

Quality of Water of Polluted River stretches in Punjab for the month of November, 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	06.11.20	SW 1690	ZO Lab Ldh	8.3	8.7	BDL	244	940	460	BDL	0.27	0.21	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	06.11.20	SW 1691	ZO Lab Ldh	8.2	9.0	BDL	318	1200	450	BDL	0.41	0.16	C	S
3	River Satluj U/S Buddha Nallah	1690	09.11.20	SW 1708	ZO Lab Ldh	7.9	7.8	2.0	335	5800	1100	BDL	0.56	0.38	D	U
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.11.20	SW 1710	ZO Lab Ldh	7.5	BDL	30	745	22,00,000	14,00,000	0.098	2.09	0.19	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.11.20	SW 1716	ZO Lab Ldh	7.6	2.4	7.2	622	1,30,000	34,000	0.108	1.80	0.23	E	U
6	River Satluj at D/s East Bein	1381	10.11.20	SW 1717	ZO Lab Jal.	7.4	BDL	15	939	5,40,000	1,10,000	0.087	1.95	0.28	E	U
7	River Satluj at Harike	1022	10.11.20	SW 1718	ZO Lab Ldh	7.5	4.1	2.9	338	2200	930	BDL	0.77	0.25	D	U

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	06.11.20	SW 1690	ZO Lab Ldh	BDL	3	BDL	143	125	16	11	138	29.6	15.6	80	BDL	BDL	1.4	BDL	BDL	0.23	7.2	1.8
2	River Satluj D/S of Rishab- Paper Mills	1293	06.11.20	SW 1691	ZO Lab Ldh	BDL	4	BDL	190	166	27	14	138	30.4	15.1	86	BDL	BDL	1.5	BDL	BDL	0.24	11.1	3.1
3	River Satluj U/S Buddha Nallah	1690	09.11.20	SW 1708	ZO Lab Ldh	14	29	74	197	167	33	15	144	32.8	15.1	106	BDL	BDL	1.9	BDL	0.52	0.21	15.4	3.0
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.11.20	SW 1710	ZO Lab Ldh	116	65	109	447	356	110	37	182	42.4	18.5	218	BDL	4.9	2.2	6.2	3.09	0.26	65	9.8
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.11.20	SW 1716	ZO Lab Ldh	35	16	25	380	321	99	36	158	35.2	17.0	164	BDL	4.3	2.2	5.2	0.56	0.23	52	4.5
6	River Satluj at D/s East Bein	1381	10.11.20	SW 1717	ZO Lab Ldh	72	28	45	588	455	92	31	250	53.6	28.2	434	BDL	5.8	2.4	6.8	2.44	0.24	71	7.0
7	River Satluj at Harike	1022	10.11.20	SW 1718	ZO Lab Ldh	15	60	122	211	176	40	17	124	27.2	13.6	126	BDL	BDL	2.1	BDL	1.94	0.21	19.6	3.6

- 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 November, 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	5/11/2020	SW 3293	H/o Lab Patiala	8.0	5.9	18	680	28000	4000	0.51	1.91	0.36	D	U
2	Ghaggar at Bhankarpur	1295	5/11/2020	SW 3294	H/o Lab Patiala	7.7	2.2	44	989	35000	5800	0.43	2.51	0.51	E	U
3	Ghaggar at Chattbir	1698	5/11/2020	SW 3295	H/o Lab Patiala	7.5	1.1	53	1398	35000	6300	0.27	3.00	0.38	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	5/11/2020	SW 3296	H/o Lab Patiala	7.6	1.6	28	994	28000	4300	0.28	2.45	0.37	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	5/11/2020	SW 3297	H/o Lab Patiala	7.5	1.0	32	1143	35000	7000	0.37	2.56	0.56	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/11/2020	SW 3299	H/o Lab Patiala	7.4	1.4	34	997	28000	4300	0.16	2.75	0.62	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/11/2020	SW 3300	H/o Lab Patiala	7.4	1.2	43	1098	35000	5800	0.17	2.79	0.67	E	U
8	Ghaggar at Rattanheri	1473	10/11/2020	SW 3321	H/o Lab Patiala	7.6	2.0	37	1129	35000	5800	0.37	2.71	0.81	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/11/2020	SW 3322	H/o Lab Patiala	7.8	1.8	35	1078	35000	4700	0.50	2.64	0.80	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/11/2020	SW 3323	H/o Lab Patiala	7.6	1.5	42	1182	35000	4900	0.34	2.72	0.87	E	U
11	Ghaggar at Khanauri	1024	10/11/2020	SW 3326	H/o Lab Patiala	7.8	3.6	27	946	35000	4900	0.51	2.37	0.75	E	U
12	Ghaggar at Moonak	1703	10/11/2020	SW 3328	H/o Lab Patiala	7.8	2.6	28	1009	43000	6300	0.53	2.46	0.79	E	U
13	Ghaggar at U/s Sardulgarh	1705	17/11/2020	SW 3355	H/o Lab Patiala	7.9	4.3	17	733	28000	3800	0.46	1.80	0.50	D	U
14	Ghaggar at D/s Sardulgarh	1704	17/11/2020	SW 3356	H/o Lab Patiala	7.8	4.0	29	923	35000	4700	0.41	2.02	0.57	D	U

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	NO3-N mg/l	TKN mg/l	PO ₄ as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarikpur Rest House	1023	5/11/2020	SW 3293	H/o Lab Patiala	81	740	542	442	376	58	27	213	54	19	258	BDL	10.1	1.8	14.1	0.85	1.4	64	37
2	Ghaggar at Bhankarpur	1295	5/11/2020	SW 3294	H/o Lab Patiala	198	320	299	643	547	94	49	391	92	39	274	BDL	14.2	1.7	19.9	3.12	1.6	114	57
3	Ghaggar at Chattbir	1698	5/11/2020	SW 3295	H/o Lab Patiala	240	170	213	909	773	179	58	601	163	47	317	BDL	13.7	1.9	19.2	2.43	1.7	169	67
4	Ghaggar at U/s Jharmal Nadi	1702	5/11/2020	SW 3296	H/o Lab Patiala	129	110	131	646	549	101	46	403	87	45	277	BDL	11.3	1.6	15.8	2.10	1.5	113	51
5	Ghaggar at D/s Jharmal Nadi	1701	5/11/2020	SW 3297	H/o Lab Patiala	147	350	313	743	632	124	54	495	99	60	301	BDL	13.4	1.7	18.8	2.75	1.5	131	58
6	Ghaggar at U/s Dhakanshu Nallah	1699	5/11/2020	SW 3299	H/o Lab Patiala	154	50	79	648	551	94	39	386	85	42	294	BDL	10.9	1.5	15.3	1.8	1.3	124	53
7	Ghaggar at D/s Dhakanshu Nallah	1700	5/11/2020	SW 3300	H/o Lab Patiala	196	80	93	714	607	102	45	444	92	52	314	BDL	11.4	1.6	16.0	2.0	1.3	135	64
8	Ghaggar at Rattanheri	1473	10/11/2020	SW 3321	H/o Lab Patiala	168	40	77	734	624	111	54	490	97	60	304	BDL	14.6	1.6	20.4	2.6	1.2	138	56
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10/11/2020	SW 3322	H/o Lab Patiala	160	40	70	701	596	106	50	465	94	56	299	BDL	14.2	1.5	19.9	2.4	1.2	131	50
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10/11/2020	SW 3323	H/o Lab Patiala	189	45	81	768	653	117	60	515	104	62	312	BDL	13.6	1.7	19.04	2.7	1.4	142	60
11	Ghaggar at Khanauri	1024	10/11/2020	SW 3326	H/o Lab Patiala	122	40	69	615	523	82	48	365	80	40	298	BDL	14.7	1.3	20.6	2.1	1.3	104	47
12	Ghaggar at Moonak	1703	10/11/2020	SW 3328	H/o Lab Patiala	128	45	72	656	558	90	51	408	89	45	300	BDL	15.2	1.5	21.3	2.2	1.3	114	52
13	Ghaggar at U/s Sardulgarh	1705	17/11/2020	SW 3355	H/o Lab Patiala	76	30	64	476	405	70	26	263	64	25	265	BDL	10.2	1.0	14.3	1.3	1.0	67	32
14	Ghaggar at D/s Sardulgarh	1704	17/11/2020	SW 3356	H/o Lab Patiala	132	40	73	554	471	81	40	361	80	39	287	BDL	11.6	1.3	16.2	1.9	1.1	88	49

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)