

## Quality of Water of Polluted River stretches in Punjab for the month of February, 2023

### 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	08.02.2023	SW 579	ZO Lab LDH	7.8	6.6	BDL	259	940	330	BDL	0.33	0.13	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	08.02.2023	SW 580	ZO Lab LDH	7.5	8.0	BDL	273	1700	700	BDL	0.34	0.34	C	S
3	River Satluj U/S Buddha Nallah	1690	09.02.2023	SW 583	ZO Lab LDH	7.6	7.0	2.0	311	3900	1300	BDL	0.63	0.32	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.02.2023	SW 585	ZO Lab LDH	7.3	1.2	45	843	21,00,000	4,30,000	0.062	2.17	0.48	E	S
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.02.2023	SW 587	ZO Lab LDH	7.6	3.9	10	502	4,60,000	1,70,000	0.080	1.41	0.29	E	S
6	River Satluj at D/s East Bein	1381	10.02.2023	SW 588	ZO Lab LDH	7.4	2.5	13	585	7,00,000	2,10,000	0.081	2.00	0.43	E	S
7	River Satluj at Harike	1022	10.02.2023	SW 589	ZO Lab LDH	7.5	6.2	2.8	402	4900	1700	0.044	1.44	0.30	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	08.02.2023	SW 579	ZO Lab LDH	BDL	10	11	152	130	8	24	132	36	10.2	82	BDL	BDL	1.2	BDL	BDL	0.19	8.6	3
2	River Satluj D/S of Rishab- Paper Mills	1293	08.02.2023	SW 580	ZO Lab LDH	BDL	11	13	165	143	13	27	130	36.8	9.2	88	BDL	BDL	1.1	BDL	BDL	0.18	8.8	3.2
3	River Satluj U/S Buddha Nallah	1690	09.02.2023	SW 583	ZO Lab LDH	10	42	35	193	158	16	34	136	38.4	9.7	102	BDL	BDL	2	BDL	0.39	0.19	17	3.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.02.2023	SW 585	ZO Lab LDH	180	110	176	522	423	99	62	256	58.4	26.7	214	BDL	6.2	3.2	8.7	1.54	0.27	80	10
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	10.02.2023	SW 587	ZO Lab LDH	52	70	136	307	254	49	42	160	40.8	14.1	124	BDL	3.2	2.9	5.0	0.80	0.22	41	6.6
6	River Satluj at D/s East Bein	1381	10.02.2023	SW 588	ZO Lab LDH	65	75	134	375	312	83	40	188	48.8	16.0	148	BDL	5.4	4	7.2	1.18	0.26	63	9.8
7	River Satluj at Harike	1022	10.02.2023	SW 589	ZO Lab LDH	20	85	138	259	220	44	26	132	33.6	11.7	124	BDL	2.2	2.2	3.3	0.34	0.21	38	6.7

**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 February, 2023

## 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
1	Ghaggar at Mubarikpur Rest House	1023	6.2.23	SW 1280	H/o Lab Patiala	7.9	4.5	13	567	22000	2600	7.6	1.83	0.54	D
2	Ghaggar at Bhankarpur	1295	6.2.23	SW 1281	H/o Lab Patiala	7.8	2.9	26	763	28000	3900	9.5	1.99	0.60	E
3	Ghaggar at Chattbir	1698	6.2.23	SW 1282	H/o Lab Patiala	7.7	3.2	25	739	28000	3800	10.4	1.95	0.65	E
4	Ghaggar at U/s Jharmal Nadi	1702	6.2.23	SW 1283	H/o Lab Patiala	7.8	3.5	16	647	28000	3200	10.7	1.84	0.52	E
5	Ghaggar at D/s Jharmal Nadi	1701	6.2.23	SW 1284	H/o Lab Patiala	7.7	3.0	18	727	35000	4600	11.2	1.89	0.66	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	6.2.23	SW 1286	H/o Lab Patiala	7.6	3.4	17	649	28000	3800	10.6	2.08	0.54	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	6.2.23	SW 1287	H/o Lab Patiala	7.8	2.9	19	789	35000	3900	11.3	1.97	0.70	E
8	Ghaggar at Rattanheri	1473	8.2.23	SW 1304	H/o Lab Patiala	7.6	3.2	21	810	35000	3900	11.7	1.97	0.78	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	8.2.23	SW 1305	H/o Lab Patiala	7.8	3.3	19	761	35000	3800	11.5	1.85	0.74	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	8.2.23	SW 1306	H/o Lab Patiala	7.9	3.0	24	851	43000	5800	10.2	1.96	0.92	E
11	Ghaggar at Khanauri	1024	8.2.23	SW 1309	H/o Lab Patiala	7.5	2.8	22	837	35000	4600	11.4	1.79	0.86	E
12	Ghaggar at Moonak	1703	8.2.23	SW 1311	H/o Lab Patiala	7.3	2.5	27	915	43000	6300	12.3	1.89	0.98	E
13	Ghaggar at U/s Sardulgarh	1705	13.2.23	SW 1315	H/o Lab Patiala	7.8	7.0	10	548	22000	2200	8.4	1.69	0.59	D
14	Ghaggar at D/s Sardulgarh	1704	13.2.23	SW 1312	H/o Lab Patiala	7.6	5.3	12	631	24000	3400	9.6	1.67	0.68	D

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	SO4 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	PO4as P mg/l	F mg/l	Na mg/l	K mg/l
1	Ghaggar at Mubarikpur Rest House	1023	6.2.23	SW 1280	H/o Lab Patiala	63	540	687	366	314	40	13	171	42	16	235	BDL	7.6	1.0	10.6	1.6	1.2	55	26
2	Ghaggar at Bhankarpur	1295	6.2.23	SW 1281	H/o Lab Patiala	126	350	342	498	426	72	19	283	75	23	255	BDL	9.5	1.1	13.3	2.2	1.3	77	41
3	Ghaggar at Chattbir	1698	6.2.23	SW 1282	H/o Lab Patiala	124	370	367	478	410	70	17	266	72	21	250	BDL	10.4	1.4	14.6	2.9	1.4	73	40
4	Ghaggar at U/s Jharmal Nadi	1702	6.2.23	SW 1283	H/o Lab Patiala	79	360	347	421	358	49	18	208	52	19	248	BDL	10.7	1.4	15.0	2.3	1.2	61	39
5	Ghaggar at D/s Jharmal Nadi	1701	6.2.23	SW 1284	H/o Lab Patiala	92	390	375	473	403	54	21	238	57	23	277	BDL	11.2	1.6	15.7	2.8	1.5	67	48
6	Ghaggar at U/s Dhakanshu Nallah	1699	6.2.23	SW 1286	H/o Lab Patiala	82	300	292	421	358	43	16	185	46	17	265	BDL	10.6	1.3	14.8	2.6	1.4	65	38
7	Ghaggar at D/s Dhakanshu Nallah	1700	6.2.23	SW 1287	H/o Lab Patiala	98	395	380	513	438	68	22	282	73	24	278	BDL	11.3	1.6	15.8	2.9	1.5	76	47
8	Ghaggar at Rattanheri	1473	8.2.23	SW 1304	H/o Lab Patiala	105	150	132	523	447	71	24	283	72	25	285	BDL	11.7	1.7	16.4	3.2	1.6	76	48
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	8.2.23	SW 1305	H/o Lab Patiala	98	160	137	493	421	65	21	265	68	23	280	BDL	11.5	1.5	16.1	3.0	1.6	69	44
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	8.2.23	SW 1306	H/o Lab Patiala	119	175	145	553	473	76	26	317	79	29	291	BDL	10.2	1.8	14.3	3.6	1.7	80	51
11	Ghaggar at Khanauri	1024	8.2.23	SW 1309	H/o Lab Patiala	107	145	138	546	467	76	29	323	78	31	287	BDL	11.4	1.5	16.0	3.2	1.6	74	46
12	Ghaggar at Moonak	1703	8.2.23	SW 1311	H/o Lab Patiala	132	165	159	596	510	80	35	395	83	45	295	BDL	12.3	1.7	17.2	3.9	1.9	86	52
13	Ghaggar at U/s Sardulgarh	1705	13.2.23	SW 1315	H/o Lab Patiala	98	45	29	357	305	34	16	173	38	19	232	BDL	8.4	1.2	11.8	2.0	1.1	51	27
14	Ghaggar at D/s Sardulgarh	1704	13.2.23	SW 1312	H/o Lab Patiala	64	60	34	409	348	45	21	221	47	25	247	BDL	9.6	1.3	13.4	2.5	1.2	57	31

Note. 1. BDL means Below Method Detection Limit

2. DBU means Designated Best Use (Class-A,B,C,D &amp; E)

3. Water Quality Index (S means Satisfactory, U means Unsatisfactory)