

## Quality of Water of Polluted River stretches in Punjab for the month of May, 2024

### 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
1	Ropar Head-Works	1019	08.05.24	SW 54	ZO Lab LDH	7.8	8.0	BDL	293	580	130	BDL	0.27	BDL	C
2	River Satluj D/S of Rishab- Paper Mills	1293	08.05.24	SW 58	ZO Lab LDH	7.2	9.5	BDL	435	580	130	BDL	0.80	0.31	C
3	River Satluj U/S Buddha Nallah	1690	09.05.24	SW 62	ZO Lab LDH	7.7	8.2	1.4	486	1200	380	0.027	1.53	0.40	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.05.24	SW 64	ZO Lab LDH	7.5	BDL	52	1039	17,00,000	3,90,000	0.170	3.83	1.02	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	13.05.24	SW 70	ZO Lab LDH	7.5	BDL	40	1087	54,000	11,000	0.048	3.67	0.51	E
6	River Satluj at D/s East Bein	1381	13.05.24	SW 71	ZO Lab LDH	7.5	1.1	50	1025	84,000	26,000	0.060	3.32	0.61	E
7	River Satluj at Harike	1022	13.05.24	SW 72	ZO Lab LDH	7.6	9.7	4.2	280	3500	1100	0.035	0.30	0.40	D

S.N.	Point of Sample Collection	Code	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	SW 54	ZO Lab Ldh	BDL	40	19	188	162	19	42	126	33.6	10.2	88	BDL	BDL	2.2	BDL	BDL	0.24	6.9	2.2
2	River Satluj D/S of Rishab- Paper Mills	1293	SW 58	ZO Lab Ldh	BDL	21	14	310	261	49	48	170	44.8	14.1	118	BDL	BDL	2.4	BDL	BDL	0.27	24	8.9
3	River Satluj U/S Buddha Nallah	1690	SW 62	ZO Lab Ldh	10	30	32	358	297	60	61	186	48.8	15.6	158	BDL	0.9	2.8	1.5	0.29	0.46	48	7.8
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	SW 64	ZO Lab Ldh	192	120	110	768	614	240	68	246	65.6	19.9	240	BDL	8.5	4.2	12.2	1.86	0.59	138	16
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	SW 70	ZO Lab Ldh	156	55	118	752	602	217	65	260	69.6	20.9	240	BDL	2.4	4.1	3.0	0.35	0.54	136	17
6	River Satluj at D/s East Bein	1381	SW 71	ZO Lab Ldh	188	65	126	725	582	190	56	276	73.6	22.4	272	BDL	3.0	4.6	4.2	0.58	0.62	127	18
7	River Satluj at Harike	1022	SW 72	ZO Lab Ldh	36	70	98	181	148	18	25	112	29.6	9.2	110	BDL	1.4	3.2	2.0	0.33	0.32	7.2	2.4

- 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 May, 2024 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	8/5/2024	SW 96	H/o Lab Patiala	7.4	5.3	7	510	21000	1700	1.87	0.14	0.43	D
2	Ghaggar at Bhankarpur	1295	8/5/2024	SW97	H/o Lab Patiala	8.0	3.6	16	853	24000	2700	2.16	0.55	0.76	E
3	Ghaggar at Chattbir	1698	8/5/2024	SW 98	H/o Lab Patiala	7.9	3.0	18	947	24000	3400	2.26	0.54	0.78	E
4	Ghaggar at U/s Jharmal Nadi	1702	8/5/2024	SW 99	H/o Lab Patiala	7.7	4.0	13	910	24000	2100	1.78	0.34	0.60	E
5	Ghaggar at D/s Jharmal Nadi	1701	8/5/2024	SW 100	H/o Lab Patiala	7.7	3.2	16	865	24000	3400	2.19	0.43	0.79	D
6	Ghaggar at U/s Dhakanshu Nallah	1699	8/5/2024	SW 102	H/o Lab Patiala	7.6	3.7	12	681	22000	2600	1.99	0.29	0.60	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	8/5/2024	SW 103	H/o Lab Patiala	7.5	3.1	17	921	28000	3200	2.23	0.30	0.82	E
8	Ghaggar at Rattanheri	1473	14/5/2024	SW 147	H/o Lab Patiala	7.7	3.4	16	981	28000	3800	2.28	0.37	0.0	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	14/5/2024	SW 148	H/o Lab Patiala	8.0	3.1	15	931	28000	3200	2.29	0.60	0.79	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	14/5/2024	SW 149	H/o Lab Patiala	7.8	2.1	19	1025	28000	4600	2.50	0.41	0.86	E
11	Ghaggar at Khanauri	1024	14/5/2024	SW 152	H/o Lab Patiala	7.7	3.5	18	951	28000	3800	2.30	0.36	0.84	E
12	Ghaggar at Moonak	1703	14/5/2024	SW 154	H/o Lab Patiala	8.0	2.1	20	1121	35000	5800	2.33	0.63	0.90	E
13	Ghaggar at U/s Sardulgarh	1705	13/5/2024	SW 144	H/o Lab Patiala	8.0	6.9	8	451	21000	1700	1.52	0.44	0.29	D
14	Ghaggar at D/s Sardulgarh	1704	13/5/2024	SW 145	H/o Lab Patiala	8.0	4.8	9	631	22000	2200	1.64	0.48	0.46	D

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1	Ghaggar at Mubarikpur Rest House	1023	SW 96	H/o Lab Patiala	38	530	510	332	285	42	8	130	37	9	245	BDL	9.3	1.0	13.0	1.2	1.1	49	11
2	Ghaggar at Bhankarpur	1295	SW97	H/o Lab Patiala	83	480	490	558	477	70	17	342	94	26	306	BDL	11.0	1.2	15.4	1.3	1.2	92	39
3	Ghaggar at Chattbir	1698	SW 98	H/o Lab Patiala	92	510	500	615	524	94	24	362	97	29	315	BDL	11.9	1.3	16.7	1.5	1.3	99	51
4	Ghaggar at U/s Jharmal Nadi	1702	SW 99	H/o Lab Patiala	58	400	380	514	437	52	13	215	58	17	278	BDL	11.3	1.2	15.8	1.4	1.3	60	27
5	Ghaggar at D/s Jharmal Nadi	1701	SW 100	H/o Lab Patiala	84	410	425	571	491	86	24	320	90	23	297	BDL	14.3	1.3	20.0	1.2	1.4	90	37
6	Ghaggar at U/s Dhakanshu Nallah	1699	SW 102	H/o Lab Patiala	54	360	319	447	381	60	19	227	61	18	261	BDL	11.4	1.2	16.0	1.2	1.3	69	28
7	Ghaggar at D/s Dhakanshu Nallah	1700	SW 103	H/o Lab Patiala	83	400	395	599	511	92	27	358	94	30	309	BDL	11.8	1.5	16.5	1.4	1.3	97	40
8	Ghaggar at Rattanheri	1473	SW 147	H/o Lab Patiala	78	300	289	641	647	99	31	386	100	33	315	BDL	12.2	2.0	17.1	2.3	1.9	103	49
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	SW 148	H/o Lab Patiala	68	300	280	65	517	92	29	361	95	30	300	BDL	12.0	2.0	16.8	2.3	1.8	100	47
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	SW 149	H/o Lab Patiala	91	350	342	671	573	97	35	416	104	38	310	BDL	11.7	2.1	16.4	2.3	2.0	117	55
11	Ghaggar at Khanauri	1024	SW 152	H/o Lab Patiala	78	310	290	619	531	93	26	380	99	32	303	BDL	12.1	2.0	16.9	2.5	2.2	103	51
12	Ghaggar at Moonak	1703	SW 154	H/o Lab Patiala	96	330	339	731	629	108	41	495	117	49	335	BDL	12.6	2.3	17.6	2.7	2.7	119	59
13	Ghaggar at U/s Sardulgarh	1705	SW 144	H/o Lab Patiala	40	70	48	292	251	34	9	113	32	8	219	BDL	8.7	1.2	12.2	1.1	1.1	37	18
14	Ghaggar at D/s Sardulgarh	1704	SW 145	H/o Lab Patiala	48	90	62	409	348	46	19	229	52	24	263	BDL	9.5	1.3	13.3	1.2	1.2	57	24

- 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)**