

- 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 July, 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 $\mu$ 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	5.7.2023	SW 1845	H/o Lab Patiala	7.8	7.0	8	521	21000	2100	1.83	0.29	0.38	D
2	Ghaggar at Bhankarpur	1295	5.7.2023	SW 1846	H/o Lab Patiala	7.9	3.6	17	835	24000	2700	2.13	0.51	0.52	E
3	Ghaggar at Chattbir	1698	5.7.2023	SW 1847	H/o Lab Patiala	7.8	3.2	18	772	28000	3200	2.01	0.41	0.50	E
4	Ghaggar at U/s Jharmal Nadi	1702	5.7.2023	SW 1848	H/o Lab Patiala	7.8	4.0	11	691	21000	2200	1.96	0.40	0.46	D
5	Ghaggar at D/s Jharmal Nadi	1701	5.7.2023	SW 1849	H/o Lab Patiala	7.7	2.8	13	739	24000	3400	1.97	0.34	0.53	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.7.2023	SW 1851	H/o Lab Patiala	7.8	4.1	12	665	22000	2600	1.94	0.41	0.50	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.7.2023	SW 1852	H/o Lab Patiala	7.7	3.0	16	832	28000	3400	2.02	0.36	0.55	E
8	Ghaggar at Rattanheri	1473	6.7.2023	SW 1859	H/o Lab Patiala	7.5	2.9	17	835	28000	3200	2.11	0.24	0.56	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	6.7.2023	SW 1860	H/o Lab Patiala	7.6	3.0	17	606	28000	3200	2.15	0.29	0.53	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	6.7.2023	SW 1861	H/o Lab Patiala	7.6	2.1	19	891	28000	3800	2.12	0.28	0.62	E
11	Ghaggar at Khanauri	1024	6.7.2023	SW 1864	H/o Lab Patiala	7.3	3.4	15	881	28000	3900	2.04	0.12	0.65	E
12	Ghaggar at Moonak	1703	6.7.2023	SW 1866	H/o Lab Patiala	7.4	3.0	19	991	28000	4600	2.02	0.19	0.66	D
13	Ghaggar at U/s Sardulgarh	1705	7.7.2023	SW 1867	H/o Lab Patiala	6.73	5.2	8	472	17000	1700	1.57	BDL	0.33	D
14	Ghaggar at D/s Sardulgarh	1704	7.7.2023	SW 1868	H/o Lab Patiala	7.1	4.6	9	567	21000	2100	1.66	BDL	0.36	E

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1	Ghaggar at Mubarikpur Rest House	1023	5.7.2023	SW 1845	H/o Lab Patiala	40	710	797	339	291	35	13	135	36	11	247	BDL	8.4	1.1	11.8	2.2	1.0	49	21
2	Ghaggar at Bhankarpur	1295	5.7.2023	SW 1846	H/o Lab Patiala	78	590	892	543	463	81	24	315	83	26	282	BDL	11.3	2.2	15.8	2.1	1.3	87	43
3	Ghaggar at Chattbir	1698	5.7.2023	SW 1847	H/o Lab Patiala	85	650	694	503	428	75	21	292	77	24	261	BDL	11.6	2.0	16.2	2.2	1.2	79	40
4	Ghaggar at U/s Jharmal Nadi	1702	5.7.2023	SW 1848	H/o Lab Patiala	50	300	226	447	381	60	19	236	58	22	250	BDL	11.3	2.1	15.8	2.0	1.1	69	38
5	Ghaggar at D/s Jharmal Nadi	1701	5.7.2023	SW 1849	H/o Lab Patiala	60	350	272	482	411	62	23	253	63	23	278	BDL	11.2	1.6	15.7	2.3	1.4	72	40
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.7.2023	SW 1851	H/o Lab Patiala	57	370	346	432	368	53	19	212	52	20	260	BDL	11.6	2.3	16.2	1.6	1.3	65	37
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.7.2023	SW 1852	H/o Lab Patiala	78	290	266	542	463	80	26	314	81	27	286	BDL	12.1	2.8	16.9	2.4	1.6	82	42
8	Ghaggar at Rattanheri	1473	6.7.2023	SW 1859	H/o Lab Patiala	81	250	217	545	464	78	25	301	76	27	291	BDL	11.8	2.6	16.5	2.8	1.6	84	46
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	6.7.2023	SW 1860	H/o Lab Patiala	76	240	195	527	449	74	26	275	72	23	289	BDL	11.6	2.9	16.2	2.7	1.3	82	42
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	6.7.2023	SW 1861	H/o Lab Patiala	96	270	229	581	494	85	31	327	83	29	304	BDL	11.3	2.8	15.8	3.3	1.7	88	49
11	Ghaggar at Khanauri	1024	6.7.2023	SW 1864	H/o Lab Patiala	72	230	237	573	491	84	31	328	82	30	300	BDL	12.4	3.0	17.4	3.2	1.5	85	48
12	Ghaggar at Moonak	1703	6.7.2023	SW 1866	H/o Lab Patiala	91	290	225	648	554	95	45	410	93	43	315	BDL	12.9	3.2	18.1	3.6	1.9	94	51
13	Ghaggar at U/s Sardulgarh	1705	7.7.2023	SW 1867	H/o Lab Patiala	45	60	48	306	261	27	16	135	26	17	219	BDL	8.7	1.0	12.2	1.8	0.8	42	21
14	Ghaggar at D/s Sardulgarh	1704	7.7.2023	SW 1868	H/o Lab Patiala	53	75	63	368	315	39	21	194	41	22	231	BDL	10.2	1.1	14.3	2.0	1.0	53	26

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