

Quality of Water of Polluted River stretches in Punjab for the month of December, 2020
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	11.12.20	SW 1755	ZO Lab Ldh	8.4	8.9	<1	229	1000	400	BDL	0.30	0.12	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	11.12.20	SW 1756	ZO Lab Ldh	7.9	8.6	<1	331	1200	400	BDL	0.34	0.38	C	S
3	River Satluj U/S Buddha Nallah	1690	14.12.20	SW 1761	ZO Lab Ldh	7.8	7.1	1.8	382	6300	1300	BDL	0.48	0.10	D	U
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.12.20	SW 1763	ZO Lab Ldh	7.4	BDL	38	1410	15,00,000	4,60,000	0.315	3.07	0.33	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.12.20	SW 1772	ZO Lab Ldh	7.6	3.8	8.2	489	58,000	11,000	0.115	1.66	0.18	E	U
6	River Satluj at D/s East Bein	1381	21.12.20	SW 1773	ZO Lab Jal.	7.4	2.9	9.6	566	1,10,000	22,000	0.078	1.90	0.29	E	U
7	River Satluj at Harike	1022	21.12.20	SW 1774	ZO Lab Ldh	7.3	5.0	2.9	438	1100	260	0.024	0.71	0.34	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 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	11.12.20	SW 1755	ZO Lab Ldh	<5	3	BDL	137	125	12	10	120	32.8	9.2	90	BDL	BDL	1.3	BDL	BDL	0.21	7.6	2.1
2	River Satluj D/S of Rishab- Paper Mills	1293	11.12.20	SW 1756	ZO Lab Ldh	<5	3	BDL	216	192	52	21	148	41.6	10.7	108	BDL	BDL	1.4	BDL	BDL	0.32	9.6	2.9
3	River Satluj U/S Buddha Nallah	1690	14.12.20	SW 1761	ZO Lab Ldh	12	12	9	221	191	37	13	166	49.6	10.2	112	BDL	BDL	1.7	BDL	0.55	0.34	14.3	3.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.12.20	SW 1763	ZO Lab Ldh	182	110	204	843	670	225	29	270	75.2	19.9	380	BDL	21.0	1.9	33	8.24	0.57	116	15.6
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	21.12.20	SW 1772	ZO Lab Ldh	48	55	82	321	275	57	18	192	52.8	14.6	138	BDL	4.6	1.4	7.4	2.42	0.21	53	4.3
6	River Satluj at D/s East Bein	1381	21.12.20	SW 1773	ZO Lab Ldh	54	60	84	359	303	80	20	202	56	15.1	148	BDL	5.1	1.3	8.2	3.06	0.23	62	6.1
7	River Satluj at Harike	1022	21.12.20	SW 1774	ZO Lab Ldh	25	52	93	252	216	49	15	152	38.4	13.6	136	BDL	2.4	1.2	3.6	1.25	0.27	20.2	2.5

- 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 December, 2020
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	4/12/20	SW 3439	H/o Lab Patiala	7.8	5.5	10	511	24000	2700	0.33	1.81	0.27	D	U
2	Ghaggar at Bhankarpur	1295	4/12/20	SW 3440	H/o Lab Patiala	7.6	2.9	37	811	28000	4000	0.34	2.33	0.46	E	U
3	Ghaggar at Chattbir	1698	4/12/20	SW 3441	H/o Lab Patiala	7.6	1.9	39	868	28000	4600	0.33	2.36	0.33	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	4/12/20	SW 3442	H/o Lab Patiala	7.5	3.2	12	607	24000	3400	0.20	1.88	0.31	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	4/12/20	SW 3443	H/o Lab Patiala	7.5	2.8	17	687	28000	4700	0.25	1.99	0.45	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	4/12/20	SW 3445	H/o Lab Patiala	7.6	3.4	11	597	22000	3100	0.25	1.90	0.41	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	4/12/20	SW 3446	H/o Lab Patiala	7.7	3.0	18	703	24000	3300	0.36	2.03	0.56	E	U
8	Ghaggar at Rattanheri	1473	7/12/20	SW 3455	H/o Lab Patiala	7.3	2.1	32	964	35000	4700	0.14	2.33	0.78	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7/12/20	SW 3456	H/o Lab Patiala	7.5	2.3	31	928	28000	4000	0.26	2.30	0.74	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7/12/20	SW 3457	H/o Lab Patiala	7.6	2.0	35	1083	35000	4600	0.32	2.29	0.80	E	U
11	Ghaggar at Khanauri	1024	7/12/20	SW 3460	H/o Lab Patiala	7.7	3.0	22	773	28000	4300	0.40	2.24	0.61	E	U
12	Ghaggar at Moonak	1703	7/12/20	SW 3462	H/o Lab Patiala	7.8	2.7	23	842	35000	4600	0.49	2.28	0.68	E	U
13	Ghaggar at U/s Sardulgarh	1705	14/12/20	SW 3471	H/o Lab Patiala	7.6	4.4	14	640	22000	3200	0.23	1.77	0.40	D	U
14	Ghaggar at D/s Sardulgarh	1704	14/12/20	SW 3472	H/o Lab Patiala	7.8	4.1	18	732	24000	3400	0.37	1.79	0.46	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	4/12/20	SW 3439	H/o Lab Patiala	48	730	492	332	282	38	21	128	33	11	213	BDL	9.3	1.2	13.0	0.72	1.1	47	24
2	Ghaggar at Bhankarpur	1295	4/12/20	SW 3440	H/o Lab Patiala	184	265	262	527	448	78	34	321	79	30	233	BDL	12.9	1.3	18.1	2.1	1.2	96	39
3	Ghaggar at Chattbir	1698	4/12/20	SW 3441	H/o Lab Patiala	196	140	192	564	479	86	35	348	83	34	252	BDL	13.1	1.3	18.3	2.0	1.3	101	41
4	Ghaggar at U/s Jharmal Nadi	1702	4/12/20	SW 3442	H/o Lab Patiala	60	145	154	394	335	57	21	181	41	19	225	BDL	10.1	1.2	14.1	1.9	1.2	58	32
5	Ghaggar at D/s Jharmal Nadi	1701	4/12/20	SW 3443	H/o Lab Patiala	84	195	210	446	379	62	26	222	49	24	242	BDL	12.7	1.3	17.8	2.1	1.4	68	40
6	Ghaggar at U/s Dhakanshu Nallah	1699	4/12/20	SW 3445	H/o Lab Patiala	56	40	61	388	330	58	22	165	38	17	227	BDL	9.9	1.1	13.9	1.3	1.0	56	29
7	Ghaggar at D/s Dhakanshu Nallah	1700	4/12/20	SW 3446	H/o Lab Patiala	92	60	69	457	388	64	28	220	45	26	249	BDL	11.9	1.4	16.7	1.8	1.2	69	43
8	Ghaggar at Rattanheri	1473	7/12/20	SW 3455	H/o Lab Patiala	164	130	129	627	533	97	47	439	90	52	257	BDL	13.7	1.5	19.2	2.4	1.3	112	42
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7/12/20	SW 3456	H/o Lab Patiala	156	125	126	603	513	94	43	417	86	49	253	BDL	13.2	1.4	18.5	2.3	1.3	108	39
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7/12/20	SW 3457	H/o Lab Patiala	176	145	140	650	553	99	50	470	96	56	258	BDL	12.6	1.5	17.6	2.4	1.3	114	47
11	Ghaggar at Khanauri	1024	7/12/20	SW 3460	H/o Lab Patiala	108	45	52	502	427	72	31	299	62	35	245	BDL	13.3	1.3	18.6	1.7	1.2	89	34
12	Ghaggar at Moonak	1703	7/12/20	SW 3462	H/o Lab Patiala	116	40	54	547	465	78	37	335	70	39	251	BDL	14.1	1.4	19.7	1.9	1.2	96	44
13	Ghaggar at U/s Sardulgarh	1705	14/12/20	SW 3471	H/o Lab Patiala	68	40	47	416	354	59	21	217	57	18	238	BDL	9.2	1.0	12.9	1.1	1.0	60	26
14	Ghaggar at D/s Sardulgarh	1704	14/12/20	SW 3472	H/o Lab Patiala	92	45	50	476	405	70	26	281	68	27	246	BDL	10.6	1.2	14.8	1.6	1.0	69	36

Note. 1. BDL means Below Method Detection Limit

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