

Quality of Water of Polluted River stretches in Punjab for the month of February, 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	08.02.21	SW 1858	ZO Lab Ldh	8.3	8.8	<1	372	630	78	BDL	0.28	0.15	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	08.02.21	SW 1859	ZO Lab Ldh	8.2	9.9	<1	386	700	78	BDL	0.74	0.31	C	S
3	River Satluj U/S Buddha Nallah	1690	11.02.21	SW 1861	ZO Lab Ldh	7.7	7.3	1.2	462	1400	200	0.033	1.26	0.17	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.02.21	SW 1862	ZO Lab Ldh	7.2	BDL	42	1243	21,00,000	9,40,000	0.164	3.39	0.42	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.02.21	SW 1865	ZO Lab Ldh	7.4	1.8	16	1194	2,60,000	93,000	0.258	3.15	0.15	E	U
6	River Satluj at D/s East Bein	1381	12.02.21	SW 1866	ZO Lab Jal.	7.5	1.6	18	1391	7,00,000	2,10,000	0.444	2.93	0.33	E	U
7	River Satluj at Harike	1022	12.02.21	SW 1867	ZO Lab Ldh	7.6	5.4	3.2	600	4600	1300	0.115	2.04	0.39	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	08.02.21	SW 1858	ZO Lab Ldh	<5	7	BDL	213	178	18	14	165	43.2	13.9	108	BDL	BDL	1.5	BDL	BDL	0.30	8.4	2.2
2	River Satluj D/S of Rishab- Paper Mills	1293	08.02.21	SW 1859	ZO Lab Ldh	<5	6	BDL	228	185	30	18	140	37.6	11.2	118	BDL	BDL	1.8	BDL	BDL	0.39	20.1	6.4
3	River Satluj U/S Buddha Nallah	1690	11.02.21	SW 1861	ZO Lab Ldh	8	11	18	274	215	32	27	146	37.6	12.6	144	BDL	1.1	2.6	1.7	0.62	0.27	35.0	5.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	11.02.21	SW 1862	ZO Lab Ldh	208	130	268	746	567	208	43	218	56	19.0	256	BDL	16.4	2.4	22.4	7.31	0.46	115	19.7
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	12.02.21	SW 1865	ZO Lab Ldh	88	140	286	714	571	174	38	226	58.4	19.4	270	BDL	17.2	1.9	27.5	7.35	0.24	109	19
6	River Satluj at D/s East Bein	1381	12.02.21	SW 1866	ZO Lab Ldh	94	110	220	826	653	182	35	296	76.8	25.3	278	BDL	22.2	1.8	32.0	10.2	0.24	116	28
7	River Satluj at Harike	1022	12.02.21	SW 1867	ZO Lab Ldh	21	55	78	362	294	46	29	148	37.6	13.1	142	BDL	4.6	2.2	6.4	1.86	0.28	57	9.5

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 February, 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	3/2/21	SW 3714	H/o Lab Patiala	7.5	4.7	14	597	28000	3800	0.19	1.93	0.32	D	U
2	Ghaggar at Bhankarpur	1295	3/2/21	SW 3715	H/o Lab Patiala	7.0	2.8	39	802	35000	4000	BDL	2.39	0.59	E	U
3	Ghaggar at Chattbir	1698	3/2/21	SW 3716	H/o Lab Patiala	7.1	2.5	35	835	28000	4000	0.01	2.32	0.51	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	3/2/21	SW 3717	H/o Lab Patiala	7.1	2.9	23	752	28000	3900	0.01	0.92	0.41	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	3/2/21	SW 3718	H/o Lab Patiala	7.3	2.3	36	957	35000	4700	0.14	2.42	0.57	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	3/2/21	SW 3720	H/o Lab Patiala	7.2	3.1	20	715	24000	3400	0.11	2.02	0.60	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	3/2/21	SW 3721	H/o Lab Patiala	7.3	2.9	27	906	28000	4000	0.13	2.20	0.67	E	U
8	Ghaggar at Rattanheri	1473	8/2/21	SW 3730	H/o Lab Patiala	7.6	2.2	21	814	28000	3400	0.32	2.14	0.71	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	8/2/21	SW 3731	H/o Lab Patiala	7.4	2.1	23	858	28000	3800	0.20	2.12	0.75	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	8/2/21	SW 3732	H/o Lab Patiala	7.5	2.0	26	931	28000	4000	0.25	2.11	0.81	E	U
11	Ghaggar at Khanauri	1024	8/2/21	SW 3735	H/o Lab Patiala	7.3	1.9	20	797	28000	3900	0.13	2.07	0.69	E	U
12	Ghaggar at Moonak	1703	8/2/21	SW 3737	H/o Lab Patiala	7.5	1.7	24	902	35000	4700	0.28	2.10	0.77	E	U
13	Ghaggar at U/s Sardulgarh	1705	11/2/21	SW 3738	H/o Lab Patiala	7.3	4.4	13	605	15000	2100	0.10	1.63	0.43	D	U
14	Ghaggar at D/s Sardulgarh	1704	11/2/21	SW 3739	H/o Lab Patiala	7.4	4.0	15	691	22000	2600	0.16	1.81	0.49	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	3/2/21	SW 3714	H/o Lab Patiala	73	400	398	388	330	46	27	171	42	16	227	BDL	9.4	1.2	13.2	0.93	1.2	58	31
2	Ghaggar at Bhankarpur	1295	3/2/21	SW 3715	H/o Lab Patiala	194	85	177	521	443	76	33	304	74	29	239	BDL	13.9	1.3	19.5	2.9	1.6	96	38
3	Ghaggar at Chattbir	1698	3/2/21	SW 3716	H/o Lab Patiala	176	110	166	543	462	80	35	338	79	34	243	BDL	13.2	1.3	18.5	2.8	1.4	98	39
4	Ghaggar at U/s Jharmal Nadi	1702	3/2/21	SW 3717	H/o Lab Patiala	115	90	171	489	416	71	29	246	54	27	238	BDL	12.1	1.2	16.9	2.3	1.3	84	49
5	Ghaggar at D/s Jharmal Nadi	1701	3/2/21	SW 3718	H/o Lab Patiala	178	100	113	622	529	86	41	370	77	43	279	BDL	14.2	1.5	19.9	2.9	1.6	107	67
6	Ghaggar at U/s Dhakanshu Nallah	1699	3/2/21	SW 3720	H/o Lab Patiala	98	70	92	465	395	71	33	227	48	26	243	BDL	10.6	1.2	14.8	1.6	1.1	70	39
7	Ghaggar at D/s Dhakanshu Nallah	1700	3/2/21	SW 3721	H/o Lab Patiala	135	75	94	589	383	81	40	346	79	36	273	BDL	12.9	1.3	18.1	2.4	1.3	94	62
8	Ghaggar at Rattanheri	1473	8/2/21	SW 3730	H/o Lab Patiala	102	40	63	529	450	81	32	349	72	41	240	BDL	12.8	1.2	17.9	2.0	1.1	92	35
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	8/2/21	SW 3731	H/o Lab Patiala	117	45	65	558	474	83	36	387	79	46	246	BDL	13.0	1.3	18.2	2.3	1.3	96	38
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	8/2/21	SW 3732	H/o Lab Patiala	129	45	69	605	514	92	48	440	84	56	251	BDL	12.7	1.3	17.8	2.5	1.3	102	40
11	Ghaggar at Khanauri	1024	8/2/21	SW 3735	H/o Lab Patiala	102	35	53	518	440	73	30	351	71	42	244	BDL	13.2	1.2	18.5	1.7	1.1	89	34
12	Ghaggar at Moonak	1703	8/2/21	SW 3737	H/o Lab Patiala	120	40	64	586	498	80	39	422	88	49	258	BDL	13.8	1.3	19.3	2.2	1.2	99	43
13	Ghaggar at U/s Sardulgarh	1705	11/2/21	SW 3738	H/o Lab Patiala	68	25	38	393	334	54	27	201	49	19	232	BDL	9.4	1.0	13.2	1.4	1.2	53	25
14	Ghaggar at D/s Sardulgarh	1704	11/2/21	SW 3739	H/o Lab Patiala	77	30	56	449	382	64	27	244	58	24	241	BDL	10.6	1.2	14.8	1.6	1.2	65	34

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