

Quality of Water of Polluted River stretches in Punjab for the month of March, 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
1	Ropar Head-Works	1019	14.03.2023	SW 625	ZO Lab LDH	7.9	9.0	BDL	342	940	320	BDL	0.31	0.11	C
2	River Satluj D/S of Rishab- Paper Mills	1293	14.03.2023	SW 626	ZO Lab LDH	8.5	9.8	BDL	325	1100	460	BDL	0.40	0.31	C
3	River Satluj U/S Buddha Nallah	1690	17.03.2023	SW 632	ZO Lab LDH	7.8	6.7	2.4	358	1200	380	BDL	1.00	0.34	C
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17.03.2023	SW 634	ZO Lab LDH	7.2	BDL	75	1167	39,00,000	13,00,000	0.054	4.77	0.51	E
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.03.2023	SW 1487	ZO Lab LDH /HO Lab PAT	7.3	3.0	8.0	478	3,10,000	1,70,000	0.030	1.94	0.33	E
6	River Satluj at D/s East Bein	1381	20.03.2023	SW 1488	ZO Lab LDH /HO Lab PAT	7.2	1.0	14	740	4,90,000	1,70,000	0.046	2.04	0.42	E
7	River Satluj at Harike	1022	28.03.2023	SW 1505	ZO Lab LDH /HO Lab PAT	7.5	7.5	2.6	394	4800	2100	0.022	1.21	0.34	C

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	14.03.2023	SW 625	ZO Lab LDH	BDL	8	12	194	170	15	59	118	32	9.2	84	BDL	BDL	1.1	BDL	BDL	0.19	7.8	2.9
2	River Satluj D/S of Rishab- Paper Mills	1293	14.03.2023	SW 626	ZO Lab LDH	BDL	15	14	201	175	12	64	126	34.4	9.7	88	BDL	1.6	0.7	2.0	BDL	0.18	10.2	3.2
3	River Satluj U/S Buddha Nallah	1690	17.03.2023	SW 632	ZO Lab LDH	8.0	14	17	215	184	19	38	154	36.8	15.1	98	BDL	BDL	1.1	1.7	0.28	0.20	28.5	7.6
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17.03.2023	SW 634	ZO Lab LDH	252	100	80	702	578	124	86	288	68.8	28.2	162	BDL	5.4	1.1	8.1	1.2	0.33	186	20
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	20.03.2023	SW 1487	ZO Lab LDH	44	70	102	414	362	94	54	212	56	17.5	178	BDL	3.0	1.3	4.7	0.92	0.32	65	7.2
6	River Satluj at D/s East Bein	1381	20.03.2023	SW 1488	ZO Lab LDH	72	85	116	458	395	104	60	236	63.2	19.0	182	BDL	4.6	1.7	6.4	1.1	0.36	72	8.4
7	River Satluj at Harike	1022	28.03.2023	SW 1505	ZO Lab LDH	18	110	154	245	207	38	32	132	34.4	11.2	112	BDL	1.1	1.4	1.8	0.64	0.24	32	6.6

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 March, 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
1	Ghaggar at Mubarikpur Rest House	1023	7.3.2023	1404	H/o Lab Patiala	7.9	5.2	10	545	21000	2200	7.7	1.78	0.48	D
2	Ghaggar at Bhankarpur	1295	7.3.2023	1405	H/o Lab Patiala	7.6	3.0	32	845	28000	3800	10.2	2.05	0.63	E
3	Ghaggar at Chattbir	1698	7.3.2023	1406	H/o Lab Patiala	7.8	2.8	30	798	28000	4600	10.6	1.95	0.67	E
4	Ghaggar at U/s Jharmal Nadi	1702	7.3.2023	1407	H/o Lab Patiala	7.9	3.2	15	696	24000	3400	10.5	1.94	0.60	E
5	Ghaggar at D/s Jharmal Nadi	1701	7.3.2023	1408	H/o Lab Patiala	8.0	2.9	19	753	28000	3900	11.4	1.95	0.69	E
6	Ghaggar at U/s Dhakanshu Nallah	1699	7.3.2023	1410	H/o Lab Patiala	7.7	3.3	19	682	28000	2700	10.9	1.94	0.58	E
7	Ghaggar at D/s Dhakanshu Nallah	1700	7.3.2023	1411	H/o Lab Patiala	7.8	3.0	26	848	35000	3900	11.7	2.02	0.69	E
8	Ghaggar at Rattanheri	1473	13.3.2023	1432	H/o Lab Patiala	7.7	2.2	23	861	35000	4600	11.5	2.09	0.65	E
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13.3.2023	1433	H/o Lab Patiala	7.9	2.9	21	819	35000	3800	11.2	1.99	0.63	E
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13.3.2023	1434	H/o Lab Patiala	7.8	2.3	25	897	35000	3800	9.8	2.10	0.71	E
11	Ghaggar at Khanauri	1024	13.3.2023	1437	H/o Lab Patiala	7.9	3.0	22	872	35000	6300	11.6	1.88	0.73	E
12	Ghaggar at Moonak	1703	13.3.2023	1439	H/o Lab Patiala	7.9	2.5	27	943	43000	7000	11.9	1.98	0.80	E
13	Ghaggar at U/s Sardulgarh	1705	3.3.2023	1400	H/o Lab Patiala	7.8	5.0	10	510	21000	2100	8.7	1.63	0.53	D
14	Ghaggar at D/s Sardulgarh	1704	3.3.2023	1401	H/o Lab Patiala	7.8	4.8	12	601	22000	2600	9.9	1.67	0.65	D

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1	Ghaggar at Mubarikpur Rest House	1023	7.3.2023	1404	H/o Lab Patiala	52	590	702	353	306	38	11	156	39	14	231	BDL	7.7	1.1	10.8	1.7	1.2	51	24
2	Ghaggar at Bhankarpur	1295	7.3.2023	1405	H/o Lab Patiala	192	460	412	549	472	80	26	327	83	29	264	BDL	10.2	1.3	14.3	2.0	1.4	85	47
3	Ghaggar at Chattbir	1698	7.3.2023	1406	H/o Lab Patiala	148	490	420	519	443	76	22	302	78	26	258	BDL	10.6	1.2	14.8	2.6	1.3	78	45
4	Ghaggar at U/s Jharmal Nadi	1702	7.3.2023	1407	H/o Lab Patiala	74	300	282	453	387	53	20	234	57	22	252	BDL	10.5	1.2	14.7	2.3	1.2	68	42
5	Ghaggar at D/s Jharmal Nadi	1701	7.3.2023	1408	H/o Lab Patiala	93	340	325	491	421	58	21	266	65	25	278	BDL	11.4	1.1	16.0	2.4	1.3	73	44
6	Ghaggar at U/s Dhakanshu Nallah	1699	7.3.2023	1410	H/o Lab Patiala	90	300	296	443	378	50	19	219	53	21	272	BDL	10.9	1.1	15.3	2.2	1.1	66	35
7	Ghaggar at D/s Dhakanshu Nallah	1700	7.3.2023	1411	H/o Lab Patiala	129	425	410	553	473	79	25	320	82	28	281	BDL	11.7	1.3	16.4	2.9	1.4	83	48
8	Ghaggar at Rattanheri	1473	13.3.2023	1432	H/o Lab Patiala	112	210	172	559	478	76	28	314	78	29	291	BDL	11.5	1.5	16.1	2.6	1.7	85	52
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	13.3.2023	1433	H/o Lab Patiala	101	220	178	532	453	72	27	290	73	26	288	BDL	11.2	1.3	15.7	2.3	1.4	78	47
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	13.3.2023	1434	H/o Lab Patiala	122	245	200	583	497	83	28	341	85	31	297	BDL	9.8	1.6	13.7	2.9	1.8	89	53
11	Ghaggar at Khanauri	1024	13.3.2023	1437	H/o Lab Patiala	110	225	198	567	483	84	27	334	86	29	293	BDL	11.6	1.5	16.2	2.9	1.7	79	50
12	Ghaggar at Moonak	1703	13.3.2023	1439	H/o Lab Patiala	129	240	225	613	523	86	39	374	87	38	301	BDL	11.9	1.8	16.7	3.3	1.7	88	56
13	Ghaggar at U/s Sardulgarh	1705	3.3.2023	1400	H/o Lab Patiala	48	60	35	332	284	31	13	150	32	17	229	BDL	8.7	1.1	12.2	1.8	1.1	46	22
14	Ghaggar at D/s Sardulgarh	1704	3.3.2023	1401	H/o Lab Patiala	61	75	48	392	334	43	19	119	45	21	240	BDL	9.9	1.2	13.9	2.2	1.1	54	30

Note. 1. BDL means Below Method Detection Limit
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