

## Quality of Water of Polluted River stretches in Punjab for the month of July, 2024

### 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	09.07.2024	SW 173	ZO Lab LDH	8.0	7.9	BDL	307	630	210	BDL	0.20	0.15	C
2	River Satluj D/S of Rishab- Paper Mills	1293	09.07.2024	SW 174	ZO Lab LDH	8.0	7.9	BDL	310	940	210	BDL	0.20	0.23	C
3	River Satluj U/S Buddha Nallah	1690	12.07.2024	SW 178	ZO Lab LDH	8.0	7.2	BDL	311	940	320	BDL	0.21	0.34	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12.07.2024	SW 180	ZO Lab LDH	7.7	1.4	30	785	5,40,000	1,10,000	0.153	1.80	0.60	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.07.2024	SW 182	ZO Lab LDH	7.7	4.8	4.4	410	35,000	11,000	0.042	0.47	0.40	D
6	River Satluj at D/s East Bein	1381	15.07.2024	SW 183	ZO Lab LDH	7.5	4.5	5.6	462	28,000	9400	0.032	0.71	0.45	D
7	River Satluj at Harike	1022	15.07.2024	SW 184	ZO Lab LDH	7.8	6.3	2.8	292	3500	1300	BDL	0.33	0.25	C

S.N.	Point of Sample Collection	Code	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	SW 173	ZO Lab LDH	BDL	90	61	185	162	17	51	104	28	8.3	70	BDL	BDL	1.0	BDL	BDL	0.22	4.6	1.6
2	River Satluj D/S of Rishab- Paper Mills	1293	SW 174	ZO Lab LDH	BDL	95	73	188	164	16	47	106	28.8	8.3	68	BDL	BDL	0.8	BDL	BDL	0.27	4.7	1.6
3	River Satluj U/S Buddha Nallah	1690	SW 178	ZO Lab LDH	BDL	115	116	190	165	13	47	116	30.4	9.7	68	BDL	BDL	0.9	BDL	BDL	0.22	5.3	1.9
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW 180	ZO Lab LDH	124	95	188	477	392	122	68	190	51.2	15.1	228	BDL	5.1	1.5	7.2	2.3	0.36	57	7.2
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW 182	ZO Lab LDH	28	110	130	246	206	34	52	114	30.4	9.2	96	BDL	1.4	1.6	2.0	BDL	0.25	11.6	2.3
6	River Satluj at D/s East Bein	1381	SW 183	ZO Lab LDH	36	100	103	280	234	34	49	142	37.6	11.7	140	BDL	1.6	2.3	2.2	1.5	0.28	19.5	4.6
7	River Satluj at Harike	1022	SW 184	ZO Lab LDH	24	110	132	178	148	22	24	100	27.2	7.8	108	BDL	BDL	1.2	BDL	BDL	BDL	7.6	2.4

- 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, 2024 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	4/7/2024	SW 36	H/o Lab Patiala	7.6	6.4	7	513	21000	1700	1.81	0.23	0.47	D
2	Ghaggar at Bhankarpur	1295	4/7/2024	SW 37	H/o Lab Patiala	7.2	3.6	17	914	24000	2700	2.23	0.11	0.80	E
3	Ghaggar at Chattbir	1698	4/7/2024	SW 38	H/o Lab Patiala	7.6	3.5	19	947	24000	3400	2.30	0.28	0.80	E
4	Ghaggar at U/s Jharmal Nadi	1702	4/7/2024	SW 39	H/o Lab Patiala	7.7	4.1	12	721	24000	2700	1.85	0.37	0.67	D
5	Ghaggar at D/s Jharmal Nadi	1701	4/7/2024	SW40	H/o Lab Patiala	7.2	3.8	18	821	28000	3800	2.11	0.13	0.72	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	4/7/2024	SW 42	H/o Lab Patiala	7.4	4.0	12	710	24000	3400	2.03	0.19	0.67	D
7	Ghaggar at D/s Dhakanshu Nallah	1700	4/7/2024	SW 43	H/o Lab Patiala	7.4	3.2	20	974	28000	3900	2.32	0.19	0.91	E
8	Ghaggar at Rattanheri	1473	3/7/2024	SW 28	H/o Lab Patiala	7.9	3.2	20	1029	28000	3800	2.35	0.58	0.92	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	3/7/2024	SW 29	H/o Lab Patiala	7.8	3.3	19	991	28000	3800	2.30	0.48	0.90	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	3/7/2024	SW 30	H/o Lab Patiala	7.9	2.4	23	1107	35000	4600	2.57	0.56	0.93	E
11	Ghaggar at Khanauri	1024	3/7/2024	SW 33	H/o Lab Patiala	7.8	2.9	22	1033	35000	3900	2.45	0.44	0.91	E
12	Ghaggar at Moonak	1703	3/7/2024	SW 35	H/o Lab Patiala	7.7	2.6	25	1167	35000	5800	2.40	0.39	0.95	E
13	Ghaggar at U/s Sardulgarh	1705	5/7/2024	SW 49	H/o Lab Patiala	7.5	5.4	7	414	21000	1700	1.39	0.18	0.31	D
14	Ghaggar at D/s Sardulgarh	1704	5/7/2024	SW 50	H/o Lab Patiala	7.4	4.6	8	692	21000	2100	1.70	0.15	0.45	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 36	H/o Lab Patiala	35	490	493	335	287	42	9	134	37	10	245	BDL	9.3	1.1	13.0	1.3	1.1	48	11
2	Ghaggar at Bhankarpur	1295	SW 37	H/o Lab Patiala	82	470	422	597	510	9	20	373	79	31	319	BDL	10.6	1.3	14.8	1.5	1.4	99	46
3	Ghaggar at Chattbir	1698	SW 38	H/o Lab Patiala	85	400	388	617	527	92	27	358	97	28	321	BDL	11.1	1.3	15.5	1.5	1.4	100	47
4	Ghaggar at U/s Jharmal Nadi	1702	SW 39	H/o Lab Patiala	69	400	336	467	398	59	20	249	63	22	291	BDL	12.3	1.2	17.2	1.3	1.2	67	32
5	Ghaggar at D/s Jharmal Nadi	1701	SW40	H/o Lab Patiala	89	430	334	534	454	78	20	300	87	20	305	BDL	12.7	1.3	17.8	1.5	1.3	84	31
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 42	H/o Lab Patiala	61	270	264	458	391	60	19	226	64	16	290	BDL	12.4	1.2	17.4	1.4	1.2	70	24
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 43	H/o Lab Patiala	95	310	368	635	541	98	31	389	98	35	317	BDL	12.7	1.5	17.8	1.4	1.4	105	45
8	Ghaggar at Rattanheri	1473	SW 28	H/o Lab Patiala	92	310	269	667	567	100	34	406	100	38	333	BDL	12.8	2.4	17.9	2.6	2.1	109	54
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 29	H/o Lab Patiala	90	320	263	647	651	100	32	387	97	35	316	BDL	13.6	2.2	17.6	2.5	2.2	104	53
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 30	H/o Lab Patiala	105	370	357	721	614	106	38	441	110	40	341	BDL	12.4	2.4	17.4	2.6	2.2	124	63
11	Ghaggar at Khanauri	1024	SW 33	H/o Lab Patiala	98	350	325	672	573	98	32	404	99	38	328	BDL	12.7	2.4	17.8	2.6	2.7	113	62
12	Ghaggar at Moonak	1703	SW 35	H/o Lab Patiala	109	360	345	761	648	111	46	515	117	54	347	BDL	13.1	3.0	18.3	2.7	2.9	125	65
13	Ghaggar at U/s Sardulgarh	1705	SW 49	H/o Lab Patiala	49	40	38	309	263	34	9	121	35	8	243	BDL	9.2	1.2	12.9	1.1	1.2	35	17
14	Ghaggar at D/s Sardulgarh	1704	SW 50	H/o Lab Patiala	54	70	65	429	366	47	19	235	61	20	281	BDL	10.2	1.3	14.3	1.3	1.2	60	24

- Note. 1. BDL means Below Method Detection Limit**  
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