

Quality of Water of Polluted River stretches in Punjab for the month of November, 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	15.11.2021	SW 69	ZO Lab LDH	7.9	8.1	BDL	263	3300	1100	BDL	0.30	0.15	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	15.11.2021	SW 70	ZO Lab LDH	8.1	7.9	BDL	301	3400	1100	BDL	0.46	0.41	C	S
3	River Satluj U/S Buddha Nallah	1690	17.11.2021	SW 72	ZO Lab LDH	7.8	7.2	1.2	340	4300	1700	0.028	0.93	0.36	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17.11.2021	SW 74	ZO Lab LDH	7.3	BDL	12	496	58,00,000	23,00,000	0.039	1.49	0.54	E	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	22.11.2021	SW 81	ZO Lab LDH	7.5	5.0	5.8	414	7,90,000	2,20,000	0.044	1.05	0.24	D	U
6	River Satluj at D/s East Bein	1381	22.11.2021	SW 82	ZO Lab LDH	7.6	3.6	6.6	590	8,40,000	4,60,000	0.075	1.74	0.52	E	U
7	River Satluj at Harike	1022	22.11.2021	SW 83	ZO Lab LDH	7.6	6.4	2.4	335	3300	1100	0.025	0.82	0.44	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	15.11.2021	SW 69	ZO Lab Ldh	BDL	14	10	163	142	11	18	124	30.4	11.7	115	BDL	BDL	1.4	BDL	BDL	0.22	7.7	2.9
2	River Satluj D/S of Rishab- Paper Mills	1293	15.11.2021	SW 70	ZO Lab Ldh	BDL	16	12	182	163	18	28	120	29.6	11.2	112	BDL	BDL	1.6	BDL	BDL	0.23	11.5	4.6
3	River Satluj U/S Buddha Nallah	1690	17.11.2021	SW 72	ZO Lab Ldh	7	65	78	208	174	11	32	140	33.6	13.6	105	BDL	0.8	2.1	1.6	0.32	0.25	25.2	3.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	17.11.2021	SW 74	ZO Lab LDH	56	95	152	304	238	49	42	150	36	14.6	160	BDL	3.9	2.4	6.2	2.60	0.27	41.9	10.2
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	22.11.2021	SW 81	ZO Lab LDH	34	75	110	256	206	38	36	142	34.4	13.6	133	BDL	2.2	2.0	3.6	1.42	0.21	28.8	5.6
6	River Satluj at D/s East Bein	1381	22.11.2021	SW 82	ZO Lab LDH	40	85	142	360	282	41	45	148	35.2	14.6	188	BDL	3.0	2.4	4.2	1.83	0.24	48.6	15.3
7	River Satluj at Harike	1022	22.11.2021	SW 83	ZO Lab LDH	21	60	84	211	181	22	25	128	32	11.7	137	BDL	1.0	2.0	1.7	0.36	0.21	21.3	5.6

- 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 November, 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	2/11/21	5336	H/o Lab Patiala	7.7	6.1	9	447	17000	2100	0.22	1.88	0.36	D	U
2	Ghaggar at Bhankarpur	1295	2/11/21	5337	H/o Lab Patiala	7.9	3.4	13	520	21000	2600	0.31	1.74	0.57	E	U
3	Ghaggar at Chattbir	1698	2/11/21	5338	H/o Lab Patiala	7.7	3.1	16	593	28000	3800	0.28	1.71	0.54	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	2/11/21	5339	H/o Lab Patiala	7.5	4.1	11	483	22000	2700	0.14	1.64	0.44	D	U
5	Ghaggar at D/s Jharmal Nadi	1701	2/11/21	5340	H/o Lab Patiala	7.7	3.4	14	625	28000	4000	0.31	1.69	0.61	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	2/11/21	5342	H/o Lab Patiala	7.6	2.9	10	493	22000	2700	0.21	1.55	0.51	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	2/11/21	5343	H/o Lab Patiala	7.7	2.6	14	588	28000	3900	0.33	1.87	0.67	E	U
8	Ghaggar at Rattanheri	1473	9/11/21	5365	H/o Lab Patiala	7.6	3.4	14	595	28000	3900	0.36	1.96	0.81	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/11/21	5366	H/o Lab Patiala	7.7	3.6	13	581	28000	3800	0.42	1.93	0.75	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/11/21	5367	H/o Lab Patiala	7.8	3.4	15	624	35000	4700	0.46	2.01	0.83	E	U
11	Ghaggar at Khanauri	1024	9/11/21	5370	H/o Lab Patiala	7.8	3.7	12	538	28000	3800	0.49	1.90	0.71	E	U
12	Ghaggar at Moonak	1703	9/11/21	5372	H/o Lab Patiala	7.9	3.3	16	643	35000	5800	0.66	2.04	0.77	E	U
13	Ghaggar at U/s Sardulgarh	1705	10/11/21	5373	H/o Lab Patiala	7.7	6.5	8	412	17000	2600	0.24	1.76	1.50	D	U
14	Ghaggar at D/s Sardulgarh	1704	10/11/21	5374	H/o Lab Patiala	7.6	6.0	11	453	21000	2700	0.21	1.69	1.26	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	2/11/21	5336	H/o Lab Patiala	43	410	393	291	248	26	12	118	29	11	198	BDL	7.4	1.0	10.4	1.3	1.1	47	15
2	Ghaggar at Bhankarpur	1295	2/11/21	5337	H/o Lab Patiala	66	375	381	338	290	42	14	156	41	13	204	BDL	8.8	1.2	12.3	1.3	1.1	50	21
3	Ghaggar at Chattbir	1698	2/11/21	5338	H/o Lab Patiala	78	290	306	386	329	53	17	210	51	20	218	BDL	9.4	1.3	13.2	1.5	1.3	57	24
4	Ghaggar at U/s Jharmal Nadi	1702	2/11/21	5339	H/o Lab Patiala	57	280	243	314	267	33	13	142	37	12	200	BDL	9.1	1.1	12.7	1.3	1.1	45	23
5	Ghaggar at D/s Jharmal Nadi	1701	2/11/21	5340	H/o Lab Patiala	72	295	301	405	345	51	17	231	58	21	229	BDL	10.3	1.2	14.4	1.6	1.1	59	29
6	Ghaggar at U/s Dhakanshu Nallah	1699	2/11/21	5342	H/o Lab Patiala	49	190	219	321	274	38	10	153	43	11	205	BDL	10.6	1.0	14.8	1.4	1.1	44	19
7	Ghaggar at D/s Dhakanshu Nallah	1700	2/11/21	5343	H/o Lab Patiala	66	210	273	382	325	49	17	195	50	17	217	BDL	11.1	1.1	15.5	1.4	1.0	60	26
8	Ghaggar at Rattanheri	1473	9/11/21	5365	H/o Lab Patiala	67	170	202	387	329	48	14	196	47	19	224	BDL	14.2	1.1	19.9	1.3	1.1	63	29
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	9/11/21	5366	H/o Lab Patiala	64	160	193	377	321	45	13	189	46	18	221	BDL	14.0	1.1	19.6	1.2	1.1	61	27
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	9/11/21	5367	H/o Lab Patiala	71	160	199	406	345	49	14	211	50	21	231	BDL	13.2	1.1	18.5	1.2	1.2	67	31
11	Ghaggar at Khanauri	1024	9/11/21	5370	H/o Lab Patiala	60	170	196	349	297	39	13	153	38	14	218	BDL	13.9	1.0	19.5	1.2	1.1	54	27
12	Ghaggar at Moonak	1703	9/11/21	5372	H/o Lab Patiala	74	185	207	417	354	48	21	205	49	20	239	BDL	14.6	1.2	20.4	1.3	1.2	67	35
13	Ghaggar at U/s Sardulgarh	1705	10/11/21	5373	H/o Lab Patiala	41	40	56	269	229	26	9	93	24	8	193	BDL	7.9	1.1	11.1	1.3	1.1	39	16
14	Ghaggar at D/s Sardulgarh	1704	10/11/21	5374	H/o Lab Patiala	53	45	59	295	252	28	11	123	31	11	201	BDL	8.3	1.1	11.6	1.3	1.1	43	18

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