

Quality of Water of Polluted River stretches in Punjab for the month of November, 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	07.11.2022	SW 408	ZO Lab Ldh	8.4	8.8	BDL	326	1700	460	BDL	0.43	0.13	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	07.11.2022	SW 411	ZO Lab Ldh	8.1	8.6	BDL	364	2300	1300	0.052	0.29	0.35	C	S
3	River Satluj U/S Buddha Nallah	1690	09.11.2022	SW 431	ZO Lab Ldh	7.8	7.6	1.4	354	3900	1300	0.028	0.60	0.15	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.11.2022	SW 433	ZO Lab Ldh	7.4	BDL	140	988	58,00,000	23,00,000	0.105	1.94	0.40	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.11.2022	SW 435	ZO Lab Ldh	7.3	1.2	70	851	11,00,000	4,90,000	0.039	2.35	0.25	E	U
6	River Satluj at D/s East Bein	1381	11.11.2022	SW 436	ZO Lab Ldh	7.4	2.3	14	869	6,30,000	2,60,000	0.096	2.39	0.29	E	U
7	River Satluj at Harike	1022	11.11.2022	SW 437	ZO Lab Ldh	7.6	6.4	2.4	660	4700	2100	0.050	0.82	0.34	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 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	07.11.2022	SW 408	ZO Lab LDH	BDL	6	BDL	185	159	7	7	138	35.2	12.2	114	BDL	BDL	1.3	BDL	BDL	0.24	11.7	5.1
2	River Satluj D/S of Rishab- Paper Mills	1293	07.11.2022	SW 411	ZO Lab LDH	BDL	26	50	212	182	8	10	152	40	12.6	136	BDL	0.8	1.4	BDL	BDL	0.24	8.1	3.5
3	River Satluj U/S Buddha Nallah	1690	09.11.2022	SW 431	ZO Lab LDH	10	15	12	210	182	11	8	150	38.4	13.1	112	BDL	0.8	1.7	1.6	0.29	0.26	17.0	6.5
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	09.11.2022	SW 433	ZO Lab LDH	470	160	302	613	474	134	46	290	79.2	22.4	290	BDL	7.0	2.9	9.8	3.21	0.46	76	30
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	11.11.2022	SW 435	ZO Lab LDH	234	140	272	546	423	107	42	266	68.8	22.8	226	BDL	3.9	2.4	5.1	2.88	0.37	88	23
6	River Satluj at D/s East Bein	1381	11.11.2022	SW 436	ZO Lab LDH	61	46	92	550	410	101	39	280	72	24.3	234	BDL	6.4	2.3	9.2	2.04	0.35	92	27
7	River Satluj at Harike	1022	11.11.2022	SW 437	ZO Lab LDH	18	78	144	407	328	142	40	220	57.6	18.5	136	BDL	2.5	2.2	3.5	1.20	0.31	28	7.1

- 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 November, 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 µs/Cm	T.Coli MPN/ 100ml	F. Coli MPN/ 100ml	SAR	B mg/l	Quality of water as per DBDU	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	2.11.2022	SW 830	H/o Lab Patiala	7.7	5.1	10	447	24000	3400	1.97	0.52	D	U
2	Ghaggar at Bhankarpur	1295	2.11.2022	SW 831	H/o Lab Patiala	7.5	3.3	15	567	28000	5800	1.67	0.63	E	U
3	Ghaggar at Chattbir	1698	2.11.2022	SW 832	H/o Lab Patiala	7.5	3.3	17	625	28000	6300	1.75	0.65	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	2.11.2022	SW 833	H/o Lab Patiala	7.2	4.1	11	498	24000	3400	1.67	0.58	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	2.11.2022	SW 834	H/o Lab Patiala	7.5	3.4	17	593	28000	4300	1.68	0.64	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	2.11.2022	SW 836	H/o Lab Patiala	7.4	3.6	12	493	22000	3200	1.67	0.57	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	2.11.2022	SW 837	H/o Lab Patiala	7.7	3.1	14	615	35000	6300	1.78	0.60	E	U
8	Ghaggar at Rattanheri	1473	9.11.2022	SW 869	H/o Lab Patiala	7.5	2.8	18	672	35000	7000	1.85	0.68	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9.11.2022	SW 870	H/o Lab Patiala	7.5	3.1	17	647	28000	6300	1.84	0.65	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9.11.2022	SW 871	H/o Lab Patiala	7.9	3.0	21	722	35000	7900	1.89	0.71	E	U
11	Ghaggar at Khanauri	1024	9.11.2022	SW 874	H/o Lab Patiala	7.6	3.2	19	727	35000	7000	1.76	0.75	E	U
12	Ghaggar at Moonak	1703	9.11.2022	SW 876	H/o Lab Patiala	7.7	2.7	22	787	43000	8400	1.75	0.78	E	U
13	Ghaggar at U/s Sardulgarh	1705	15.11.2022	SW 925	H/o Lab Patiala	7.4	5.0	10	483	21000	2700	1.58	0.55	D	U
14	Ghaggar at D/s Sardulgarh	1704	15.11.2022	SW 926	H/o Lab Patiala	7.4	4.6	11	537	28000	3900	1.53	0.59	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	2.11.2022	SW 830	H/o Lab Patiala	51	510	587	289	247	29	11	113	27	11	214	BDL	11.3	1.1	15.8	1.1	1.0	48	19
2	Ghaggar at Bhankarpur	1295	2.11.2022	SW 831	H/o Lab Patiala	76	470	378	367	312	49	12	190	53	14	238	BDL	12.1	1.1	16.9	1.2	1.1	53	27
3	Ghaggar at Chattbir	1698	2.11.2022	SW 832	H/o Lab Patiala	79	480	401	406	347	56	15	209	57	16	243	BDL	12.3	1.2	17.2	1.4	1.2	58	29
4	Ghaggar at U/s Jharmal Nadi	1702	2.11.2022	SW 833	H/o Lab Patiala	57	310	258	323	276	34	12	137	35	12	227	BDL	12.3	1.2	17.1	1.2	1.2	45	21
5	Ghaggar at D/s Jharmal Nadi	1701	2.11.2022	SW 834	H/o Lab Patiala	78	390	368	387	329	51	15	188	52	14	243	BDL	13.1	1.2	18.3	1.1	1.2	53	26
6	Ghaggar at U/s Dhakanshu Nallah	1699	2.11.2022	SW 836	H/o Lab Patiala	58	345	348	319	273	36	13	144	38	12	229	BDL	12.7	1.1	17.8	1.1	1.2	46	21
7	Ghaggar at D/s Dhakanshu Nallah	1700	2.11.2022	SW 837	H/o Lab Patiala	73	410	465	398	339	54	19	202	56	15	242	BDL	12.9	1.2	18.1	1.2	1.3	58	24
8	Ghaggar at Rattanheri	1473	9.11.2022	SW 869	H/o Lab Patiala	82	415	315	437	373	59	22	227	58	20	256	BDL	13.8	1.2	19.3	1.3	1.2	64	31
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9.11.2022	SW 870	H/o Lab Patiala	80	425	328	421	358	55	20	216	55	19	252	BDL	13.6	1.1	19.0	1.3	1.2	62	29
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9.11.2022	SW 871	H/o Lab Patiala	88	440	342	470	401	68	26	253	63	23	261	BDL	12.9	1.3	18.0	1.3	1.3	69	35
11	Ghaggar at Khanauri	1024	9.11.2022	SW 874	H/o Lab Patiala	83	370	357	472	402	62	24	282	65	29	264	BDL	14.3	1.2	20.0	1.3	1.2	68	36
12	Ghaggar at Moonak	1703	9.11.2022	SW 876	H/o Lab Patiala	91	400	378	512	437	68	29	322	71	35	279	BDL	14.7	1.3	20.6	1.3	1.2	72	31
13	Ghaggar at U/s Sardulgarh	1705	15.11.2022	SW 925	H/o Lab Patiala	47	70	57	314	268	32	14	135	29	15	221	BDL	12.2	1.1	17.1	1.1	1.1	42	16
14	Ghaggar at D/s Sardulgarh	1704	15.11.2022	SW 926	H/o Lab Patiala	56	85	82	348	296	39	17	171	37	19	234	BDL	12.7	1.1	17.8	1.2	1.1	46	21

Note. 1. BDL means Below Method Detection Limit
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