

**Quality of Water of Polluted River stretches in Punjab for the month of January, 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 µs/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	07.01.2021	SW 1806	ZO Lab Ldh	8.0	9.3	<1	255	920	180	BDL	0.16	0.13	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	07.01.2021	SW 1807	ZO Lab Ldh	8.3	9.2	<1	251	1100	200	BDL	0.16	0.37	C	S
3	River Satluj U/S Buddha Nallah	1690	08.01.2021	SW 1809	ZO Lab Ldh	8.2	7.8	1.2	305	2100	200	BDL	0.22	0.18	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.01.2021	SW 1811	ZO Lab Ldh	7.1	BDL	37	718	17,00,000	3,10,000	0.002	1.43	0.38	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.01.2021	SW 1813	ZO Lab Ldh	7.7	3.0	13	639	92,000	11,000	0.102	1.16	0.19	E	U
6	River Satluj at D/s East Bein	1381	11.01.2021	SW 1814	ZO Lab Jal.	8.0	2.9	14	720	7,90,000	1,30,000	0.180	1.95	0.29	E	U
7	River Satluj at Harike	1022	11.01.2021	SW 1815	ZO Lab Ldh	7.8	6.8	3.0	328	2100	680	0.035	0.80	0.35	C	S

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	07.01.2021	SW 1806	ZO Lab Ldh	<5	5	BDL	133	108	12	15	102	25.6	9.2	62	BDL	BDL	1.3	BDL	BDL	0.21	3.6	0.9
2	River Satluj D/S of Rishab- Paper Mills	1293	07.01.2021	SW 1807	ZO Lab Ldh	<5	5	BDL	141	115	12	16	94	20.8	10.2	84	BDL	BDL	1.2	BDL	BDL	0.18	3.4	0.9
3	River Satluj U/S Buddha Nallah	1690	08.01.2021	SW 1809	ZO Lab Ldh	7	23	44	173	143	28	21	106	23.2	11.7	98	BDL	BDL	1.6	BDL	0.44	0.24	5	1.2
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	08.01.2021	SW 1811	ZO Lab Ldh	164	65	140	436	377	123	32	120	28.8	11.7	228	BDL	5.0	1.8	6.9	3.49	0.36	36	4.3
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.01.2021	SW 1813	ZO Lab Ldh	68	25	43	385	332	104	28	110	26.4	10.7	202	BDL	3.4	1.5	4.7	1.29	0.28	28	3.3
6	River Satluj at D/s East Bein	1381	11.01.2021	SW 1814	ZO Lab Ldh	73	37	71	436	358	114	31	114	27.2	11.2	218	BDL	3.6	1.5	4.9	1.90	0.29	48	6.8
7	River Satluj at Harike	1022	11.01.2021	SW 1815	ZO Lab Ldh	21	35	55	199	171	37	26	96	23.2	9.2	124	BDL	1.0	1.3	1.6	0.87	0.21	18	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 January, 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	7/1/21	SW 3601	H/o Lab Patiala	7.8	6.0	11	537	24000	3100	0.32	1.83	0.29	D	U
2	Ghaggar at Bhankarpur	1295	7/1/21	SW 3602	H/o Lab Patiala	7.4	3.2	33	731	28000	3400	0.20	2.11	0.92	E	U
3	Ghaggar at Chattbir	1698	7/1/21	SW 3603	H/o Lab Patiala	7.3	3.0	29	785	28000	3200	0.13	2.34	0.48	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	7/1/21	SW 3604	H/o Lab Patiala	7.5	3.4	18	696	28000	3300	0.23	2.26	0.36	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	7/1/21	SW 3605	H/o Lab Patiala	7.8	3.1	25	840	35000	4000	0.48	2.51	0.52	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	7/1/21	SW 3607	H/o Lab Patiala	7.6	3.7	19	691	24000	3300	0.27	1.98	0.51	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	7/1/21	SW 3608	H/o Lab Patiala	7.4	3.4	26	886	28000	3800	0.19	2.15	0.62	E	U
8	Ghaggar at Rattanheri	1473	11/1/21	SW 3615	H/o Lab Patiala	7.6	2.0	24	866	28000	4000	0.33	2.16	0.80	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/1/21	SW 316	H/o Lab Patiala	7.7	1.7	28	902	28000	4600	0.41	2.23	0.84	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/1/21	SW 3617	H/o Lab Patiala	7.6	1.5	34	1102	35000	4700	0.33	2.32	0.85	E	U
11	Ghaggar at Khanauri	1024	11/1/21	SW 3620	H/o Lab Patiala	7.7	3.0	22	858	28000	4600	0.41	2.09	0.71	E	U
12	Ghaggar at Moonak	1703	11/1/21	SW 3622	H/o Lab Patiala	7.8	2.8	27	995	35000	5800	0.51	2.21	0.74	E	U
13	Ghaggar at U/s Sardulgarh	1705	15/1/21	SW 3646	H/o Lab Patiala	7.8	4.6	9	554	17000	2600	0.32	1.60	0.49	D	U
14	Ghaggar at D/s Sardulgarh	1704	15/1/21	SW 3647	H/o Lab Patiala	7.7	4.1	11	640	22000	3100	0.30	1.78	0.52	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	7/1/21	SW 3601	H/o Lab Patiala	53	370	372	349	297	40	23	141	35	13	219	BDL	9.0	1.1	12.6	0.75	1.2	50	26
2	Ghaggar at Bhankarpur	1295	7/1/21	SW 3602	H/o Lab Patiala	167	100	212	475	404	71	29	280	69	26	226	BDL	13.3	1.2	18.6	2.4	1.7	81	30
3	Ghaggar at Chattbir	1698	7/1/21	SW 3603	H/o Lab Patiala	143	120	182	510	434	75	31	306	73	30	235	BDL	12.9	1.2	18.0	2.3	1.3	94	34
4	Ghaggar at U/s Jharmal Nadi	1702	7/1/21	SW 3604	H/o Lab Patiala	90	110	132	452	249	63	25	215	48	23	231	BDL	11.6	1.1	16.2	2.0	1.2	76	47
5	Ghaggar at D/s Jharmal Nadi	1701	7/1/21	SW 3605	H/o Lab Patiala	124	130	194	546	464	78	34	290	63	32	258	BDL	13.6	1.4	19.0	2.6	1.4	98	53
6	Ghaggar at U/s Dhakanshu Nallah	1699	7/1/21	SW 3607	H/o Lab Patiala	93	75	97	449	382	69	30	217	47	24	238	BDL	10.3	1.2	14.4	1.7	1.1	67	37
7	Ghaggar at D/s Dhakanshu Nallah	1700	7/1/21	SW 3608	H/o Lab Patiala	131	80	96	576	490	79	38	332	77	34	268	BDL	12.7	1.4	17.8	2.2	1.3	90	59
8	Ghaggar at Rattanheri	1473	11/1/21	SW 3615	H/o Lab Patiala	120	60	78	563	479	86	37	383	79	45	247	BDL	13.1	1.3	18.3	2.1	1.2	97	38
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/1/21	SW 316	H/o Lab Patiala	142	55	68	586	498	90	40	403	82	48	250	BDL	13.5	1.3	18.9	2.5	1.3	103	40
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/1/21	SW 3617	H/o Lab Patiala	169	60	71	670	570	103	56	481	92	61	262	BDL	13.0	1.3	18.2	2.7	1.4	117	51
11	Ghaggar at Khanauri	1024	11/1/21	SW 3620	H/o Lab Patiala	111	55	67	558	474	76	37	399	77	50	251	BDL	13.7	1.2	19.2	1.8	1.2	96	39
12	Ghaggar at Moonak	1703	11/1/21	SW 3622	H/o Lab Patiala	135	60	69	647	550	88	46	478	97	57	271	BDL	14.6	1.3	20.4	2.6	1.3	111	52
13	Ghaggar at U/s Sardulgarh	1705	15/1/21	SW 3646	H/o Lab Patiala	44	30	43	360	306	49	17	171	45	14	221	BDL	9.0	1.0	12.6	1.3	1.1	48	21
14	Ghaggar at D/s Sardulgarh	1704	15/1/21	SW 3647	H/o Lab Patiala	56	35	51	413	351	58	22	208	52	19	233	BDL	10.1	1.1	14.1	1.5	1.1	59	30

Note. 1. BDL means Below Method Detection Limit

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3. Water Quality Index ( S means Satisfactory, U means Unsatisfactory)