

**Quality of Water of Polluted River stretches in Punjab for the month of July, 2020**  
**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	Water Quality Index
1	Ropar Head-Works	1019	10.07.20	SW 1434	ZO Lab Ldh	7.6	6.4	<1	280	580	210	BDL	0.16	0.11	C	S
2	River Satluj D/S of Rishab- Paper Mills	1293	10.07.20	SW 1435	ZO Lab Ldh	7.6	6.5	<1	258	630	170	BDL	0.09	0.24	C	S
3	River Satluj U/S Buddha Nallah	1690	14.07.20	SW 1437	ZO Lab Ldh	8.0	6.4	<1	286	700	210	BDL	0.11	0.16	C	S
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.07.20	SW 1439	ZO Lab Ldh	7.6	4.1	8.2	395	2,70,000	1,70,000	0.150	0.37	0.29	D	U
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.07.20	SW 1441	ZO Lab Ldh	7.9	4.7	2.4	377	94,000	32,000	0.045	0.24	0.16	D	U
6	River Satluj at D/s East Bein	1381	15.07.20	SW 1442	ZO Lab Ldh	7.8	4	2.9	346	1,10,000	46,000	0.049	0.18	0.24	D	U
7	River Satluj at Harike	1022	09.07.20	SW 1430	ZO Lab Ldh	7.2	6.2	1.6	332	4300	2100	0.012	0.25	0.19	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 <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	10.07.20	SW 1434	ZO Lab Ldh	<5	28	18	173	150	17	22	124	25.6	14.6	78	BDL	BDL	1.4	BDL	BDL	0.21	4.0	1.6
2	River Satluj D/S of Rishab- Paper Mills	1293	10.07.20	SW 1435	ZO Lab Ldh	<5	23	15	155	142	10	21	126	26.4	14.6	88	BDL	BDL	1.2	BDL	BDL	0.19	2.4	1.3
3	River Satluj U/S Buddha Nallah	1690	14.07.20	SW 1437	ZO Lab Ldh	<5	164	104	168	142	15	23	122	27.2	13.1	92	BDL	BDL	1.5	BDL	BDL	0.26	2.8	1.7
4	River Satluj at 100 mts D/s after Budha Nallah confluence, Ludhiana	1020	14.07.20	SW 1439	ZO Lab Ldh	28	160	92	234	183	24	28	134	28.8	15.1	114	BDL	6.0	1.4	9.8	0.3	0.30	9.9	3.6
5	River Satluj at Boat Bridge, Dharamkot Nakodar Road	1021	15.07.20	SW 1441	ZO Lab Ldh	10	170	81	221	172	26	24	126	27.2	14.1	100	BDL	1.0	1.2	1.8	0.10	0.29	6.1	2.6
6	River Satluj at D/s East Bein	1381	15.07.20	SW 1442	ZO Lab Ldh	11	180	85	194	151	13	21	126	25.6	15.1	102	BDL	1.4	1.3	2.2	0.24	0.21	4.7	2.5
7	River Satluj at Harike	1022	09.07.20	SW 1430	ZO Lab Ldh	6	140	69	193	163	19	21	132	27.2	15.6	98	BDL	1.2	1.2	1.8	0.16	0.20	6.6	2.6

- 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 July, 2020

### 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	Water Quality Index
1	Ghaggar at Mubarikpur Rest House	1023	3/7/2020	SW 2555	H/o Lab Patiala	8.0	5.8	10	616	21000	3100	0.72	1.81	0.51	D	U
2	Ghaggar at Bhankarpur	1295	3/7/2020	SW 2556	H/o Lab Patiala	7.6	2.7	31	960	28000	3900	0.39	2.11	0.58	E	U
3	Ghaggar at Chattbir	1698	3/7/2020	SW 2557	H/o Lab Patiala	7.4	2.4	19	873	28000	3800	0.22	2.05	0.60	E	U
4	Ghaggar at U/s Jharmal Nadi	1702	3/7/2020	SW 2558	H/o Lab Patiala	7.5	3.3	17	813	28000	3800	0.28	2.09	0.50	E	U
5	Ghaggar at D/s Jharmal Nadi	1701	3/7/2020	SW 2559	H/o Lab Patiala	7.5	3.1	22	1132	35000	4700	0.29	3.02	0.58	E	U
6	Ghaggar at U/s Dhakanshu Nallah	1699	3/7/2020	SW 2561	H/o Lab Patiala	7.7	3.4	14	855	22000	3400	0.41	3.28	0.85	E	U
7	Ghaggar at D/s Dhakanshu Nallah	1700	3/7/2020	SW 2562	H/o Lab Patiala	7.5	3.0	15	888	28000	4000	0.28	3.39	0.99	E	U
8	Ghaggar at Rattanheri	1473	7/7/2020	SW 2568	H/o Lab Patiala	7.7	2.9	14	797	24000	3400	0.46	2.13	0.82	E	U
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7/7/2020	SW 2569	H/o Lab Patiala	7.6	3.0	16	827	24000	3400	0.39	2.18	0.87	E	U
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7/7/2020	SW 2570	H/o Lab Patiala	7.7	2.8	20	911	28000	4000	0.45	2.43	0.90	E	U
11	Ghaggar at Khanauri	1024	7/7/2020	SW2573	H/o Lab Patiala	7.7	3.2	15	747	28000	3300	0.42	2.15	0.81	E	U
12	Ghaggar at Moonak	1703	7/7/2020	SW 2575	H/o Lab Patiala	7.6	3.0	16	823	28000	3900	0.35	2.22	0.84	E	U
13	Ghaggar at U/s Sardulgarh	1705	10/7/2020	SW 2576	H/o Lab Patiala	7.9	4.4	11	633	21000	2100	0.56	1.51	0.72	D	U
14	Ghaggar at D/s Sardulgarh	1704	10/7/2020	SW 2577	H/o Lab Patiala	7.8	4.0	12	715	22000	2600	0.44	1.78	0.75	D	U

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1	Ghaggar at Mubarikpur Rest House	1023	3/7/2020	SW 2555	H/o Lab Patiala	52	790	412	370	315	45	19	163	42	14	235	BDL	14.3	1.5	20.0	0.81	1.3	53	24
2	Ghaggar at Bhankarpur	1295	3/7/2020	SW 2556	H/o Lab Patiala	156	600	329	576	490	89	35	351	86	33	279	BDL	15.6	1.6	21.8	2.7	1.4	91	41
3	Ghaggar at Chattbir	1698	3/7/2020	SW 2557	H/o Lab Patiala	96	200	147	524	445	80	29	311	75	30	264	BDL	14.4	1.3	20.2	1.6	1.0	83	35
4	Ghaggar at U/s Jharmal Nadi	1702	3/7/2020	SW 2558	H/o Lab Patiala	84	60	75	488	415	78	30	270	62	28	247	BDL	13.9	1.0	19.5	1.4	0.9	79	30
5	Ghaggar at D/s Jharmal Nadi	1701	3/7/2020	SW 2559	H/o Lab Patiala	112	65	82	679	577	102	39	396	86	44	313	BDL	14.6	1.5	20.4	2.0	1.3	138	47
6	Ghaggar at U/s Dhakanshu Nallah	1699	3/7/2020	SW 2561	H/o Lab Patiala	68	35	58	513	436	70	24	229	57	21	259	BDL	13.7	1.3	19.2	1.5	1.0	114	39
7	Ghaggar at D/s Dhakanshu Nallah	1700	3/7/2020	SW 2562	H/o Lab Patiala	76	40	73	533	453	80	30	287	67	29	286	BDL	14.1	1.5	19.7	1.6	1.3	132	69
8	Ghaggar at Rattanheri	1473	7/7/2020	SW 2568	H/o Lab Patiala	72	470	321	478	406	71	24	243	59	23	263	BDL	15.2	1.1	21.3	2.6	0.9	76	34
9	Ghaggar before mixing with Sagar Para drain (U/s sagar para Drain)	4159	7/7/2020	SW 2569	H/o Lab Patiala	80	490	334	496	422	73	26	249	60	24	270	BDL	15.4	1.2	21.6	2.7	0.9	79	38
10	Ghaggar after mixing with Sagar Para drain (D/s Sagar Para Drain)	4160	7/7/2020	SW 2570	H/o Lab Patiala	100	510	327	547	465	82	29	285	71	26	281	BDL	14.9	1.4	20.9	3.0	0.9	94	42
11	Ghaggar at Khanauri	1024	7/7/2020	SW2573	H/o Lab Patiala	68	560	384	448	381	57	20	242	54	26	257	BDL	13.9	0.9	19.5	1.9	1.0	77	27
12	Ghaggar at Moonak	1703	7/7/2020	SW 2575	H/o Lab Patiala	76	600	393	494	420	68	27	272	61	29	269	BDL	14.0	1.0	19.6	2.0	1.0	84	30
13	Ghaggar at U/s Sardulgarh	1705	10/7/2020	SW 2576	H/o Lab Patiala	52	130	119	380	323	51	19	169	41	16	249	BDL	12.4	0.7	17.4	1.0	0.9	45	26
14	Ghaggar at D/s Sardulgarh	1704	10/7/2020	SW 2577	H/o Lab Patiala	61	170	134	429	365	60	24	209	49	21	256	BDL	12.7	0.9	17.8	1.1	1.0	59	30

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