

Quality of Water of Polluted River stretches in Punjab for the month of June, 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 µs/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	07.06.2024	SW 110	ZO Lab LDH	7.6	8.0	1.1	276	630	260	BDL	0.31	0.16	C
2	River Satluj D/S of Rishab- Paper Mills	1293	07.06.2024	SW 111	ZO Lab LDH	8.0	7.3	1.2	303	790	270	0.040	0.35	0.30	C
3	River Satluj U/S Buddha Nallah	1690	11.06.2024	SW 118	ZO Lab LDH	7.8	6.5	1.2	284	1100	330	0.038	0.29	0.50	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.06.2024	SW 120	ZO Lab LDH	7.7	2.6	9.2	434	3,50,000	1,10,000	0.084	1.42	0.80	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.06.2024	SW 124	ZO Lab LDH	7.7	5.5	1.8	314	35,000	11,000	0.042	0.83	0.33	D
6	River Satluj at D/s East Bein	1381	12.06.2024	SW 125	ZO Lab LDH	7.2	4.2	2.8	363	21,000	9400	0.018	1.06	0.30	D
7	River Satluj at Harike	1022	12.06.2024	SW 126	ZO Lab LDH	7.5	6.3	1.6	262	2400	790	0.018	0.70	0.22	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 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	SW 110	ZO Lab Ldh	8	31	26	179	156	12	39	106	28	8.7	74	BDL	BDL	3	BDL	0.26	0.24	7.3	2.3
2	River Satluj D/S of Rishab- Paper Mills	1293	SW 111	ZO Lab Ldh	12	36	51	197	173	14	39	106	28.8	8.3	92	BDL	0.8	2.2	1.5	BDL	0.22	8.4	2.4
3	River Satluj U/S Buddha Nallah	1690	SW 118	ZO Lab Ldh	12	50	62	209	184	17	63	102	27.2	8.3	90	BDL	1.1	3.1	1.7	0.23	0.22	6.8	2.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW 120	ZO Lab Ldh	40	95	138	338	268	58	59	144	38.4	11.7	136	BDL	2.8	3.2	3.9	0.84	0.45	39.1	5.3
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW 124	ZO Lab Ldh	14	65	87	240	201	28	58	120	32.8	9.2	98	BDL	1.4	3.2	1.9	0.61	0.34	20.9	3.7
6	River Satluj at D/s East Bein	1381	SW 125	ZO Lab Ldh	20	50	65	260	205	35	51	134	36	10.7	112	BDL	1.8	3.4	2.6	0.67	0.35	28.2	5.7
7	River Satluj at Harike	1022	SW 126	ZO Lab Ldh	13	45	42	207	167	20	42	90	24.8	6.8	102	BDL	0.9	2.9	1.6	0.23	0.29	15.3	3.7

- 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, 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 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	13/6/2024	SW 1	H/o Lab Patiala	7.8	5.9	7	491	21000	2100	1.82	0.31	0.45	D
2	Ghaggar at Bhankarpur	1295	13/6/2024	SW 2	H/o Lab Patiala	7.4	3.3	19	888	24000	3400	2.23	0.15	0.78	E
3	Ghaggar at Chattbir	1698	13/6/2024	SW 3	H/o Lab Patiala	7.6	3.2	18	902	24000	3400	2.29	0.27	0.80	E
4	Ghaggar at U/s Jharmal Nadi	1702	13/6/2024	SW 4	H/o Lab Patiala	7.6	4.0	14	687	24000	2700	1.84	0.30	0.65	D
5	Ghaggar at D/s Jharmal Nadi	1701	13/6/2024	SW 5	H/o Lab Patiala	7.7	3.3	17	841	24000	3400	2.21	0.37	0.77	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	13/6/2024	SW 7	H/o Lab Patiala	7.8	3.9	14	691	22000	2600	2.08	0.41	0.64	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	13/6/2024	SW 8	H/o Lab Patiala	7.7	3.5	18	953	24000	2700	2.20	0.36	0.85	E
8	Ghaggar at Rattanheri	1473	19/6/2024	SW 15	H/o Lab Patiala	7.6	2.1	18	1019	28000	3900	2.34	0.30	0.82	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	19/6/2024	SW 16	H/o Lab Patiala	7.8	2.8	17	967	28000	3900	2.38	0.42	0.80	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	19/6/2024	SW 17	H/o Lab Patiala	7.8	2.0	20	1081	35000	4600	2.51	0.41	0.89	E
11	Ghaggar at Khanauri	1024	19/6/2024	SW 20	H/o Lab Patiala	7.6	3.4	19	993	28000	3900	2.37	0.31	0.86	E
12	Ghaggar at Moonak	1703	19/6/2024	SW 22	H/o Lab Patiala	7.6	3.3	21	1151	35000	4700	2.35	0.31	0.92	E
13	Ghaggar at U/s Sardulgarh	1705	21/6/2024	SW 25	H/o Lab Patiala	7.7	6.4	8	449	21000	2100	1.41	0.26	0.28	D
14	Ghaggar at D/s Sardulgarh	1704	21/6/2024	SW 26	H/o Lab Patiala	7.7	5.2	9	625	22000	2300	1.59	0.28	0.44	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 1	H/o Lab Patiala	36	540	575	316	269	40	8	121	35	8	242	BDL	8.9	1.0	12.5	1.1	1.0	46	10
2	Ghaggar at Bhankarpur	1295	SW 2	H/o Lab Patiala	92	490	635	579	493	75	19	359	96	29	310	BDL	10.2	1.3	14.3	1.4	1.3	97	42
3	Ghaggar at Chattbir	1698	SW 3	H/o Lab Patiala	88	530	491	587	499	91	20	346	94	27	317	BDL	10.7	1.3	15.0	1.3	1.3	98	46
4	Ghaggar at U/s Jharmal Nadi	1702	SW 4	H/o Lab Patiala	62	410	311	447	381	55	15	236	60	21	281	BDL	11.9	1.4	16.7	1.3	1.5	65	30
5	Ghaggar at D/s Jharmal Nadi	1701	SW 5	H/o Lab Patiala	80	430	382	547	467	83	22	301	86	21	298	BDL	12.2	1.4	17.1	1.3	1.4	88	35
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 7	H/o Lab Patiala	65	370	329	449	383	63	20	220	60	17	265	BDL	11.8	1.1	16.5	1.3	1.2	71	26
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 8	H/o Lab Patiala	85	430	370	621	531	95	29	376	96	33	315	BDL	12.1	1.4	16.9	1.3	1.4	98	43
8	Ghaggar at Rattanheri	1473	SW 15	H/o Lab Patiala	85	310	238	659	563	101	33	397	98	37	328	BDL	12.0	2.2	16.8	2.4	2.0	107	53
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 16	H/o Lab Patiala	80	300	237	629	537	98	30	376	96	33	321	BDL	12.0	2.0	16.8	2.3	2.0	106	52
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 17	H/o Lab Patiala	98	330	240	708	604	102	37	439	108	41	336	BDL	11.6	2.2	16.2	2.5	2.1	121	58
11	Ghaggar at Khanauri	1024	SW 20	H/o Lab Patiala	85	310	281	645	551	95	27	387	97	35	324	BDL	12.2	2.2	17.1	2.4	2.5	107	56
12	Ghaggar at Moonak	1703	SW 22	H/o Lab Patiala	92	340	297	746	638	109	45	502	115	52	345	BDL	12.4	2.9	17.4	2.5	2.8	121	60
13	Ghaggar at U/s Sardulgarh	1705	SW 25	H/o Lab Patiala	46	40	38	293	251	33	8	104	30	7	228	BDL	8.5	1.1	11.9	1.0	1.1	33	16
14	Ghaggar at D/s Sardulgarh	1704	SW 26	H/o Lab Patiala	53	60	59	409	349	45	17	218	56	19	271	BDL	9.3	1.2	13.0	1.1	1.2	54	22

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