

**Quality of Water of Polluted River stretches in Punjab for the month of September, 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 $\mu$ 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	14.09.2021	SW 2212	ZO Lab LDH	8.0	7.5	BDL	272	2200	1100	BDL	0.29	0.30	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	14.09.2021	SW 2213	ZO Lab LDH	7.6	7.2	BDL	300	2100	1300	BDL	0.31	0.38	C	S
3	River Satluj U/S Buddha Nallah	1690	15.09.2021	SW 2219	ZO Lab LDH	7.3	4.3	1.4	319	4700	2600	BDL	0.48	0.49	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	15.09.2021	SW 2221	ZO Lab LDH	7.4	BDL	26	776	1,10,00,000	70,00,000	0.117	2.29	0.61	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.09.2021	SW 2225	ZO Lab LDH	7.3	3.0	9	615	8,40,000	2,30,000	0.014	2.14	0.49	E	U
6	River Satluj at D/s East Bein	1381	20.09.2021	SW 2226	ZO Lab LDH	7.3	2.8	11	645	6,30,000	3,30,000	0.034	1.97	0.58	E	U
7	River Satluj at Harike	1022	20.09.2021	SW 2227	ZO Lab LDH	8.0	7.6	1.9	246	4900	1700	0.040	0.41	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 <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	14.09.2021	SW 2212	ZO Lab Ldh	BDL	3	BDL	152	133	7	7	108	28	9.2	97	BDL	BDL	2	BDL	BDL	0.24	6.9	1.5
2	River Satluj D/S of Rishab- Paper Mills	1293	14.09.2021	SW 2213	ZO Lab Ldh	BDL	5	BDL	173	146	12	11	114	29.6	9.7	111	BDL	BDL	2.1	BDL	BDL	0.44	7.7	1.9
3	River Satluj U/S Buddha Nallah	1690	15.09.2021	SW 2219	ZO Lab Ldh	11	8	91	195	163	17	21	128	32.8	11.2	112	BDL	BDL	2.6	BDL	0.21	0.29	12.4	2.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	15.09.2021	SW 2221	ZO Lab LDH	104	95	128	478	376	73	33	198	50.4	17.5	210	BDL	7.8	3.3	12.4	1.22	0.68	74	8.1
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.09.2021	SW 2225	ZO Lab LDH	42	55	62	355	291	39	28	154	33.6	17.0	153	BDL	1.4	2.2	2.2	0.56	0.31	57	6.1
6	River Satluj at D/s East Bein	1381	20.09.2021	SW 2226	ZO Lab LDH	49	65	78	388	309	46	34	176	38.4	19.4	216	BDL	3.4	2.4	4.7	0.63	0.22	60	6.6
7	River Satluj at Harike	1022	20.09.2021	SW 2227	ZO Lab LDH	10	90	104	143	124	27	19	94	24.8	7.8	96	BDL	0.8	2	1.6	0.16	0.21	10	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 September, 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 $\mu$ s/Cm	T.Coli MPN/ 100ml	F. Coli MPN/ 100ml	Free Amm. mg/l	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	13/9/21	SW 107	H/o Lab Patiala	7.9	6.8	12	458	17000	2100	0.33	1.81	0.31	D	U
2	Ghaggar at Bhankarpur	1295	13/9/21	SW 108	H/o Lab Patiala	7.3	3.1	19	670	22000	3200	0.09	1.88	0.49	E	U
3	Ghaggar at Chattbir	1698	13/9/21	SW 109	H/o Lab Patiala	7.0	3.2	20	695	28000	3800	BDL	1.80	0.46	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	13/9/21	SW 110	H/o Lab Patiala	7.3	4.2	14	538	22000	2700	0.10	1.80	0.38	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	13/9/21	SW 111	H/o Lab Patiala	7.2	3.0	18	631	28000	3900	0.10	1.80	0.52	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	13/9/21	SW 113	H/o Lab Patiala	7.2	3.0	16	578	24000	3400	0.11	1.65	0.44	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	13/9/21	SW 114	H/o Lab Patiala	7.1	2.6	19	692	28000	3900	BDL	1.89	0.57	E	U
8	Ghaggar at Rattanheri	1473	16/9/21	SW 5137	H/o Lab Patiala	7.6	3.2	15	632	28000	4000	0.32	1.98	0.69	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/9/21	SW 5138	H/o Lab Patiala	7.0	3.7	14	610	28000	3800	BDL	2.03	0.64	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/9/21	SW 5139	H/o Lab Patiala	7.5	3.1	16	672	35000	4600	0.28	1.99	0.71	E	U
11	Ghaggar at Khanauri	1024	16/9/21	SW 5142	H/o Lab Patiala	7.6	3.8	15	592	28000	3200	0.33	2.11	0.61	E	U
12	Ghaggar at Moonak	1703	16/9/21	SW 5144	H/o Lab Patiala	7.7	3.4	16	665	35000	4700	0.46	2.09	0.66	E	U
13	Ghaggar at U/s Sardulgarh	1705	24/9/21	SW 5164	H/o Lab Patiala	7.9	6.1	8	391	17000	2100	0.32	1.53	0.30	D	U
14	Ghaggar at D/s Sardulgarh	1704	24/9/21	SW 5165	H/o Lab Patiala	7.6	5.5	9	451	21000	2600	0.21	1.62	0.38	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	13/9/21	SW 107	H/o Lab Patiala	49	470	415	299	255	30	12	123	31	11	206	BDL	7.3	1.0	10.2	1.4	1.1	46	18
2	Ghaggar at Bhankarpur	1295	13/9/21	SW 108	H/o Lab Patiala	87	410	405	387	329	49	20	206	51	19	234	BDL	9.1	1.4	12.7	1.7	1.3	62	29
3	Ghaggar at Chattbir	1698	13/9/21	SW 109	H/o Lab Patiala	92	340	372	445	379	57	24	262	62	26	239	BDL	10.3	1.6	14.4	1.9	1.5	67	32
4	Ghaggar at U/s Jharmal Nadi	1702	13/9/21	SW 110	H/o Lab Patiala	66	310	270	347	296	38	19	165	41	15	213	BDL	9.9	1.2	13.9	1.5	1.3	53	26
5	Ghaggar at D/s Jharmal Nadi	1701	13/9/21	SW 111	H/o Lab Patiala	81	345	282	409	348	52	20	234	57	22	221	BDL	10.5	1.3	14.7	1.6	1.1	63	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	13/9/21	SW 113	H/o Lab Patiala	78	280	265	376	321	49	16	203	53	17	218	BDL	10.9	1.1	15.3	1.4	1.2	54	26
7	Ghaggar at D/s Dhakanshu Nallah	1700	13/9/21	SW 114	H/o Lab Patiala	88	290	301	445	379	56	23	253	60	25	236	BDL	11.2	1.3	15.7	1.5	1.3	69	36
8	Ghaggar at Rattanheri	1473	16/9/21	SW 5137	H/o Lab Patiala	72	250	265	406	345	52	17	205	49	20	224	BDL	15.9	1.2	22.3	1.6	1.2	65	35
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	16/9/21	SW 5138	H/o Lab Patiala	68	240	261	400	341	49	16	189	46	18	220	BDL	15.5	1.2	21.7	1.6	1.2	64	36
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	16/9/21	SW 5139	H/o Lab Patiala	77	255	267	412	351	53	19	221	54	21	227	BDL	19.2	1.2	19.9	1.7	1.2	68	39
11	Ghaggar at Khanauri	1024	16/9/21	SW 5142	H/o Lab Patiala	65	200	192	383	327	42	15	169	41	16	226	BDL	13.2	1.1	18.5	1.4	1.1	63	29
12	Ghaggar at Moonak	1703	16/9/21	SW 5144	H/o Lab Patiala	73	215	204	431	369	49	21	207	50	20	240	BDL	15.2	1.2	21.3	1.5	1.2	69	38
13	Ghaggar at U/s Sardulgarh	1705	24/9/21	SW 5164	H/o Lab Patiala	34	45	58	254	216	24	10	116	25	9	184	BDL	7.1	1.0	10.0	1.1	1.0	35	14
14	Ghaggar at D/s Sardulgarh	1704	24/9/21	SW 5165	H/o Lab Patiala	57	50	62	296	252	29	11	133	32	13	203	BDL	8.4	1.0	11.8	1.2	1.0	43	16

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