

## Quality of Water of Polluted River stretches in Punjab for the month of December, 2022

### 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	06.12.2022	SW 482	ZO Lab LDH	8.3	7.3	BDL	252	580	250	BDL	0.25	0.10	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	06.12.2022	SW 483	ZO Lab LDH	8.3	8.0	BDL	247	940	320	BDL	0.20	0.31	C	S
3	River Satluj U/S Buddha Nallah	1690	07.12.2022	SW 490	ZO Lab LDH	8.2	7.4	BDL	254	1000	400	0.056	0.52	0.13	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	07.12.2022	SW 492	ZO Lab LDH	7.7	3.8	8	351	7,00,000	3,30,000	0.072	0.76	0.37	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	08.12.2022	SW 495	ZO Lab LDH	8.5	6.2	3.1	358	1,10,000	33,000	0.182	0.84	0.21	D	U
6	River Satluj at D/s East Bein	1381	08.12.2022	SW 496	ZO Lab LDH	8.4	5.8	3.3	311	2,70,000	1,40,000	0.200	0.79	0.27	D	U
7	River Satluj at Harike	1022	08.12.2022	SW 497	ZO Lab LDH	8.5	7.6	2.0	373	3900	1700	0.15	1.13	0.32	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	06.12.2022	SW 482	ZO Lab LDH	BDL	10	12	144	122	8	10	164	42.4	14.1	82	BDL	BDL	1.5	BDL	BDL	0.24	7.5	2.2
2	River Satluj D/S of Rishab- Paper Mills	1293	06.12.2022	SW 483	ZO Lab LDH	BDL	25	18	145	123	9	12	132	33.6	11.7	74	BDL	BDL	1.8	BDL	BDL	0.24	5.2	2.2
3	River Satluj U/S Buddha Nallah	1690	07.12.2022	SW 490	ZO Lab LDH	BDL	60	79	152	130	7	14	144	37.6	12.2	78	BDL	0.7	2.6	1.6	BDL	0.26	14.3	4.3
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	07.12.2022	SW 492	ZO Lab LDH	48	95	140	217	176	20	20	160	41.6	13.6	110	BDL	2.4	2.7	3.1	0.31	0.36	22	6.7
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	08.12.2022	SW 495	ZO Lab LDH	22	65	76	220	181	22	23	148	38.4	12.6	106	BDL	1.3	2.0	1.7	0.15	0.32	23.5	9
6	River Satluj at D/s East Bein	1381	08.12.2022	SW 496	ZO Lab LDH	25	75	84	192	156	14	26	160	40.8	14.1	100	BDL	1.6	1.8	2.2	0.15	0.35	23.1	8.3
7	River Satluj at Harike	1022	08.12.2022	SW 497	ZO Lab LDH	16	85	105	220	186	19	20	150	39.2	12.6	115	BDL	1.0	1.9	1.6	0.24	0.29	31.9	11.2

**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 December, 2022**  
**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 $\mu$ 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	05.01.2023	1096	H/o Lab Patiala	7.5	4.2	11	491	21000	2100	1.84	0.51	D	U	U
2	Ghaggar at Bhankarapur	1295	05.01.2023	1097	H/o Lab Patiala	7.7	2.2	23	701	24000	3400	1.88	0.57	E	U	U
3	Ghaggar at Chattbir	1698	05.01.2023	1098	H/o Lab Patiala	7.8	2.1	22	711	28000	3800	1.78	0.63	E	U	U
4	Ghaggar at U/s Jharmal Nadi	1702	05.01.2023	1099	H/o Lab Patiala	8.0	3.4	13	593	24000	3400	1.75	0.50	E	U	U
5	Ghaggar at D/s Jharmal Nadi	1701	05.01.2023	1100	H/o Lab Patiala	7.4	3.0	14	703	28000	3900	1.82	0.63	E	U	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	05.01.2023	1102	H/o Lab Patiala	8.0	3.1	10	565	21000	2200	1.72	0.51	E	U	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	05.01.2023	1103	H/o Lab Patiala	8.1	2.8	17	710	28000	3800	1.92	0.69	E	U	U
8	Ghaggar at Rattanheri	1473	10.01.2023	1167	H/o Lab Patiala	8.0	3.1	14	721	28000	4600	1.87	0.69	E	U	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10.01.2023	1168	H/o Lab Patiala	8.1	3.0	13	701	28000	3400	1.88	0.66	E	U	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10.01.2023	1169	H/o Lab Patiala	8.1	2.6	15	820	35000	5800	1.89	0.85	E	U	U
11	Ghaggar at Khanauri	1024	10.01.2023	1172	H/o Lab Patiala	7.9	3.0	14	708	28000	3800	1.70	0.82	E	U	U
12	Ghaggar at Moonak	1703	10.01.2023	1174	H/o Lab Patiala	7.8	2.2	17	771	35000	5800	1.75	0.95	E	U	U
13	Ghaggar at U/s Sardulgarh	1705	18.01.2023	1195	H/o Lab Patiala	7.6	4.3	12	527	21000	2100	1.64	0.55	D	U	U
14	Ghaggar at D/s Sardulgarh	1704	18.01.2023	1196	H/o Lab Patiala	7.5	4.0	13	591	22000	2600	1.66	0.65	D	U	U

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1	Ghaggar at Mubarikpur Rest House	1023	05.01.2023	1096	H/o Lab Patiala	56	460	442	315	269	30	11	146	35	14	219	BDL	9.4	1.0	13.2	1.2	1.1	51	22
2	Ghaggar at Bhankarapur	1295	05.01.2023	1097	H/o Lab Patiala	117	450	423	453	387	65	17	238	68	19	245	BDL	10.7	1.2	15.0	1.3	1.2	68	35
3	Ghaggar at Chattbir	1698	05.01.2023	1098	H/o Lab Patiala	112	370	358	463	395	68	18	253	70	19	253	BDL	11.6	1.3	16.2	1.4	1.3	65	37
4	Ghaggar at U/s Jharmal Nadi	1702	05.01.2023	1099	H/o Lab Patiala	66	290	222	377	321	43	16	175	45	15	238	BDL	11.4	1.2	16.0	1.3	1.2	53	27
5	Ghaggar at D/s Jharmal Nadi	1701	05.01.2023	1100	H/o Lab Patiala	76	280	247	417	355	50	17	194	51	16	261	BDL	11.8	1.3	16.5	1.2	1.2	58	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	05.01.2023	1102	H/o Lab Patiala	43	200	132	358	305	38	14	153	40	13	240	BDL	10.9	1.1	15.3	1.2	1.1	49	25
7	Ghaggar at D/s Dhakanshu Nallah	1700	05.01.2023	1103	H/o Lab Patiala	84	210	177	457	389	63	19	237	65	18	258	BDL	1.5	1.4	16.1	1.3	1.3	68	31
8	Ghaggar at Rattanheri	1473	10.01.2023	1167	H/o Lab Patiala	68	230	212	469	399	62	21	244	58	24	273	BDL	11.7	1.3	16.4	1.1	1.2	67	37
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	10.01.2023	1168	H/o Lab Patiala	63	230	200	453	387	58	19	220	55	20	269	BDL	11.4	.2	16.1	1.1	1.1	64	35
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	10.01.2023	1169	H/o Lab Patiala	75	245	229	493	421	65	24	268	66	25	277	BDL	9.6	1.3	13.4	1.2	1.2	71	39
11	Ghaggar at Khanauri	1024	10.01.2023	1172	H/o Lab Patiala	72	210	198	451	385	62	20	252	58	26	259	BDL	11.2	1.3	15.7	1.0	1.2	62	30
12	Ghaggar at Moonak	1703	10.01.2023	1174	H/o Lab Patiala	85	260	232	501	427	73	29	357	75	41	278	BDL	11.9	1.3	16.7	1.2	1.3	76	35
13	Ghaggar at U/s Sardulgarh	1705	18.01.2023	1195	H/o Lab Patiala	56	90	48	342	292	33	17	162	35	18	229	BDL	9.3	1.1	13.0	1.0	1.0	48	22
14	Ghaggar at D/s Sardulgarh	1704	18.01.2023	1196	H/o Lab Patiala	61	110	53	382	327	40	22	200	42	23	238	BDL	10.1	1.2	14.1	1.1	1.1	54	26

Note. 1. BDL means Below Method Detection Limit  
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