

Quality of Water of Polluted River stretches in Punjab for the month of December, 2021

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	10.12.2021	SW 114	ZO Lab LDH	7.9	9.2	BDL	268	3400	1300	BDL	0.28	0.16	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	10.12.2021	SW 113	ZO Lab LDH	7.8	9.3	BDL	256	3800	1300	BDL	0.32	0.44	C	S
3	River Satluj U/S Buddha Nallah	1690	13.12.2021	SW 119	ZO Lab LDH	7.9	7.2	1.4	321	4800	2200	0.036	0.51	0.40	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	13.12.2021	SW 121	ZO Lab LDH	7.3	BDL	26	693	31,00,000	17,00,000	0.059	1.97	0.48	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.12.2021	SW 125	ZO Lab LDH	7.5	3.8	8	452	2,60,000	93,000	0.048	1.06	0.30	D	U
6	River Satluj at D/s East Bein	1381	14.12.2021	SW 126	ZO Lab LDH	7.4	2.0	11	924	6,30,000	2,60,000	0.086	2.65	0.49	E	U
7	River Satluj at Harike	1022	14.12.2021	SW 127	ZO Lab LDH	7.7	6.9	2.2	345	4900	1700	0.024	0.80	0.40	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 -P mg/l	F mg/l	Na mg/l	K mg/l
1	Ropar Head-Works	1019	10.12.2021	SW 114	ZO Lab Ldh	BDL	10	13	139	124	9	15	108	25.6	10.7	72	BDL	BDL	1.5	BDL	BDL	0.21	6.6	1.5
2	River Satluj D/S of Rishab- Paper Mills	1293	10.12.2021	SW 113	ZO Lab Ldh	BDL	11	14	138	121	11	9	114	27.2	11.2	78	BDL	BDL	1.8	BDL	BDL	0.32	7.8	1.5
3	River Satluj U/S Buddha Nallah	1690	13.12.2021	SW 119	ZO Lab Ldh	12	50	73	206	174	32	21	124	30.4	11.7	94	BDL	0.8	2.6	1.2	0.43	0.34	13.1	2.9
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	13.12.2021	SW 121	ZO Lab LDH	108	110	120	423	335	87	32	190	44.8	19.0	180	BDL	5.9	2.4	8.3	2.60	0.57	62.5	8.9
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	14.12.2021	SW 125	ZO Lab LDH	44	60	59	276	228	42	26	158	40.8	13.6	118	BDL	2.4	1.9	3.3	2.11	0.21	30.7	6.6
6	River Satluj at D/s East Bein	1381	14.12.2021	SW 126	ZO Lab LDH	62	70	65	564	453	108	32	204	50.4	19.0	296	BDL	5.7	1.8	8.0	3.34	0.23	87	16.3
7	River Satluj at Harike	1022	14.12.2021	SW 127	ZO Lab LDH	14	85	93	207	180	31	18	122	31.2	10.7	114	BDL	0.8	2.2	1.1	0.31	0.27	20.2	4.4

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 December, 2021
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	10/12/2021	5457	H/o Lab Patiala	7.6	4.6	11	578	21000	2600	0.21	2.07	0.42	D	U
2	Ghaggar at Bhankarpur	1295	10/12/2021	5458	H/o Lab Patiala	7.4	3.4	19	628	24000	3400	0.14	2.01	0.57	E	U
3	Ghaggar at Chattbir	1698	10/12/2021	5459	H/o Lab Patiala	7.2	3.7	22	692	28000	3900	0.10	1.89	0.59	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	10/12/2021	5460	H/o Lab Patiala	7.6	4.0	16	602	24000	3300	0.23	1.90	0.53	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	10/12/2021	5461	H/o Lab Patiala	7.4	3.5	21	704	28000	4600	0.16	1.77	0.58	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	10/12/2021	5463	H/o Lab Patiala	7.5	3.3	15	610	24000	3400	0.22	1.67	0.61	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	10/12/2021	5464	H/o Lab Patiala	7.4	3.0	21	710	28000	4600	0.18	1.82	0.68	E	U
8	Ghaggar at Rattanheri	1473	20/12/2021	5483	H/o Lab Patiala	7.3	3.1	18	685	28000	3800	0.15	1.87	0.71	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	20/12/2021	5484	H/o Lab Patiala	7.4	3.3	17	665	28000	3800	0.21	1.79	0.68	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	20/12/2021	5485	H/o Lab Patiala	7.4	2.8	20	715	28000	4000	0.21	1.82	0.74	E	U
11	Ghaggar at Khanauri	1024	20/12/2021	5488	H/o Lab Patiala	7.4	3.4	16	615	28000	3900	0.22	1.83	0.72	E	U
12	Ghaggar at Moonak	1703	20/12/2021	5490	H/o Lab Patiala	7.7	3.2	20	735	35000	6300	0.45	1.92	0.76	E	U
13	Ghaggar at U/s Sardulgarh	1705	23/12/2021	5491	H/o Lab Patiala	7.2	5.3	10	465	17000	2700	0.08	1.72	0.39	D	U
14	Ghaggar at D/s Sardulgarh	1704	23/12/2021	5492	H/o Lab Patiala	7.3	5.1	12	525	21000	3100	0.09	1.65	0.44	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	10/12/2021	5457	H/o Lab Patiala	57	430	427	368	319	32	16	150	35	15	217	BDL	8.3	1.1	11.6	1.2	1.2	58	24
2	Ghaggar at Bhankarpur	1295	10/12/2021	5458	H/o Lab Patiala	78	390	402	402	343	45	17	192	47	18	234	BDL	9.3	1.2	13.0	1.3	1.2	64	27
3	Ghaggar at Chattbir	1698	10/12/2021	5459	H/o Lab Patiala	87	300	315	438	373	58	21	239	56	24	242	BDL	10.2	1.3	14.3	1.6	1.2	67	29
4	Ghaggar at U/s Jharmal Nadi	1702	10/12/2021	5460	H/o Lab Patiala	64	295	265	357	307	36	16	165	41	15	221	BDL	9.3	1.1	13.0	1.2	1.0	56	26
5	Ghaggar at D/s Jharmal Nadi	1701	10/12/2021	5461	H/o Lab Patiala	82	310	297	447	395	59	22	263	64	25	236	BDL	10.7	1.4	14.5	1.5	1.2	66	31
6	Ghaggar at U/s Dhakanshu Nallah	1699	10/12/2021	5463	H/o Lab Patiala	61	210	229	383	338	49	15	198	51	17	224	BDL	11.1	1.1	15.5	1.3	1.2	54	22
7	Ghaggar at D/s Dhakanshu Nallah	1700	10/12/2021	5464	H/o Lab Patiala	79	230	285	472	405	55	23	257	60	26	235	BDL	11.7	1.2	16.4	1.3	1.2	67	30
8	Ghaggar at Rattanheri	1473	20/12/2021	5483	H/o Lab Patiala	73	195	213	439	386	51	19	221	54	21	233	BDL	14.9	1.1	20.9	1.2	1.2	64	31
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	20/12/2021	5484	H/o Lab Patiala	71	185	193	411	353	49	18	212	52	20	229	BDL	14.3	1.1	20.0	1.2	1.2	60	29
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	20/12/2021	5485	H/o Lab Patiala	84	215	200	453	389	57	25	273	63	28	239	BDL	13.7	1.2	19.2	1.3	1.2	69	32
11	Ghaggar at Khanauri	1024	20/12/2021	5488	H/o Lab Patiala	69	190	167	395	336	43	19	197	46	20	232	BDL	14.5	1.1	20.3	1.2	1.2	59	30
12	Ghaggar at Moonak	1703	20/12/2021	5490	H/o Lab Patiala	83	220	201	475	406	58	27	282	65	29	247	BDL	15.1	1.2	21.1	1.3	1.2	74	39
13	Ghaggar at U/s Sardulgarh	1705	23/12/2021	5491	H/o Lab Patiala	48	35	49	292	251	31	10	113	27	11	202	BDL	8.5	1.1	11.9	1.2	1.1	42	18
14	Ghaggar at D/s Sardulgarh	1704	23/12/2021	5492	H/o Lab Patiala	58	40	52	332	284	36	14	157	37	15	215	BDL	8.9	1.1	12.5	1.3	1.2	47	21

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