

## Quality of Water of Polluted River stretches in Punjab for the month of March, 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 $\mu$ 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	9/3/20	SW 1235	ZO Lab Ldh	7.4	7.8	<1	341	940	330	BDL	0.28	BDL	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	9/3/20	SW 1234	ZO Lab Ldh	7.8	7.2	<1	421	940	490	BDL	0.83	0.14	C	S
3	River Satluj U/S Buddha Nallah	1690	12/3/20	SW 1240	ZO Lab Ldh	7.6	8.4	2.6	347	940	170	BDL	0.35	0.12	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12/3/20	SW 1242	ZO Lab Ldh	7.2	2.8	14	446	790000	2,30,000	0.04	0.60	0.26	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	16/3/20	SW 1248	ZO Lab Ldh	7.5	4.2	4	458	94000	22000	0.04	0.70	0.22	D	U
6	River Satluj at D/s East Bein	1381	16/3/20	SW 1249	ZO Lab Ldh	7.4	3.0	5.2	517	140000	33000	0.03	0.93	0.19	E	U
7	River Satluj at Harike	1022	16/3/20	SW 1250	ZO Lab Ldh	8.1	6.0	2.4	344	3200	1300	0.08	0.69	0.24	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	9/3/20	SW 1235	ZO Lab Ldh	<5	12	BDL	196	168	16	14	142	33.6	14.1	102	BDL	BDL	1.4	BDL	BDL	0.23	7.8	2.3
2	River Satluj D/S of Rishab- Paper Mills	1293	9/3/20	SW 1234	ZO Lab Ldh	<5	7	8	251	221	22	16	188	44	19	142	BDL	BDL	1.4	BDL	BDL	0.26	26.1	2.9
3	River Satluj U/S Buddha Nallah	1690	12/3/20	SW 1240	ZO Lab Ldh	18	57	96	208	187	18	14	158	37.6	15.6	106	BDL	BDL	1.8	1.3	0.07	0.34	10.1	3.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	12/3/20	SW 1242	ZO Lab Ldh	72	19	25	264	217	30	26	184	43.2	18.5	134	BDL	4.2	2.0	5.6	0.92	0.42	18.8	6.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	16/3/20	SW 1248	ZO Lab Ldh	24	78	99	265	212	44	30	166	39.2	16.5	114	BDL	1.8	1.2	2.3	0.40	0.23	20.6	6
6	River Satluj at D/s East Bein	1381	16/3/20	SW 1249	ZO Lab Ldh	32	51	82	300	237	46	38	166	38.4	17	136	BDL	2.0	1.5	2.6	1.02	0.23	27.5	8.4
7	River Satluj at Harike	1022	16/3/20	SW 1250	ZO Lab Ldh	16	115	258	204	172	28	20	144	33.6	14.5	112	BDL	1.3	1.3	1.8	0.04	0.22	18.9	3.8

**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 March, 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 µs/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	5/3/20	SW 2021	H/o Lab Patiala	8.0	6.9	11	642	24000	3400	0.66	1.78	0.75	D	U
2	Ghaggar at Bhankarpur	1295	5/3/20	SW 2022	H/o Lab Patiala	7.8	3.1	35	898	28000	3800	0.49	1.77	0.88	E	U
3	Ghaggar at Chattbir	1698	5/3/20	SW 2023	H/o Lab Patiala	7.6	2.3	43	1008	28000	4600	0.36	2.00	0.79	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	5/3/20	SW 2024	H/o Lab Patiala	7.6	2.6	19	790	24000	3300	0.35	1.90	0.63	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	5/3/20	SW 2025	H/o Lab Patiala	7.7	2.4	28	1258	24000	3400	0.46	2.32	0.80	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/3/20	SW 2027	H/o Lab Patiala	7.9	2.2	20	1093	21000	2700	0.61	2.11	0.70	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/3/20	SW 2028	H/o Lab Patiala	7.7	2.0	26	1255	28000	4000	0.43	2.25	0.82	E	U
8	Ghaggar at Rattanheri	1473	11/3/20	SW 2055	H/o Lab Patiala	7.4	2.6	23	880	28000	3900	0.21	2.14	0.72	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/3/20	SW 2056	H/o Lab Patiala	7.4	3.0	21	835	28000	3800	0.2	2.05	0.95	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/3/20	SW 2057	H/o Lab Patiala	7.5	2.0	27	985	35000	4700	0.2	2.04	0.99	E	U
11	Ghaggar at Khanauri	1024	11/3/20	SW 2060	H/o Lab Patiala	7.3	2.5	18	828	24000	3300	0.10	1.80	0.72	E	U
12	Ghaggar at Moonak	1703	11/3/20	SW 2062	H/o Lab Patiala	7.4	1.9	21	852	28000	4000	0.17	1.84	0.84	E	U
13	Ghaggar at U/s Sardulgarh	1705	19/3/20	SW 2122	H/o Lab Patiala	7.5	5.0	16	670	22000	3100	0.2	1.45	0.55	D	U
14	Ghaggar at D/s Sardulgarh	1704	19/3/20	SW 2123	H/o Lab Patiala	6.8	4.7	17	768	28000	3800	0.43	1.63	0.64	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	5/3/20	SW 2021	H/o Lab Patiala	52	780	542	385	327	52	12	169	41	16	272	BDL	13.2	3.0	18.5	1.1	0.92	53	14
2	Ghaggar at Bhankarpur	1295	5/3/20	SW 2022	H/o Lab Patiala	168	295	299	539	458	83	31	329	84	29	282	BDL	14.1	2.1	19.7	4.8	0.82	74	35
3	Ghaggar at Chattbir	1698	5/3/20	SW 2023	H/o Lab Patiala	198	190	304	605	514	90	34	366	92	33	322	BDL	14.4	2.0	202	1.0	1.0	88	39
4	Ghaggar at U/s Jharmal Nadi	1702	5/3/20	SW 2024	H/o Lab Patiala	87	175	275	474	403	72	19	257	60	26	268	BDL	12.2	1.6	17.1	3.1	0.9	70	33
5	Ghaggar at D/s Jharmal Nadi	1701	5/3/20	SW 2025	H/o Lab Patiala	128	190	300	755	642	106	59	505	118	51	340	BDL	15.2	3.2	21.3	2.4	1.9	120	60
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/3/20	SW 2027	H/o Lab Patiala	92	55	112	656	480	92	52	427	95	46	308	BDL	13.6	1.9	19.0	0.9	1.0	100	51
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/3/20	SW 2028	H/o Lab Patiala	116	60	120	753	640	113	58	522	112	59	325	BDL	14.2	2.4	19.9	4.6	1.06	118	62
8	Ghaggar at Rattanheri	1473	11/3/20	SW 2055	H/o Lab Patiala	104	45	111	528	449	72	33	313	76	30	269	BDL	14.0	1.0	19.6	3.6	0.60	87	35
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	11/3/20	SW 2056	H/o Lab Patiala	100	30	94	501	426	69	31	297	71	29	262	BDL	13.4	1.0	18.8	2.8	0.65	81	30
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	11/3/20	SW 2057	H/o Lab Patiala	128	35	100	591	502	84	42	386	82	44	272	BDL	10.1	1.9	14.1	6.0	0.8	92	49

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11	Ghaggar at Khanauri	1024	11/3/20	SW 2060	H/o Lab Patiala	81	25	72	497	422	62	29	303	70	31	280	BDL	10.2	0.9	14.3	3.1	0.7	72	31
12	Ghaggar at Moonak	1703	11/3/20	SW 2062	H/o Lab Patiala	94	30	78	511	434	64	30	315	73	32	282	BDL	11.1	1.0	15.5	4.6	0.8	75	34
13	Ghaggar at U/s Sardulgarh	1705	19/3/20	SW 2122	H/o Lab Patiala	72	35	99	402	342	46	22	200	47	20	271	BDL	10.0	0.9	14.0	1.6	0.8	47	24
14	Ghaggar at D/s Sardulgarh	1704	19/3/20	SW 2123	H/o Lab Patiala	80	45	120	461	392	55	29	239	56	24	287	BDL	12.3	1.04	17.2	2.4	0.9	58	32

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