

Quality of Water of Polluted River stretches in Punjab for the month of May, 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	14.05.20	SW 1325	ZO Lab Ldh	7.4	8.5	<1	264	580	250	BDL	0.10	0.15	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	14.05.20	SW 1326	ZO Lab Ldh	7.4	8.7	<1	246	630	260	BDL	0.11	0.24	C	S
3	River Satluj U/S Buddha Nallah	1690	15.05.20	SW 1328	ZO Lab Ldh	7.7	8.2	<1	256	840	310	BDL	0.10	0.17	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	15.05.20	SW 1330	ZO Lab Ldh	7.2	4.0	5.0	306	1,70,000	70,000	0.014	0.16	0.19	D	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.05.20	SW 1332	ZO Lab Ldh	7.4	5.8	1.8	292	70,000	22,000	0.018	0.11	0.15	D	U
6	River Satluj at D/s East Bein	1381	17.05.20	SW 1333	ZO Lab Ldh	7.5	5.6	2.2	287	84,000	31,000	0.026	0.10	0.20	D	U
7	River Satluj at Harike	1022	17.05.20	SW 1334	ZO Lab Ldh	7.5	7.0	1.4	276	3300	1100	0.010	0.13	0.33	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	14.05.20	SW 1325	ZO Lab Ldh	<5	18	28	148	129	8	8	142	32.8	14.6	78	BDL	BDL	1.4	BDL	BDL	0.21	2.8	2.1
2	River Satluj D/S of Rishab- Paper Mills	1293	14.05.20	SW 1326	ZO Lab Ldh	<5	20	33	145	124	10	6	136	28	16.0	76	BDL	BDL	1.5	BDL	BDL	0.22	2.9	1.9
3	River Satluj U/S Buddha Nallah	1690	15.05.20	SW 1328	ZO Lab Ldh	<5	91	127	153	137	8	6	138	32	14.1	82	BDL	BDL	1.7	BDL	BDL	0.29	2.8	2.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	15.05.20	SW 1330	ZO Lab Ldh	24	84	109	179	149	15	13	144	35.2	13.6	92	BDL	1.4	1.8	1.8	0.44	0.36	4.3	3.6
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	17.05.20	SW 1332	ZO Lab Ldh	14	80	118	178	142	10	12	150	36.8	14.1	96	BDL	1.2	1.3	1.4	0.18	0.23	3.2	3.8
6	River Satluj at D/s East Bein	1381	17.05.20	SW 1333	ZO Lab Ldh	17	95	124	166	140	10	10	152	33.6	16.5	88	BDL	1.3	1.4	1.5	0.16	0.22	2.7	3.0
7	River Satluj at Harike	1022	17.05.20	SW 1334	ZO Lab Ldh	12	91	114	164	139	9	9	138	36	11.7	94	BDL	1.0	1.3	1.2	0.07	0.21	3.5	3.5

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 May, 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	11/5/20	SW 2282	H/o Lab Patiala	7.7	7.0	6	493	15000	2100	0.31	1.70	0.35	D	U
2	Ghaggar at Bhankarpur	1295	11/5/20	SW 2283	H/o Lab Patiala	7.2	4.3	20	768	24000	2700	0.14	1.99	0.49	D	U
3	Ghaggar at Chattbir	1698	11/5/20	SW 2284	H/o Lab Patiala	7.1	4.1	11	734	22000	2600	0.007	2.07	0.44	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/20	SW 2285	H/o Lab Patiala	7.1	4.0	10	693	28000	3100	0.006	2.15	0.37	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/20	SW 2286	H/o Lab Patiala	7.1	3.0	14	946	28000	3900	0.007	2.91	0.95	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/20	SW 2287	H/o Lab Patiala	7.4	4.4	10	730	15000	1700	0.19	3.11	0.59	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/20	SW 2288	H/o Lab Patiala	7.2	4.1	12	898	21000	2200	0.13	3.62	0.69	D	U
8	Ghaggar at Rattanheri	1473	13/5/20	SW 2295	H/o Lab Patiala	7.4	3.7	21	825	24000	3300	0.22	2.14	0.85	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13/5/20	SW 2296	H/o Lab Patiala	7.6	3.8	19	778	24000	2700	0.34	2.14	0.82	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13/5/20	SW 2297	H/o Lab Patiala	7.5	3.3	24	942	28000	3900	0.22	2.33	0.78	E	U
11	Ghaggar at Khanauri	1024	13/5/20	SW 2300	H/o Lab Patiala	7.5	4.0	14	768	24000	3400	0.21	2.20	0.62	D	U
12	Ghaggar at Moonak	1703	13/5/20	SW 2302	H/o Lab Patiala	7.5	3.8	16	832	28000	4000	0.24	2.16	0.65	E	U
13	Ghaggar at U/s Sardulgarh	1705	15/5/20	SW 2319	H/o Lab Patiala	7.4	4.3	10	697	17000	2100	0.15	1.75	0.70	D	U
14	Ghaggar at D/s Sardulgarh	1704	15/5/20	SW 2320	H/o Lab Patiala	7.4	4.6	11	775	21000	2500	0.18	1.85	0.76	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	11/5/20	SW 2282	H/o Lab Patiala	29	630	329	296	252	34	11	111	31	8	198	BDL	10.4	1.21	14.8	4.4	0.9	41	17
2	Ghaggar at Bhankarpur	1295	11/5/20	SW 2283	H/o Lab Patiala	87	270	219	461	392	68	24	255	64	23	238	BDL	14.3	1.0	20.0	3.8	0.9	73	29
3	Ghaggar at Chattbir	1698	11/5/20	SW 2284	H/o Lab Patiala	54	90	87	440	374	65	19	222	56	20	235	BDL	13.7	0.9	19.2	3.8	0.7	71	24
4	Ghaggar at U/s Jharmal Nadi	1702	11/5/20	SW 2285	H/o Lab Patiala	48	70	79	416	354	62	17	195	50	17	227	BDL	11.9	0.7	16.7	2.0	0.6	69	23
5	Ghaggar at D/s Jharmal Nadi	1701	11/5/20	SW 2286	H/o Lab Patiala	69	95	100	568	482	81	26	313	69	34	279	BDL	13.9	1.0	19.5	7.8	1.9	118	34
6	Ghaggar at U/s Dhakanshu Nallah	1699	11/5/20	SW 2287	H/o Lab Patiala	47	40	63	438	372	60	16	173	46	14	237	BDL	12.7	0.8	17.8	1.7	0.8	94	29
7	Ghaggar at D/s Dhakanshu Nallah	1700	11/5/20	SW 2288	H/o Lab Patiala	56	150	113	539	458	69	21	205	54	17	269	BDL	13.3	0.9	18.6	2.2	0.9	119	56
8	Ghaggar at Rattanheri	1473	13/5/20	SW 2295	H/o Lab Patiala	92	40	71	465	395	68	26	253	63	23	267	BDL	14.4	1.4	20.2	3.9	0.8	78	37
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13/5/20	SW 2296	H/o Lab Patiala	82	30	64	466	396	64	24	226	59	19	263	BDL	13.7	0.9	19.2	1.8	0.7	74	29

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10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13/5/20	SW 2297	H/o Lab Patiala	108	40	74	565	480	86	31	302	73	29	283	BDL	10.9	1.0	15.3	1.7	0.9	93	43
11	Ghaggar at Khanauri	1024	13/5/20	SW 2300	H/o Lab Patiala	68	30	61	461	392	61	20	238	54	25	256	BDL	10.6	0.9	14.8	1.8	0.8	78	29
12	Ghaggar at Moonak	1703	13/5/20	SW 2302	H/o Lab Patiala	73	40	80	499	424	69	29	260	58	28	269	BDL	11.9	0.8	16.7	1.2	0.7	80	32
13	Ghaggar at U/s Sardulgarh	1705	15/5/20	SW 2319	H/o Lab Patiala	48	15	31	418	355	48	23	201	49	19	252	BDL	10.0	0.6	14.0	0.6	0.6	57	30
14	Ghaggar at D/s Sardulgarh	1704	15/5/20	SW 2320	H/o Lab Patiala	55	20	44	465	395	64	26	234	54	24	267	BDL	12.2	0.8	17.1	1.4	0.7	65	33

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