

Quality of Water of Polluted River stretches in Punjab for the month of April, 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 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	05.04.2022	SW 27	ZO Lab Ldh	7.7	8.0	BDL	296	2200	930	BDL	0.33	0.16	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	05.04.2022	SW 31	ZO Lab Ldh	7.6	7.6	BDL	478	2500	930	BDL	0.86	0.27	C	S
3	River Satluj U/S Buddha Nallah	1690	06.04.2022	SW 33	ZO Lab Ldh	8.0	6.8	1.2	438	3100	1100	BDL	1.00	0.51	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	06.04.2022	SW 35	ZO Lab Ldh	7.4	BDL	65	1302	54,00,000	22,00,000	0.214	6.45	0.33	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	07.04.2022	SW 37	ZO Lab Ldh	7.5	1.8	24	1023	3,50,000	79,000	0.250	2.83	0.20	E	U
6	River Satluj at D/s East Bein	1381	07.04.2022	SW 38	ZO Lab Ldh	8.4	1.4	37	1045	4,30,000	94,000	1.160	2.50	0.47	E	U
7	River Satluj at Harike	1022	07.04.2022	SW 39	ZO Lab Ldh	7.8	4.8	4	616	5800	1700	0.185	1.78	0.35	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	05.04.2022	SW 27	ZO Lab Ldh	BDL	13	14	168	152	18	14	122	30.4	11.2	86	BDL	BDL	1.6	BDL	BDL	0.21	8.4	3
2	River Satluj D/S of Rishab- Paper Mills	1293	05.04.2022	SW 31	ZO Lab Ldh	BDL	15	18	279	249	55	24	158	40	14.1	115	BDL	BDL	1.7	BDL	BDL	0.22	25	5.1
3	River Satluj U/S Buddha Nallah	1690	06.04.2022	SW 33	ZO Lab Ldh	8	47	32	256	226	33	21	148	37.6	13.1	121	BDL	BDL	1.9	BDL	0.24	0.29	28	6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	06.04.2022	SW 35	ZO Lab Ldh	232	140	304	802	658	191	49	224	56	20.4	270	BDL	14.3	3.2	20.0	2.1	0.36	222	51
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	07.04.2022	SW 37	ZO Lab Ldh	98	110	114	611	521	160	42	200	50.4	18.0	218	BDL	12.5	2.8	17.5	1.0	0.23	92	38
6	River Satluj at D/s East Bein	1381	07.04.2022	SW 38	ZO Lab Ldh	145	120	100	637	527	120	40	240	59.2	22.4	280	BDL	9.3	3.3	13.0	1.6	0.22	89	29
7	River Satluj at Harike	1022	07.04.2022	SW 39	ZO Lab Ldh	21	31	16	365	318	74	35	156	38.4	14.6	151	BDL	5.3	1.9	7.4	0.64	0.21	51	19

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, 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 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 4	7/4/22	H/o Lab Patiala	7.7	5.9	9	510	22000	3200	0.33	1.80	0.39	D	U
2	Ghaggar at Bhankarpur	1295	SW 5	7/4/22	H/o Lab Patiala	7.3	4.0	15	592	28000	5800	0.12	1.89	0.52	D	U
3	Ghaggar at Chattbir	1698	SW 6	7/4/22	H/o Lab Patiala	8.0	4.0	16	672	28000	6300	0.60	2.15	0.48	D	U
4	Ghaggar at U/s Jharmal Nadi	1702	SW 7	7/4/22	H/o Lab Patiala	7.7	4.1	12	511	24000	3400	0.33	1.70	0.41	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	SW 8	7/4/22	H/o Lab Patiala	7.4	3.1	13	610	28000	4600	0.17	1.74	0.49	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 10	7/4/22	H/o Lab Patiala	7.8	4.0	11	542	24000	2700	0.41	1.48	0.44	D	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 11	7/4/22	H/o Lab Patiala	7.5	3.3	14	704	35000	7000	0.25	2.08	0.50	E	U
8	Ghaggar at Rattanheri	1473	SW 18	19/4/22	H/o Lab Patiala	7.8	3.0	12	641	28000	4600	0.44	1.96	0.53	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 19	19/4/22	H/o Lab Patiala	8.0	3.2	11	613	28000	3800	0.61	1.96	0.51	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 20	19/4/22	H/o Lab Patiala	8.1	3.1	13	672	35000	5800	0.75	1.92	0.59	E	U
11	Ghaggar at Khanauri	1024	SW 23	19/4/22	H/o Lab Patiala	7.9	3.0	12	604	28000	4700	0.57	2.03	0.60	E	U
12	Ghaggar at Moonak	1703	SW 25	19/4/22	H/o Lab Patiala	7.8	2.8	14	693	35000	6300	0.46	2.01	0.67	E	U
13	Ghaggar at U/s Sardulgarh	1705	SW 82	25/4/22	H/o Lab Patiala	7.6	5.7	11	485	24000	3400	0.27	1.60	0.39	D	U
14	Ghaggar at D/s Sardulgarh	1704	SW 83	25/4/22	H/o Lab Patiala	7.5	5.4	12	572	28000	4600	0.23	1.56	0.44	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	7/4/22	SW 4	H/o Lab Patiala	41	430	458	327	278	31	10	141	33	14	224	BDL	10.9	0.9	15.3	1.3	1.1	49	21
2	Ghaggar at Bhankarpur	1295	7/4/22	SW 5	H/o Lab Patiala	77	460	469	368	314	33	14	179	45	16	231	BDL	11.5	1.0	16.1	1.4	1.1	58	24
3	Ghaggar at Chattbir	1698	7/4/22	SW 6	H/o Lab Patiala	81	490	487	415	354	42	15	206	51	19	245	BDL	11.9	1.2	16.7	1.3	1.3	71	31
4	Ghaggar at U/s Jharmal Nadi	1702	7/4/22	SW 7	H/o Lab Patiala	61	400	329	324	278	29	13	133	35	11	227	BDL	11.0	1.1	15.4	1.2	1.1	45	20
5	Ghaggar at D/s Jharmal Nadi	1701	7/4/22	SW 8	H/o Lab Patiala	67	410	392	377	324	35	14	190	48	17	232	BDL	11.6	1.2	16.2	1.3	1.1	55	27
6	Ghaggar at U/s Dhakanshu Nallah	1699	7/4/22	SW 10	H/o Lab Patiala	57	240	249	337	287	39	12	161	41	14	219	BDL	11.7	1.1	16.4	1.2	1.2	43	21
7	Ghaggar at D/s Dhakanshu Nallah	1700	7/4/22	SW 11	H/o Lab Patiala	68	245	261	452	386	51	21	240	53	26	249	BDL	12.4	1.2	17.4	1.3	1.3	74	37
8	Ghaggar at Rattanheri	1473	19/4/22	SW 18	H/o Lab Patiala	62	230	268	404	344	49	19	196	47	19	235	BDL	12.5	1.2	17.5	1.3	1.2	63	29
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	19/4/22	SW 19	H/o Lab Patiala	59	230	254	392	334	43	18	178	43	17	233	BDL	12.1	1.1	16.9	1.2	1.2	60	28
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	19/4/22	SW 20	H/o Lab Patiala	64	240	271	419	358	48	17	211	50	21	239	BDL	11.5	1.2	16.1	1.3	1.3	64	30
11	Ghaggar at Khanauri	1024	19/4/22	SW 23	H/o Lab Patiala	63	250	268	382	327	41	14	171	42	16	234	BDL	12.7	1.1	17.8	1.3	1.1	61	29
12	Ghaggar at Moonak	1703	19/4/22	SW 25	H/o Lab Patiala	69	265	292	442	377	51	21	224	53	22	247	BDL	13.2	1.1	18.5	1.3	1.2	69	35
13	Ghaggar at U/s Sardulgarh	1705	25/4/22	SW 82	H/o Lab Patiala	58	60	69	315	268	31	11	150	35	15	222	BDL	10.9	1.1	15.3	1.2	1.1	45	19
14	Ghaggar at D/s Sardulgarh	1704	25/4/22	SW 83	H/o Lab Patiala	62	70	78	369	315	37	14	201	46	21	230	BDL	11.4	1.1	16.0	1.3	1.2	51	25

Note. 1. BDL means Below Method Detection Limit

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