

Quality of Water of Polluted River stretches in Punjab for the month of Feb, 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	02.02.20	SW 1149	ZO Lab Ldh	7.5	9.3	1.6	288	1700	450	BDL	0.31	BDL	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	02.02.20	SW 1150	ZO Lab Ldh	7.5	9.9	<1	321	2100	780	BDL	0.34	0.11	C	S
3	River Satluj U/S Buddha Nallah	1690	04.02.20	SW 1182	ZO Lab Ldh	7.4	9.0	1.8	356	2000	780	BDL	0.28	0.17	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	04.02.20	SW 1184	ZO Lab Ldh	6.9	3.7	22	565	11,00,000	4,90,000	BDL	0.82	0.26	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	05.02.20	SW 1190	ZO Lab Ldh	6.9	5.0	7	543	1,10,000	46,000	BDL	0.71	0.18	D	U
6	River Satluj at D/s East Bein	1381	05.02.20	SW 1191	ZO Lab Ldh	6.9	4.7	9	611	1,70,000	70,000	BDL	0.81	0.21	D	U
7	River Satluj at Harike	1022	05.02.20	SW 1192	ZO Lab Ldh	6.8	4.4	3.2	365	3300	780	BDL	0.96	0.19	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	02.02.20	SW 1149	ZO Lab Ldh	10	4	9	169	149	11	12	140	30.4	15.6	108	BDL	BDL	1.5	BDL	BDL	0.21	8.5	2.6
2	River Satluj D/S of Rishab- Paper Mills	1293	02.02.20	SW 1150	ZO Lab Ldh	<5	9	20	183	163	15	16	142	32	15.1	118	BDL	BDL	1.8	BDL	BDL	0.40	9.2	3.9
3	River Satluj U/S Buddha Nallah	1690	04.02.20	SW 1182	ZO Lab Ldh	<5	14	26	223	194	13	16	188	41.6	20.4	144	BDL	1.1	2.6	1.3	0.08	0.40	8.9	3.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	04.02.20	SW 1184	ZO Lab Ldh	72	58	109	341	264	39	30	198	84	-2.9	226	BDL	3.2	2.7	3.9	0.19	0.43	26.4	5.5
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	05.02.20	SW 1190	ZO Lab Ldh	30	41	52	327	255	32	33	186	40	20.9	232	BDL	3.9	1.4	4.6	1.01	0.24	22.3	5.1
6	River Satluj at D/s East Bein	1381	05.02.20	SW 1191	ZO Lab Ldh	32	43	66	357	292	39	36	192	41.6	21.4	238	BDL	4.0	1.5	4.8	0.34	0.24	25.7	5.6
7	River Satluj at Harike	1022	05.02.20	SW 1192	ZO Lab Ldh	12	10	18	216	183	34	18	132	27.2	15.6	116	BDL	1.4	1.6	1.6	0.17	0.30	25.3	6.6

- 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 Feb, 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	6/2/20	SW 1832	H/o Lab Patiala	7.9	5.3	10	598	21000	2700	0.55	1.64	0.89	D	U
2	Ghaggar at Bhankarpur	1295	6/2/20	SW 1833	H/o Lab Patiala	7.7	4.2	29	808	28000	3200	0.41	1.77	0.92	D	U
3	Ghaggar at Chattbir	1698	6/2/20	SW 1834	H/o Lab Patiala	7.5	4.1	35	870	28000	3800	0.28	1.95	0.86	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	6/2/20	SW 1835	H/o Lab Patiala	7.7	4.4	9	718	22000	2700	0.33	1.86	0.71	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	6/2/20	SW 1836	H/o Lab Patiala	7.6	2.2	26	1122	28000	3300	0.36	2.13	0.86	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	6/2/20	SW 1838	H/o Lab Patiala	7.6	3.4	17	1002	17000	2200	0.32	2.08	0.74	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	6/2/20	SW 1839	H/o Lab Patiala	7.7	3.0	21	1128	28000	4700	0.40	2.20	0.80	E	U
8	Ghaggar at Rattanheri	1473	10/2/20	SW 1892	H/o Lab Patiala	7.8	1.9	28	962	35000	4900	0.51	2.16	0.87	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/2/20	SW 1893	H/o Lab Patiala	7.4	2.0	29	998	35000	4700	0.21	2.24	0.84	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/2/20	SW 1894	H/o Lab Patiala	7.9	1.4	34	1143	43000	5800	0.49	2.19	0.91	E	U
11	Ghaggar at Khanauri	1024	10/2/20	SW 1897	H/o Lab Patiala	7.8	2.4	28	1088	28000	3800	0.42	2.07	0.78	E	U
12	Ghaggar at Moonak	1703	10/2/20	SW 1899	H/o Lab Patiala	7.8	2.6	26	1008	35000	4700	0.44	2.08	0.81	E	U
13	Ghaggar at U/s Sardulgarh	1705	25/2/20	SW 2015	H/o Lab Patiala	7.9	5.8	14	620	21000	2600	0.44	1.40	0.49	D	U
14	Ghaggar at D/s Sardulgarh	1704	25/2/20	SW 2016	H/o Lab Patiala	7.8	4.2	17	697	24000	3300	0.37	1.54	0.73	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	6/2/20	SW 1832	H/o Lab Patiala	58	10	502	359	305	46	10	154	39	14	263	BDL	12.3	2.8	17.2	2.08	0.80	47	12
2	Ghaggar at Bhankarpur	1295	6/2/20	SW 1833	H/o Lab Patiala	146	29	291	485	412	72	24	279	77	21	268	BDL	13.7	1.7	19.2	1.7	0.9	68	29
3	Ghaggar at Chattbir	1698	6/2/20	SW 1834	H/o Lab Patiala	176	35	298	522	444	79	28	311	81	26	270	BDL	14.2	1.9	19.9	1.4	0.98	79	33
4	Ghaggar at U/s Jharmal Nadi	1702	6/2/20	SW 1835	H/o Lab Patiala	34	9	268	431	366	68	14	217	54	20	253	BDL	11.0	1.0	15.4	1.2	0.7	63	28
5	Ghaggar at D/s Jharmal Nadi	1701	6/2/20	SW 1836	H/o Lab Patiala	104	26	298	675	574	97	50	433	104	42	315	BDL	14.5	2.8	20.3	3.1	1.7	102	48
6	Ghaggar at U/s Dhakanshu Nallah	1699	6/2/20	SW 1838	H/o Lab Patiala	70	17	98	601	511	83	44	379	89	38	292	BDL	12.9	1.6	18.1	1.0	0.9	93	42
7	Ghaggar at D/s Dhakanshu Nallah	1700	6/2/20	SW 1839	H/o Lab Patiala	96	21	104	677	575	100	51	458	104	48	298	BDL	13.4	2.0	18.8	4.9	1.0	108	50
8	Ghaggar at Rattanheri	1473	10/2/20	SW 1892	H/o Lab Patiala	132	28	178	577	490	80	40	357	82	37	280	BDL	14.6	1.4	20.4	2.8	0.75	94	40
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/2/20	SW 1893	H/o Lab Patiala	136	29	100	599	509	84	43	362	87	35	283	BDL	13.9	1.2	19.5	2.1	0.70	98	46
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/2/20	SW 1894	H/o Lab Patiala	152	34	112	686	583	97	55	459	98	52	299	BDL	10.8	1.7	15.1	3.9	1.0	108	60

11	Ghaggar at Khanauri	1024	10/2/20	SW 1897	H/o Lab Patiala	112	28	108	653	555	95	40	424	94	46	328	BDL	11.9	1.6	16.7	3.5	1.2	98	45
12	Ghaggar at Moonak	1703	10/2/20	SW 1899	H/o Lab Patiala	104	26	117	605	514	84	38	363	79	40	319	BDL	12.6	1.2	17.6	3.8	0.87	91	44
13	Ghaggar at U/s Sardulgarh	1705	25/2/20	SW 2015	H/o Lab Patiala	58	14	97	372	316	40	19	171	42	16	262	BDL	9.7	0.7	13.6	1.0	0.65	42	21
14	Ghaggar at D/s Sardulgarh	1704	25/2/20	SW 2016	H/o Lab Patiala	66	17	113	418	355	47	24	209	49	21	274	BDL	10.6	0.9	14.8	1.2	0.8	51	26

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