

**Quality of Water of Polluted River stretches in Punjab for the month of June, 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	23.06.23	SW 24	ZO Lab LDH	7.9	8.5	BDL	244	790	460	BDL	0.16	0.16	C
2	River Satluj D/S of Rishab- Paper Mills	1293	23.06.23	SW 25	ZO Lab LDH	7.7	7.6	BDL	262	940	320	BDL	0.15	0.14	C
3	River Satluj U/S Buddha Nallah	1690	20.06.23	SW 10	ZO Lab LDH	7.8	6.5	2.0	342	1400	390	0.056	0.65	0.21	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	20.06.23	SW 12	ZO Lab LDH	7.5	BDL	60	1078	43,00,000	17,00,000	0.300	3.28	0.41	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.06.23	SW 16	ZO Lab LDH /HO Lab PAT	7.3	BDL	17	710	3,90,000	1,30,000	0.087	2.11	0.18	E
6	River Satluj at D/s East Bein	1381	21.06.23	SW 17	ZO Lab LDH /HO Lab PAT	7.4	BDL	10	693	5,40,000	94,000	0.072	1.86	0.21	E
7	River Satluj at Harike	1022	21.06.23	SW 20	ZO Lab LDH /HO Lab PAT	7.6	4.2	3	287	4300	1700	0.027	0.77	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	23.06.23	SW 24	ZO Lab LDH	6	10	16	146	134	6	12	110	28.8	9.2	88	BDL	BDL	1.7	BDL	0.25	0.20	3.9	2
2	River Satluj D/S of Rishab- Paper Mills	1293	23.06.23	SW 25	ZO Lab LDH	BDL	12	15	162	149	11	14	126	32.8	10.7	84	BDL	BDL	1.7	BDL	0.28	0.18	4	1.9
3	River Satluj U/S Buddha Nallah	1690	20.06.23	SW 10	ZO Lab LDH	14	50	42	232	205	26	14	146	37.6	12.6	122	BDL	1.6	1.6	2.0	0.77	0.26	18	4.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	20.06.23	SW 12	ZO Lab LDH	228	150	274	709	563	193	38	284	75.2	23.3	302	BDL	15	2.0	23	2.8	0.46	127	19
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.06.23	SW 16	ZO Lab LDH	80	178	172	452	388	96	34	174	48.8	12.6	160	BDL	8.7	2.6	12	0.80	0.32	68.4	14.2
6	River Satluj at D/s East Bein	1381	21.06.23	SW 17	ZO Lab LDH	52	106	144	402	341	74	31	180	45.6	16.0	148	BDL	4.8	2.5	6	0.77	0.34	50.5	9.4
7	River Satluj at Harike	1022	21.06.23	SW 20	ZO Lab LDH	18	64	80	202	176	25	28	116	30.4	9.7	120	BDL	1.1	2.0	1.7	0.53	0.17	19.1	4.6

- 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 June, 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	8.6.2023	SW 1845	H/o Lab Patiala	7.7	5.1	10	571	22000	2600	1.91	0.25	0.49	D
2	Ghaggar at Bhankarpur	1295	8.6.2023	SW 1846	H/o Lab Patiala	7.5	2.1	26	907	28000	3400	2.09	0.21	0.59	E
3	Ghaggar at Chattbir	1698	8.6.2023	SW 1847	H/o Lab Patiala	7.4	1.5	29	831	28000	3800	1.96	0.17	0.58	E
4	Ghaggar at U/s Jharmal Nadi	1702	8.6.2023	SW 1848	H/o Lab Patiala	7.4	2.8	17	738	22000	2700	2.01	0.16	0.51	E
5	Ghaggar at D/s Jharmal Nadi	1701	8.6.2023	SW 1849	H/o Lab Patiala	7.4	2.1	20	793	28000	3800	2.00	0.16	0.62	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	8.6.2023	SW 1851	H/o Lab Patiala	7.7	2.9	15	710	28000	3300	1.92	0.32	0.51	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	8.6.2023	SW 1852	H/o Lab Patiala	7.7	2.0	24	898	28000	3900	2.07	0.36	0.63	E
8	Ghaggar at Rattanheri	1473	9.6.2023	SW 1859	H/o Lab Patiala	7.6	2.8	25	941	28000	3900	2.18	0.29	0.75	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9.6.2023	SW 1860	H/o Lab Patiala	7.8	3.0	22	890	28000	3800	2.09	0.41	0.73	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9.6.2023	SW 1861	H/o Lab Patiala	7.7	2.3	29	1010	35000	4600	2.12	0.33	0.79	E
11	Ghaggar at Khanauri	1024	9.6.2023	SW 1864	H/o Lab Patiala	7.6	2.5	25	971	35000	4300	2.06	0.30	0.77	E
12	Ghaggar at Moonak	1703	9.6.2023	SW 1866	H/o Lab Patiala	7.7	2.0	32	1098	35000	5300	2.10	0.37	0.80	E
13	Ghaggar at U/s Sardulgarh	1705	12.6.2023	SW 1867	H/o Lab Patiala	7.9	5.6	13	548	21000	2100	1.74	0.37	0.52	D
14	Ghaggar at D/s Sardulgarh	1704	12.6.2023	SW 1868	H/o Lab Patiala	7.7	4.3	15	667	22000	2600	1.81	0.29	0.57	D

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1	Ghaggar at Mubarikpur Rest House	1023	8.6.2023	SW 1845	H/o Lab Patiala	55	610	605	371	317	40	14	163	42	14	253	BDL	8.2	1.3	11.5	2.9	1.3	56	24
2	Ghaggar at Bhankarpur	1295	8.6.2023	SW 1846	H/o Lab Patiala	117	460	380	587	501	86	27	360	91	32	297	BDL	10.6	2.6	14.8	2.8	1.7	91	50
3	Ghaggar at Chattbir	1698	8.6.2023	SW 1847	H/o Lab Patiala	120	470	433	541	462	80	24	324	82	29	272	BDL	11.0	2.3	15.4	2.8	1.9	81	49
4	Ghaggar at U/s Jharmal Nadi	1702	8.6.2023	SW 1848	H/o Lab Patiala	83	410	315	481	410	61	22	265	63	26	263	BDL	10.5	2.0	14.7	2.2	1.3	75	46
5	Ghaggar at D/s Jharmal Nadi	1701	8.6.2023	SW 1849	H/o Lab Patiala	98	370	319	515	438	63	26	288	69	28	286	BDL	10.8	2.4	15.1	2.6	1.8	78	49
6	Ghaggar at U/s Dhakanshu Nallah	1699	8.6.2023	SW 1851	H/o Lab Patiala	70	300	288	462	393	54	22	244	58	24	273	BDL	10.7	1.9	15.0	2.0	1.5	69	41
7	Ghaggar at D/s Dhakanshu Nallah	1700	8.6.2023	SW 1852	H/o Lab Patiala	102	430	418	586	499	84	29	351	89	31	298	BDL	11.9	2.9	16.7	2.9	2.0	89	52
8	Ghaggar at Rattanheri	1473	9.6.2023	SW 1859	H/o Lab Patiala	104	210	179	610	521	87	33	345	85	32	315	BDL	11.4	3.1	16.0	3.7	1.9	93	59
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9.6.2023	SW 1860	H/o Lab Patiala	99	200	175	581	494	83	31	324	81	29	309	BDL	11.6	3.0	16.2	3.2	1.7	86	52
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9.6.2023	SW 1861	H/o Lab Patiala	120	230	200	658	560	89	42	405	96	40	329	BDL	11.0	3.6	15.4	4.0	2.0	98	62
11	Ghaggar at Khanauri	1024	9.6.2023	SW 1864	H/o Lab Patiala	98	210	185	630	538	93	38	378	92	36	318	BDL	11.8	3.4	16.5	3.8	1.8	92	57
12	Ghaggar at Moonak	1703	9.6.2023	SW 1866	H/o Lab Patiala	124	270	230	714	610	98	50	467	101	52	348	BDL	12.2	3.9	17.1	4.3	2.2	104	66
13	Ghaggar at U/s Sardulgarh	1705	12.6.2023	SW 1867	H/o Lab Patiala	60	35	22	357	306	34	19	162	32	20	241	BDL	8.2	1.2	11.5	2.2	1.0	51	27
14	Ghaggar at D/s Sardulgarh	1704	12.6.2023	SW 1868	H/o Lab Patiala	76	65	50	435	371	50	26	229	47	27	262	BDL	9.6	1.7	13.4	2.8	1.3	63	35

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