

Quality of Water of Polluted River stretches in Punjab for the month of April, 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 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	25.04.23	SW 1607	ZO Lab Ldh	8.0	9.0	BDL	289	700	260	BDL	0.29	0.10	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	25.04.23	SW 1608	ZO Lab Ldh	8.0	8.6	BDL	293	940	320	BDL	0.30	0.29	C	S
3	River Satluj U/S Buddha Nallah	1690	26.04.23	SW 1612	ZO Lab Ldh	8.2	8.1	1.2	394	1100	700	0.104	0.79	0.31	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	26.04.23	SW 1614	ZO Lab Ldh	7.2	BDL	105	1250	79,00,000	22,00,000	0.106	4.63	0.48	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	27.04.23	SW 1616	ZO Lab Ldh	7.4	BDL	41	733	28,00,000	12,00,000	0.047	2.81	0.32	E	U
6	River Satluj at D/s East Bein	1381	27.04.23	SW 1617	ZO Lab Ldh	7.2	BDL	50	808	35,00,000	17,00,000	0.049	2.65	0.40	E	U
7	River Satluj at Harike	1022	27.04.23	SW 1618	ZO Lab Ldh	7.7	6.8	3.6	356	5400	2200	0.051	0.62	0.33	D	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	25.04.23	SW 1607	ZO Lab Ldh	BDL	12	15	178	154	18	36	126	33.6	10.2	92	BDL	BDL	1.3	BDL	BDL	0.21	7.5	3.0
2	River Satluj D/S of Rishab- Paper Mills	1293	25.04.23	SW 1608	ZO Lab Ldh	BDL	15	19	178	152	15	34	134	37.6	9.7	94	BDL	BDL	2.0	BDL	BDL	0.17	8.0	2.6
3	River Satluj U/S Buddha Nallah	1690	26.04.23	SW 1612	ZO Lab Ldh	8	45	38	236	198	26	40	162	42.4	13.6	104	BDL	1.3	2.7	1.8	0.29	0.22	23	2.1
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	26.04.23	SW 1614	ZO Lab Ldh	346	150	210	804	642	124	78	280	73.6	23.3	212	BDL	10.6	2.6	14.0	2.4	0.76	178	14.9
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	27.04.23	SW 1616	ZO Lab Ldh	147	90	110	457	391	100	58	202	54	16.3	182	BDL	3.1	2.4	4.3	0.57	0.30	92	5.3
6	River Satluj at D/s East Bein	1381	27.04.23	SW 1617	ZO Lab Ldh	174	100	129	546	426	109	64	214	55.2	18.5	190	BDL	4.9	2.2	6.9	0.39	0.27	89	8.0
7	River Satluj at Harike	1022	27.04.23	SW 1618	ZO Lab Ldh	34	120	168	223	191	41	35	134	36.8	10.2	118	BDL	1.7	1.4	2.4	0.21	0.21	16.6	1.6

- 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 April, 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 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	SW 1572	12/4/2023	H/o Lab Patiala	8.2	5.3	9	505	22000	2600	0.58	1.79	0.99	D	U
2	Ghaggar at Bhankarpur	1295	SW 1573	12/4/2023	H/o Lab Patiala	7.7	3.4	29	810	28000	3900	0.28	2.04	0.58	E	U
3	Ghaggar at Chattbir	1698	SW 1574	12/4/2023	H/o Lab Patiala	7.4	3.2	26	752	35000	4600	0.15	1.98	0.56	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	SW 1575	12/4/2023	H/o Lab Patiala	7.6	3.6	12	672	28000	3800	0.25	1.91	0.50	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	SW 1576	12/4/2023	H/o Lab Patiala	7.8	3.2	16	723	35000	4800	0.36	1.94	0.57	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 1578	12/4/2023	H/o Lab Patiala	7.7	3.1	13	638	28000	3900	0.33	1.90	0.56	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 1579	12/4/2023	H/o Lab Patiala	7.1	2.9	17	807	35000	4600	0.01	1.99	0.60	E	U
8	Ghaggar at Rattanheri	1473	SW 1588	13/4/2023	H/o Lab Patiala	7.9	2.0	19	844	35000	5800	0.50	2.09	0.67	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 1589	13/4/2023	H/o Lab Patiala	7.8	2.6	18	772	35000	4800	0.39	1.99	0.64	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 1590	13/4/2023	H/o Lab Patiala	7.7	2.1	22	915	35000	6300	0.31	1.96	0.70	E	U
11	Ghaggar at Khanauri	1024	SW 1593	13/4/2023	H/o Lab Patiala	7.6	3.1	21	844	35000	5800	0.28	1.89	0.68	E	U
12	Ghaggar at Moonak	1703	SW 1595	13/4/2023	H/o Lab Patiala	7.7	2.8	24	971	43000	8400	0.36	2.01	0.65	E	U
13	Ghaggar at U/s Sardulgarh	1705	SW 1585	13/4/2023	H/o Lab Patiala	7.3	5.3	10	449	22000	2600	0.08	1.61	0.44	D	U
14	Ghaggar at D/s Sardulgarh	1704	SW 1586	13/4/2023	H/o Lab Patiala	7.4	4.4	11	597	24000	3400	0.14	1.70	0.51	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	SW 1572	H/o Lab Patiala	48	510	621	327	278	37	10	137	35	12	227	BDL	7.3	1.0	10.2	2.0	1.2	48	21
2	Ghaggar at Bhankarpur	1295	SW 1573	H/o Lab Patiala	122	470	400	524	446	78	22	307	80	26	272	BDL	9.3	2.2	13.0	2.2	1.3	82	43
3	Ghaggar at Chattbir	1698	SW 1574	H/o Lab Patiala	119	450	429	489	417	75	20	279	72	24	254	BDL	10.1	2.0	14.1	2.3	1.3	76	41
4	Ghaggar at U/s Jharmal Nadi	1702	SW 1575	H/o Lab Patiala	72	320	309	427	364	56	18	219	53	21	251	BDL	10.0	1.6	14.0	2.0	1.1	65	38
5	Ghaggar at D/s Jharmal Nadi	1701	SW 1576	H/o Lab Patiala	88	330	328	467	398	59	22	248	61	23	269	BDL	10.4	2.0	14.6	2.2	1.2	70	40
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 1578	H/o Lab Patiala	78	270	301	417	356	47	17	207	50	20	263	BDL	10.9	1.2	15.3	2.1	1.1	63	31
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 1579	H/o Lab Patiala	92	400	425	523	447	77	23	298	78	25	278	BDL	11.2	1.9	15.7	2.5	1.3	79	44
8	Ghaggar at Rattanheri	1473	SW 1588	H/o Lab Patiala	98	230	182	533	458	76	27	292	74	26	285	BDL	11.1	2.0	15.75	2.9	1.3	82	49
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 1589	H/o Lab Patiala	95	240	185	503	429	69	24	270	70	23	280	BDL	11.0	2.2	15.4	2.5	1.3	75	43
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 1590	H/o Lab Patiala	101	250	202	592	504	85	38	358	87	34	301	BDL	10.2	2.8	14.3	3.1	1.5	85	51
11	Ghaggar at Khanauri	1024	SW 1593	H/o Lab Patiala	99	235	211	549	468	80	26	323	83	28	290	BDL	11.3	2.6	15.8	3.0	1.4	78	48
12	Ghaggar at Moonak	1703	SW 1595	H/o Lab Patiala	105	250	265	627	534	89	43	397	91	41	310	BDL	12.0	3.2	16.8	3.4	1.8	92	53
13	Ghaggar at U/s Sardulgarh	1705	SW 1585	H/o Lab Patiala	51	40	29	293	251	27	15	123	26	14	215	BDL	8.3	0.8	11.6	1.7	1.1	41	19
14	Ghaggar at D/s Sardulgarh	1704	SW 1586	H/o Lab Patiala	60	70	51	357	304	37	22	177	38	20	229	BDL	9.3	0.9	13.0	2.0	1.3	52	27

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)