

**Quality of Water of Polluted River stretches in Punjab for the month of May, 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	Water Quality Index
1	Ropar Head-Works	1019	17.05.23	SW 1744	ZO Lab LDH	7.8	8.4	BDL	265	790	270	BDL	0.36	0.39	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	17.05.23	SW 1748	ZO Lab LDH	7.7	7.6	BDL	287	1100	450	BDL	0.41	0.61	C	S
3	River Satluj U/S Buddha Nallah	1690	18.05.23	SW 1752	ZO Lab LDH	7.4	7.0	1.2	373	1200	450	0.024	0.61	0.36	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	18.05.23	SW 1754	ZO Lab LDH	7.8	BDL	56	1191	24,00,000	7,90,000	0.441	5.29	1.38	E	S
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	22.05.23	SW 1771	ZO Lab LDH /HO Lab PAT	7.1	BDL	22	715	3,90,000	1,30,000	0.005	1.98	0.58	E	S
6	River Satluj at D/s East Bein	1381	22.05.23	SW 1772	ZO Lab LDH /HO Lab PAT	7.1	BDL	15	678	5,40,000	2,20,000	0.006	1.26	0.69	E	S
7	River Satluj at Harike	1022	22.05.23	SW 1773	ZO Lab LDH /HO Lab PAT	7.2	6.5	3.2	367	5400	1300	0.024	1.03	0.65	D	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 <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	17.05.23	SW 1744	ZO Lab LDH	BDL	14	10	168	146	16	21	120	35.2	7.8	96	BDL	BDL	2.5	BDL	BDL	0.21	9	3.6
2	River Satluj D/S of Rishab- Paper Mills	1293	17.05.23	SW 1748	ZO Lab LDH	BDL	16	12	176	154	17	26	124	36	8.3	100	BDL	BDL	1.4	BDL	BDL	0.23	10.4	3.5
3	River Satluj U/S Buddha Nallah	1690	18.05.23	SW 1752	ZO Lab LDH	8	70	58	232	204	24	38	164	47.2	11.2	98	BDL	1.6	1.2	2.2	BDL	0.28	18	4.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	18.05.23	SW 1754	ZO Lab LDH	210	130	224	724	568	138	52	246	67.2	19.0	170	BDL	12.6	4.2	16.0	2.3	0.32	191	24
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	22.05.23	SW 1771	ZO Lab LDH	92	100	142	443	365	67	39	244	64	20.4	178	BDL	10.4	2.2	13.8	1.2	0.33	71	7
6	River Satluj at D/s East Bein	1381	22.05.23	SW 1772	ZO Lab LDH	65	115	158	398	321	74	42	146	39.2	11.7	186	BDL	12.0	2.4	16.0	1.4	0.36	35	6
7	River Satluj at Harike	1022	22.05.23	SW 1773	ZO Lab LDH	30	80	120	224	198	19	27	130	35.2	10.2	114	BDL	2.4	1.1	3.3	0.32	0.22	27	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 May, 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	5.5.2023	SW 1701	H/o Lab Patiala	7.2	6.6	8	535	21000	2100	1.82	0.08	0.45	D
2	Ghaggar at Bhankarpur	1295	5.5.2023	SW 1702	H/o Lab Patiala	7.3	3.3	22	851	28000	3800	2.05	0.10	0.56	E
3	Ghaggar at Chattbir	1698	5.5.2023	SW 1703	H/o Lab Patiala	7.1	3.4	26	788	35000	4700	1.97	0.01	0.52	E
4	Ghaggar at U/s Jharmal Nadi	1702	5.5.2023	SW 1704	H/o Lab Patiala	7.4	4.1	13	698	24000	3400	1.92	0.15	0.49	D
5	Ghaggar at D/s Jharmal Nadi	1701	5.5.2023	SW 1705	H/o Lab Patiala	7.4	3.6	17	753	28000	3900	1.90	0.16	0.54	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.5.2023	SW 1707	H/o Lab Patiala	6.6	4.0	15	668	28000	3300	1.92	BDL	0.52	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.5.2023	SW 1708	H/o Lab Patiala	7.1	2.9	18	845	35000	3900	1.99	0.01	0.58	E
8	Ghaggar at Rattanheri	1473	11.5.2023	SW 1717	H/o Lab Patiala	7.5	2.4	20	871	35000	6300	2.15	0.23	0.71	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11.5.2023	SW 1718	H/o Lab Patiala	7.0	2.5	19	823	35000	4600	2.01	BDL	0.68	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11.5.2023	SW 1719	H/o Lab Patiala	7.4	2.1	29	971	35000	7000	2.07	0.16	0.73	E
11	Ghaggar at Khanauri	1024	11.5.2023	SW 1722	H/o Lab Patiala	6.8	3.6	18	893	35000	6300	2.01	BDL	0.75	E
12	Ghaggar at Moonak	1703	11.5.2023	SW 1724	H/o Lab Patiala	6.8	3.1	21	1021	35000	7000	2.07	BDL	0.77	E
13	Ghaggar at U/s Sardulgarh	1705	12.5.2023	SW 1725	H/o Lab Patiala	7.2	5.6	9	499	21000	2200	1.74	0.09	0.49	D
14	Ghaggar at D/s Sardulgarh	1704	12.5.2023	SW 1726	H/o Lab Patiala	7.2	4.6	12	598	22000	2600	1.80	0.10	0.53	D

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1	Ghaggar at Mubarikpur Rest House	1023	5.5.2023	SW 1701	H/o Lab Patiala	45	490	590	347	295	39	12	148	38	13	238	BDL	7.9	1.0	11.1	2.3	1.1	51	23
2	Ghaggar at Bhankarpur	1295	5.5.2023	SW 1702	H/o Lab Patiala	96	500	417	553	471	80	23	332	85	29	287	BDL	10.1	2.2	14.1	2.7	1.4	86	46
3	Ghaggar at Chattbir	1698	5.5.2023	SW 1703	H/o Lab Patiala	105	430	435	513	438	77	21	297	76	26	261	BDL	10.7	2.0	15.0	2.6	1.4	78	48
4	Ghaggar at U/s Jharmal Nadi	1702	5.5.2023	SW 1704	H/o Lab Patiala	63	360	341	455	389	59	19	244	58	24	257	BDL	10.3	1.7	14.4	2.0	1.1	69	42
5	Ghaggar at D/s Jharmal Nadi	1701	5.5.2023	SW 1705	H/o Lab Patiala	84	410	398	489	417	62	24	271	64	27	275	BDL	10.9	2.1	15.3	2.1	1.3	72	45
6	Ghaggar at U/s Dhakanshu Nallah	1699	5.5.2023	SW 1707	H/o Lab Patiala	71	300	292	437	373	49	20	224	53	22	265	BDL	10.6	1.4	14.8	1.8	1.0	66	36
7	Ghaggar at D/s Dhakanshu Nallah	1700	5.5.2023	SW 1708	H/o Lab Patiala	89	390	441	548	468	80	25	323	83	28	283	BDL	11.4	2.3	15.0	2.4	1.6	82	49
8	Ghaggar at Rattanheri	1473	11.5.2023	SW 1717	H/o Lab Patiala	97	250	193	565	481	80	31	317	79	29	290	BDL	11.7	1.6	16.4	3.1	1.4	88	53
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11.5.2023	SW 1718	H/o Lab Patiala	95	235	191	538	458	78	26	293	76	25	287	BDL	11.4	1.2	15.0	2.8	1.1	79	47
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11.5.2023	SW 1719	H/o Lab Patiala	110	270	215	635	541	93	40	382	92	37	310	BDL	10.6	2.0	14.8	3.3	1.6	93	58
11	Ghaggar at Khanauri	1024	11.5.2023	SW 1722	H/o Lab Patiala	92	265	219	583	497	86	29	346	87	31	300	BDL	11.9	2.2	16.7	3.1	1.5	86	50
12	Ghaggar at Moonak	1703	11.5.2023	SW 1724	H/o Lab Patiala	100	290	271	665	567	96	46	425	96	45	319	BDL	12.3	2.4	17.2	3.8	1.9	98	59
13	Ghaggar at U/s Sardulgarh	1705	12.5.2023	SW 1725	H/o Lab Patiala	48	45	35	325	278	30	18	139	29	16	224	BDL	8.9	0.8	12.5	2.0	0.7	47	22
14	Ghaggar at D/s Sardulgarh	1704	12.5.2023	SW 1726	H/o Lab Patiala	57	65	58	391	336	40	24	198	41	23	238	BDL	9.9	0.9	14.9	2.4	0.7	58	31

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