

Quality of Water of Polluted River stretches in Punjab for the month of May, 2021

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 μ 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	10.05.21	SW 2025	ZO Lab Ldh	7.9	7.6	BDL	256	940	320	BDL	0.18	0.19	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	10.05.21	SW 2026	ZO Lab Ldh	8.0	7.3	BDL	273	940	330	BDL	0.21	0.38	C	S
3	River Satluj U/S Buddha Nallah	1690	08.05.21	SW 2012	ZO Lab Ldh	7.6	5.2	2.4	362	2800	790	0.025	0.45	0.32	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.05.21	SW 2014	ZO Lab Ldh	7.1	BDL	61	925	26,00,000	11,00,000	0.009	1.93	0.54	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	08.05.21	SW 2016	ZO Lab Ldh	7.1	1.0	22	571	5,40,000	1,40,000	0.004	1.18	0.20	E	U
6	River Satluj at D/s East Bein	1381	08.05.21	SW 2017	ZO Lab Jal.	7.2	1.8	16	567	7,00,000	2,60,000	0.082	1.22	0.55	E	U
7	River Satluj at Harike	1022	17.05.21	SW 2027	ZO Lab Ldh	7.7	4.1	2.6	410	4600	1700	0.126	0.53	0.47	D	U

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 ₄ mg/l	TH mg/l	Ca mg/l	Mg mg/l	T.Akn mg/l	P.Akn 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	10.05.21	SW 2025	ZO Lab Ldh	BDL	3	9	155	135	13	10	152	36.8	14.6	98	BDL	BDL	1.9	BDL	BDL	0.23	5.1	1.6
2	River Satluj D/S of Rishab- Paper Mills	1293	10.05.21	SW 2026	ZO Lab Ldh	BDL	6	33	169	146	17	12	150	35.2	15.1	98	BDL	BDL	1.7	BDL	BDL	0.25	5.8	1.9
3	River Satluj U/S Buddha Nallah	1690	08.05.21	SW 2012	ZO Lab Ldh	22	16	30	219	178	28	21	148	34.4	15.1	116	BDL	1.0	2.4	1.5	0.58	0.31	12.6	3.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.05.21	SW 2014	ZO Lab Ldh	234	110	168	632	469	145	62	250	60	24.3	300	BDL	17.3	3.4	23.5	7.2	0.39	70.3	27.7
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	08.05.21	SW 2016	ZO Lab Ldh	97	60	74	402	332	71	65	176	44	16.0	152	BDL	7.6	2.4	10.2	6.6	0.25	35.9	21.4
6	River Satluj at D/s East Bein	1381	08.05.21	SW 2017	ZO Lab Ldh	71	40	47	346	286	68	51	160	39.2	15.1	140	BDL	8.2	2.6	11.4	7.2	0.26	35.6	5.2
7	River Satluj at Harike	1022	17.05.21	SW 2027	ZO Lab Ldh	24	16	21	247	212	36	21	130	31.2	12.6	132	BDL	4.2	2.2	6.2	1.11	0.25	13.9	3.1

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, 2021
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	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	11/5/21	SW 3976	H/o Lab Patiala	7.9	6.1	20	672	22000	3200	0.40	1.89	0.41	D	U
2	Ghaggar at Bhankarpur	1295	11/5/21	SW 3977	H/o Lab Patiala	7.8	2.1	37	858	28000	5800	0.49	2.34	0.67	E	U
3	Ghaggar at Chattbir	1698	11/5/21	SW 3978	H/o Lab Patiala	7.8	2.3	43	995	35000	6300	0.45	2.44	0.64	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/21	SW 3979	H/o Lab Patiala	7.9	2.9	33	855	28000	4700	0.48	2.19	0.58	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/21	SW 3980	H/o Lab Patiala	7.6	3.4	38	998	35000	4900	0.31	2.18	0.69	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/21	SW 4002	H/o Lab Patiala	7.8	2.9	22	774	28000	4000	0.37	2.14	0.62	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/21	SW 4003	H/o Lab Patiala	7.7	2.7	27	876	35000	5800	0.34	2.13	0.68	E	U
8	Ghaggar at Rattanheri	1473	12/4/21	SW 3993	H/o Lab Patiala	7.6	1.2	42	1128	35000	4900	0.35	2.76	0.91	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/4/21	SW 3994	H/o Lab Patiala	7.8	1.4	43	1155	35000	4700	0.49	2.78	0.90	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/4/21	SW 3995	H/o Lab Patiala	7.7	1.1	47	1252	35000	4900	0.40	2.75	0.93	E	U
11	Ghaggar at Khanauri	1024	12/4/21	SW 3998	H/o Lab Patiala	7.7	1.3	37	995	28000	4600	0.38	2.57	0.80	E	U
12	Ghaggar at Moonak	1703	12/4/21	SW 4000	H/o Lab Patiala	7.7	1.2	41	1090	35000	5800	0.40	2.59	0.84	E	U
13	Ghaggar at U/s Sardulgarh	1705	22/4/21	SW 4064	H/o Lab Patiala	7.4	5.9	14	619	17000	2700	0.13	1.40	0.50	D	U
14	Ghaggar at D/s Sardulgarh	1704	22/4/21	SW 4065	H/o Lab Patiala	7.8	4.8	16	715	24000	3400	0.32	1.90	0.57	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	11/5/21	SW 3976	H/o Lab Patiala	102	375	413	435	371	56	31	219	51	22	236	BDL	8.9	1.3	12.5	1.1	1.3	64	33
2	Ghaggar at Bhankarpur	1295	11/5/21	SW 3977	H/o Lab Patiala	172	360	297	554	472	74	38	319	73	33	262	BDL	13.9	1.4	19.5	2.9	1.4	96	47
3	Ghaggar at Chattbir	1698	11/5/21	SW 3978	H/o Lab Patiala	205	290	258	647	552	91	47	379	87	39	293	BDL	12.9	1.6	18.1	3.1	1.4	109	58
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/21	SW 3979	H/o Lab Patiala	155	310	324	555	473	84	38	335	78	34	253	BDL	10.7	1.4	15.0	2.7	1.3	92	42
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/21	SW 3980	H/o Lab Patiala	188	390	397	648	553	97	47	432	93	48	264	BDL	12.4	1.5	17.4	3.0	1.4	104	61
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/21	SW 4002	H/o Lab Patiala	110	110	147	503	429	63	35	280	59	32	249	BDL	10.5	1.2	14.7	1.9	1.3	82	43
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/21	SW 4003	H/o Lab Patiala	128	130	173	570	481	84	42	339	71	39	263	BDL	11.2	1.4	15.7	2.3	1.3	90	49
8	Ghaggar at Rattanheri	1473	12/4/21	SW 3993	H/o Lab Patiala	198	30	58	734	625	99	50	508	98	64	281	BDL	13.9	2.9	19.5	3.4	1.6	143	71
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	12/4/21	SW 3994	H/o Lab Patiala	204	35	64	752	638	102	53	529	101	67	284	BDL	14.0	2.9	19.6	3.5	1.6	147	74
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	12/4/21	SW 3995	H/o Lab Patiala	224	50	71	812	691	112	64	588	113	74	293	BDL	13.2	3.8	18.5	3.9	1.9	153	82
11	Ghaggar at Khanauri	1024	12/4/21	SW 3998	H/o Lab Patiala	179	50	82	648	551	87	41	407	82	49	278	BDL	12.8	2.5	17.9	2.1	1.3	119	62
12	Ghaggar at Moonak	1703	12/4/21	SW 4000	H/o Lab Patiala	194	60	91	709	603	97	52	471	91	59	286	BDL	13.4	3.1	18.8	2.6	1.5	129	69
13	Ghaggar at U/s Sardulgarh	1705	22/4/21	SW 4064	H/o Lab Patiala	68	25	36	403	344	47	33	323	43	30	229	BDL	8.8	2.5	12.3	1.8	1.3	49	29
14	Ghaggar at D/s Sardulgarh	1704	22/4/21	SW 4065	H/o Lab Patiala	77	35	43	464	395	52	35	273	58	31	239	BDL	9.2	2.7	12.9	2.0	1.3	72	39

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