

**WATER QUALITY OF MAJOR RIVERS IN HIMACHAL PARDESH MONITORED UNDER MINARS
AND STATE WATER QUALITY MONITORING PROGRAMME**

DURING 2015-16

Results of Major Rivers (MINARS) Points from April 2015 to March 2016:

Name of location	Parameters	Apr-15	May-15	Jun-15	Jul-15	Aug-15	Sep-15	Oct-15	Nov-15	Dec-15	Jan-16	Feb-16	Mar-16
River Pabbar U/s Dhambari	pH	7.16	7.93	7.06	7.96	7.60	7.83	7.76	7.26	7.08	7.22	8.35	8.68
	D.O. mg/l	8.9	9.0	9.0	9.5	8.7	8.8	8.5	8.6	--	8.7	8.6	8.4
	BOD mg/l	0.1	0.1	0.4	0.4	1.0	0.5	0.2	0.2	0.4	0.1	0.1	0.4
	TC	8	18	14	16	2	16	<1.8	<1.8	<1.8	39	10	2.0
River Pabbar U/s Rohru	pH	7.96	7.24	7.11	8.35	7.36	7.65	7.39	7.35	7.20	7.21	7.65	8.50
	D.O. mg/l	9.5	8.8	8.8	9.4	8.9	8.7	8.3	8.5	--	8.5	8.0	8.5
	BOD mg/l	0.2	0.1	0.1	0.1	1.0	0.2	0.7	0.1	1.0	0.1	0.2	0.4
	TC	10	24	10	12	2	21	<1.8	<1.8	<1.8	10	14	6.1
River Pabbar at Snail D/s of TRT of Swara Kuddu	pH	7.54	7.02	7.69	7.22	7.39	7.45	7.41	7.54	7.17	7.13	8.09	8.37
	D.O. mg/l	9.5	8.5	9.9	8.5	9.4	8.8	8.4	8.3	--	8.8	8.9	9.1
	BOD mg/l	0.1	0.2	0.3	5.0	0.9	2.0	0.7	0.1	0.2	0.2	0.1	0.2
	TC	12	22	12	8	Nil	10	<1.8	<1.8	<1.8	9.3	17	8.2
River Tons at H.P. Boundary	pH	7.49	7.08	7.41	7.93	7.26	7.44	7.14	7.37	7.23	7.21	8.17	8.21
	D.O. mg/l	9.6	8.7	9.5	8.8	9.2	8.5	8.5	8.4	--	9.0	9.1	9.2
	BOD mg/l	0.2	0.2	0.4	2.0	1.0	0.4	0.8	1.0	0.1	0.2	0.1	0.2
	TC	22	12	12	16	5	18	<1.8	2	2	24	3.7	4
Ashwani khad U/s Yashwant Nagar	pH	7.54	7.27	7.81	7.73	7.44	7.67	7.95	--	7.24	7.30	8.56	8.91
	D.O. mg/l	8.0	9.0	7.2	8.2	7.0	8.1	8.0	--	7.9	7.8	8.7	8.2
	BOD mg/l	0.2	0.1	0.8	1.0	12.0	0.6	0.4	--	1.2	0.4	1.2	0.8
	TC	12	8	12	32	8	28	<1.8	--	<1.8	13	17	10
Giri river D/s Yashwant Nagar	pH	7.64	8.25	7.8	7.79	7.73	7.55	7.86	--	7.70	7.63	8.30	8.69
	D.O. mg/l	8.6	8.2	7.5	8.9	7.3	8.4	8.3	--	8.2	8.1	9.2	8.6
	BOD mg/l	0.1	0.3	1.1	4	8.0	0.4	1	--	0.8	0.4	0.8	1.0
	TC	22	12	6	8	12	36	<1.8	--	2	5.5	13	9.1
	pH	8.17	8.82	7.72	8.36	7.84	7.60	7.53	--	6.97	7.33	8.16	7.95

River Sukhna at Parwano	D.O. mg/l	1.9	3.1	2.4	7.4	6.2	5.9	4.9	--	5.5	2.5	3.2	3.0
	BOD mg/l	18	22.0	4.0	2.0	12.0	10.0	1.5	--	2.8	54.0	8.0	14.0
	TC	280	310	460	540	240	344	50	--	120	>1600	540	540
Lift Nala D/s MSW Processing Site, Shimla	pH	7.36	6.79	7.88	8.05	7.83	7.62	7.94	6.90	7.26	7.07	8.15	7.55
	D.O. mg/l	4.8	4.5	3.1	4.3	4.4	4.5	5.1	4.1	--	6.8	5.5	4.6
	BOD mg/l	10.0	16.0	7.6	4.0	8.0	8.0	3.2	3.2	3.0	4.5	4.0	6.0
	TC	38	120	124	62	68	168	14	22	22	150	110	48
River Sirsa U/s Sitomajri Nallah	pH	7.31	7.08	7.21	7.32	7.96	7.32	7.74	7.39	6.97	6.95	8.25	8.37
	D.O. mg/l	7.7	8.1	7.2	5.6	5.0	5.6	8.1	7.1	5.8	6.9	8.7	9.2
	BOD mg/l	2.2	1.8	1.6	18.0	10.0	18.0	1.0	0.8	1.6	0.8	1.2	0.8
	TC	28	48	_	170	130	170	26	17	17	20	12	8.1
River Sirsa D/s Nalagarh Bridge	pH	7.37	7.34	7.69	7.93	7.95	7.93	7.98	7.68	7.99	7.60	8.82	7.62
	D.O. mg/l	8.2	4.7	6.2	4.5	4.9	4.5	6.4	5.9	4.7	5.2	4.8	8.3
	BOD mg/l	2.0	2.2	1.8	10.0	10.0	10.0	2.0	1.4	1.2	0.3	4.0	1.2
	TC	62	32	_	220	140	220	60	50	50	170	26	25
River Sirsa D/s Nalagarh Town	pH	7.20	6.90	7.06	7.82	7.92	7.82	8.30	7.56	7.16	7.77	8.55	7.89
	D.O. mg/l	8.8	5.3	5.8	5.1	5.2	5.1	6.1	6.5	5.2	4.9	5.0	8.7
	BOD mg/l	2.4	1.8	3.6	12.0	12.0	12.0	1.0	1.0	1.0	0.6	6.0	2.0
	TC	65	24	_	350	280	350	50	60	60	58	48	40
IPH Water Intake point below MSW dump site at Salogra	pH	8.01	7.74	7.78	7.49	7.80	7.54	7.84	--	7.03	7.51	8.25	8.72
	D.O. mg/l	7.5	7.8	6.8	8.3	7.9	7.8	8.1	--	7.5	8.9	8.1	8.3
	BOD mg/l	0.8	0.1	1.6	0.9	2.0	0.2	1.2	--	1.0	0.1	0.1	1.2
	TC	4	5	20	4	12	48	<1.8	--	<1.8	<1.8	1.8	1.8
River Yamuna U/s Paonta Sahib	pH	8.22	8.32	7.94	7.67	7.54	7.19	7.47	8.09	B	8.6	8.35	7.93
	DO	8.1	7.9	7.0	6.2	7.0	8.8	8.3	8.3	8.1	8.4	7.9	8.0
	BOD	1.0	0.8	1.2	1.2	2.4	1.2	1.2	1.0	1.2	1.2	1.2	1.0
	TC	26.0	21.0	18.0	20.0	18.0	22.0	18.0	16.0	14.0	17.0	15.0	20.0
River Yamuna D/s Paonta Sahib	pH	8.25	8.34	7.58	7.81	7.65	7.63	7.62	8.27	7.52	8.57	8.49	8.08
	DO	7.6	7.7	6.8	5.8	6.8	8.6	7.9	8.0	7.9	8.2	7.8	7.8
	BOD	1.2	1.2	1.6	1.4	1.6	1.4	1.6	1.2	1.6	1.6	1.4	1.6

	TC	25.0	22.0	21.0	22.0	20.0	18.0	20.0	18.0	16.0	21.0	21.0	24.0
River Bata U/s Kala Amb	pH	8.27	8.25	7.37	7.52	7.77	7.71	7.80	8.30	7.30	8.35	8.32	8.00
	DO	7.8	7.8	6.8	6.8	7.8	8.9	8.6	8.4	8.2	8.8	9.0	8.6
	BOD	1.2	1.0	1.4	1.2	1.0	1.4	1.2	0.8	1.2	0.8	0.8	1.2
	TC	16.0	26.0	26.0	22.0	16.0	19.0	16.0	18.0	18.0	21.0	21.0	24.0
River Bata at D/s of Kala Amb	pH	7.92	7.01	7.31	7.68	7.63	7.34	7.82	8.42	7.64	8.46	8.48	8.23
	DO	7.7	7.6	6.6	6.1	7.6	8.7	8.4	8.2	8.0	8.6	8.9	8.3
	BOD	1.4	1.4	1.6	1.6	1.2	1.6	1.4	1.0	1.6	1.2	1.0	1.6
	TC	20.0	28.0	30.0	24.0	14.0	20.0	13.0	20.0	20.0	17.0	24.0	27.0
River markand at Paonta Sahib	pH	8.20	7.89	7.69	7.99	7.82	7.14	7.42	8.12	7.45	8.46	8.39	8.06
	DO	7.4	7.7	7.0	5.8	8.0	8.4	7.9	8.2	8.2	8.2	7.5	7.7
	BOD	1.2	1.2	1.2	1.4	1.2	1.4	1.6	1.0	1.2	1.4	1.6	1.6
	TC	20.0	22.0	20.0	24.0	14.0	20.0	16.0	20.0	20.0	34.0	24.0	32.0
River Markand a U/s Kala Amb	pH	8.22	8.07	7.94	7.76	7.72	8.12	7.44	7.39	7.58	8.44	8.32	8.14
	DO	6.8	7.8	7.5	6.4	8.2	8.0	7.6	8.0	8.0	8.4	8.4	7.9
	BOD	1.6	1.2	1.2	1.0	1.0	1.6	1.8	1.2	1.6	1.2	1.2	1.2
	TC	24.0	26.0	22.0	20.0	20.0	18.0	20.0	20.0	18.0	26.0	25.0	34.0
River Markand a D/s Kala amb	pH	8.27	8.30	7.93	7.68	7.74	7.37	7.87	8.20	7.69	8.46	8.44	8.09
	DO	6.6	7.5	7.3	6.3	8.8	7.8	7.5	7.9	7.8	8.4	8.2	7.5
	BOD	1.8	1.6	1.6	1.2	1.2	1.8	2.0	1.6	1.8	1.6	1.6	1.6
	TC	31.0	28.0	28.0	24.0	16.0	20.0	20.0	26.0	28.0	26.0	31.0	38.0
River Giri U/s of CCI Mines	pH	8.17	7.98	7.72	7.63	7.86	7.25	7.59	8.47	7.89	8.41	8.39	7.88
	DO	7.6	8.0	6.9	6.6	8.1	8.6	8.3	8.5	8.4	8.5	8.5	8.4
	BOD	1.4	1.2	1.4	0.8	0.8	1.2	1.2	0.8	1.2	1.2	1.2	1.2
	TC	15.0	19.0	24.0	16.0	16.0	20.0	18.0	18.0	16.0	26.0	10.0	31.0
River Giri D/s of Sataun	pH	7.86	8.15	7.18	7.89	7.95	7.46	7.66	8.3	7.96	8.43	8.33	8.06
	DO	7.4	5.8	6.8	6.5	8.0	8.3	8.0	8.3	8.2	8.2	8.2	8.1
	BOD	1.6	2.0	1.6	1.0	1.0	1.4	1.6	1.2	1.4	1.6	1.6	1.6
	TC	16.0	38.0	28.0	18.0	18.0	22.0	18.0	20.0	18.0	27.0	12.0	32.0
	pH	8.18	8.15	8.00	7.97	7.29	8.14	7.81	7.11	7.92	8.34	8.34	7.96

Renuka Lake	DO	6.4	5.8	5.2	5.6	7.0	6.9	6.2	4.0	4.4	5.9	6.2	6.4
	BOD	1.4	2.0	2.2	2.0	1.6	1.8	2.0	3.6	3.2	2.4	2.2	2.2
	TC	26.0	38.0	36.0	22.0	20.0	38.0	24.0	45.0	20.0	43.0	49.0	48.0
U/S Slapper, River Satluj	pH	7.65	7.60	7.46	7.81	7.71	8.14	8.06	7.85	7.80	7.75	8.65	7.44
	DO	9.1	8.5	8.9	8.7	6.0	8.0	9.0	--	--	9.1	8.8	9.7
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	140	280	240	240	210	280	170	280	170	94	110	150
D/S Slapper, Satluj River after Conf. with River Beas	pH	7.98	7.76	7.50	7.89	7.53	7.85	7.88	7.88	7.69	7.69	8.48	7.68
	DO	9.3	8.6	8.9	9.0	8.0	8.7	9.0	--	--	8.7	8.9	9.5
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	220	350	350	350	220	350	350	350	350	430	170	210
Exit of Dehar Power House, Beas River	pH	7.76	7.84	7.46	7.37	7.69	7.98	7.87	7.86	7.76	7.83	8.35	7.59
	DO	8.3	9.2	9.1	8.9	8.0	8.0	9.2	--	--	8.9	9.0	8.6
	BOD	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	94	180	280	220	240	210	280	240	350	210	170	170
D/s Bilaspur at Govindsagar	pH	8.04	7.81	7.44	7.91	7.66	8.45	7.95	7.95	7.54	7.57	8.70	7.75
	DO	8.9	8.8	8.7	8.9	7.9	8.2	8.9	--	--	9.1	8.7	9.3
	BOD	0.3	0.2	0.3	0.4	0.3	0.2	0.3	0.3	0.2	0.3	0.1	0.2
	TC	280	540	540	920	430	540	540	350	920	540	430	350
U/s Mandi, Beas River)	pH	7.54	7.09	7.04	7.52	7.23	7.57	7.51	7.77	8.03	8.06	7.68	7.77
	DO	7.1	9.7	8.6	9.2	9.0	8.4	9.7	8.1	10.0	8.7	11.5	9.3
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	280	49	920	350	540	1600	220	170	210	110	120	140
D/s Mandi, Beas River	pH	7.46	7.30	7.07	8.00	7.26	7.74	7.72	8.07	7.92	7.88	7.54	7.63
	DO	7.7	9.3	8.8	8.6	8.8	10.5	10.3	8.3	13.0	11.5	11.6	9.2
	BOD	0.1	0.3	0.1	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1
	TC	540	350	280	>1600	1600	>1600	540	≥1600	>1600	280	350	430
Rewalsar Lake	pH	7.40	7.07	6.84	7.42	7.20	7.07	7.36	7.35	7.56	7.82	7.20	7.82
	DO	2.0	1.7	2.0	1.2	3.5	108	4.5	5.4	6.3	2.1	4.9	2.0
	BOD	1.2	2.8	2.2	2.7	4.8	2.4	0.5	0.2	2.0	5.5	7.0	6.0

	TC	920	280	≥2400	430	33	>1600	1600	140	920	1600	1600	1600
D/s Mandi, Suketi Khudd (2607)	pH	8.35	7.48	7.55	7.63	7.50	7.74	7.75	7.88	7.99	8.06	7.88	7.98
	DO	9.1	9.8	9.3	6.2	8.0	8.8	8.5	7.1	11.3	11.7	10.5	9.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2
	TC	350	240	≥2400	430	920	>1600	1600	≥1600	>1600	920	540	350
R.Beas, U/s Pandoh Dam	pH	7.39	7.18	7.00	7.45	7.30	7.59	7.25	8.01	8.02	7.78	7.56	7.62
	DO	9.3	9.7	9.8	9.8	9.4	9.6	9.1	8.2	10.7	10.2	10.7	9.4
	BOD	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	240	170	≥2400	210	920	1600	280	540	>1600	280	240	170
R.Beas, D/s Pandoh Dam	pH	7.70	7.22	7.09	7.39	7.20	7.60	7.23	7.81	7.76	7.91	7.36	7.64
	DO	8.6	9.2	10.3	8.3	9.0	8.9	9.9	7.9	10.9	12.8	10.1	9.8
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	280	180	280	430	13	>1600	430	920	540	350	280	240
R.Beas, D/s Aut	pH	7.52	7.03	7.53	7.36	7.33	7.30	7.36	7.74	7.58	7.68	8.04	7.42
	DO	9.2	10.8	10.5	9.5	8.8	8.6	9.6	9.0	8.8	9.4	9.0	9.0
	BOD	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	170	140	220	170	150	280	150	240	280	170	120	170
R.Sainj, D/s Largi	pH	7.72	7.0	7.49	7.19	7.29	7.29	7.78	7.75	7.55	7.65	4.24	7.10
	DO	9.7	11	11.0	9.7	8.9	8.8	9.7	8.9	9.0	9.6	8.7	8.7
	BOD	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	180	180	280	220	210	170	140	170	240	130	140	220
River Parvati, U/s Manikaran	pH	7.86	7.52	7.41	7.06	8.03	7.34	6.73	8.19	7.89	7.08	8.37	7.26
	DO	11.2	11.5	9.5	9.5	9.5	9.3	9.5	9.3	10.3	8.9	9.4	10.5
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	110	79	63	21	70	84	84	33	47	63	79	84
River Parvati, D/s Manikaran	pH	7.70	7.47	7.11	7.27	7.68	7.16	6.90	7.86	7.76	7.18	8.18	7.32
	DO	11.1	11.4	9.4	9.4	9.4	9.2	9.4	9.2	10.2	8.8	9.3	10.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	140	140	94	79	110	130	130	70	58	84	130	140
	pH	7.52	7.78	7.49	7.68	7.64	7.38	8.35	7.54	7.56	7.44	8.16	7.46

River Beas, U/s Manali	DO	10.3	10.3	10.2	9.9	9.9	9.2	9.8	9.6	9.9	9.8	9.9	9.8
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	79	170	110	34	120	140	79	31	39	47	46	79
River Beas, D/s Manali	pH	7.72	7.35	7.23	7.74	7.40	7.61	8.04	7.59	7.48	7.49	7.94	7.13
	DO	10.2	9.0	9.9	9.9	9.6	8.9	9.8	9.5	9.8	9.8	9.8	9.7
	BOD	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1
	TC	180	350	350	220	350	430	220	70	84	94	84	120
River Beas, U/s Kullu	pH	8.14	7.21	7.36	7.36	7.25	7.38	7.68	7.59	7.86	7.22	7.78	7.79
	DO	9.4	11.2	9.8	8.9	9.1	9.2	9.3	9.3	10.2	8.9	9.6	9.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	240	280	280	170	170	350	280	180	170	150	140	220
River Beas, D/s Kullu	pH	7.40	7.11	7.48	7.35	7.26	7.28	7.67	7.71	7.72	7.24	8.17	7.78
	DO	9.3	11.2	9.6	8.8	9.0	8.9	9.2	9.0	10.2	8.8	9.3	9.3
	BOD	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.2	0.1	0.1
	TC	540	540	350	280	350	540	430	280	210	170	350	350
Parvati River, before confluence to R. Beas at Bhunter	pH	7.77	7.18	7.08	7.20	7.44	7.05	7.65	7.86	7.65	7.09	8.38	7.34
	DO	11.1	11	9.2	9.1	8.9	8.9	9.2	8.9	9.0	8.5	9.2	9.2
	BOD	0.2	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	280	240	240	240	240	430	170	130	140	120	220	170
River Satluj U/s Tattapani	pH	7.60	7.76	7.29	7.79	7.71	7.79	7.76	7.96	7.08	6.74	8.51	8.11
	DO	9.1	9.2	9.0	9.1	9.1	9.8	9.2	9.3	9.2	8.8	9.1	8.8
	BOD	0.2	0.2	0.1	0.2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Satluj U/s Rampur	pH	7.68	7.80	7.30	7.84	7.81	7.74	7.91	7.89	7.22	7.36	7.52	7.36
	DO	9.2	9.4	9.3	9.2	9.2	9.3	9.4	9.5	9.6	9.0	9.1	9.2
	BOD	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Satluj D/s Rampur	pH	7.69	7.78	7.35	7.91	7.79	7.70	7.95	7.91	7.35	7.87	7.59	7.58
	DO	9.2	9.3	9.1	9.2	9.2	9.2	9.2	9.4	9.6	9.1	9.3	9.0
	BOD	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.1	0.2	0.2	0.2

	TC	--	--	--	--	--	--	--	--	--	--	--	--
Wangtu Bridge (Satluj at Nathpa Jhakri)	pH	7.64	7.79	7.29	7.66	7.57	7.67	7.77	7.87	7.43	8.00	8.13	7.71
	DO	9.6	9.6	9.4	9.6	9.4	9.5	9.7	9.6	9.7	9.5	9.6	9.4
	BOD	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.2	0.2	0.1	0.2	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Baspa U/s reservoir at Kuppa	pH	7.58	8.13	7.33	7.87	8.40	7.70	7.71	7.87	7.54	8.02	7.93	7.38
	DO	9.5	9.6	9.4	9.5	9.5	9.6	9.7	9.7	9.8	9.7	9.6	9.6
	BOD	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Satluj before conf. with River Spiti at Khab	pH	7.61	7.75	7.32	7.83	7.90	7.41	7.64	8.06	7.76	7.96	8.01	7.69
	DO	10.0	9.9	9.7	9.8	9.7	9.7	9.9	10.0	10.0	10.1	10.0	9.8
	BOD	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Spiti before conf. with River Satluj at Khab	pH	7.59	7.83	7.35	7.83	7.88	7.68	7.38	8.14	6.59	7.96	8.07	7.79
	DO	9.9	10.0	9.6	9.6	9.8	9.8	9.8	9.9	9.8	9.7	9.7	9.6
	BOD	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Satluj after conf. with River Spiti at Khab	pH	7.62	7.77	7.38	7.98	7.92	7.70	7.28	8.13	7.28	7.90	8.06	8.04
	DO	10.1	9.9	9.6	9.8	9.6	9.7	9.9	10.1	10.0	10.1	9.9	9.8
	BOD	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	--	--	--	--	--	--	--	--	--	--	--	--
River Ravi D/S Chamba	pH	8.02	8.00	7.81	6.78	7.59	6.75	7.98	7.03	7.86	7.31	7.64	7.22
	DO	8.7	8.7	8.6	8.6	8.5	8.5	8.6	8.8	8.7	8.2	8.6	8.6
	BOD	0.4	0.2	0.2	0.5	1.6	0.3	0.3	0.6	0.5	0.5	0.1	0.3
	TC	--	--	--	--	--	--	--	--	80	140	210	240
River Ravi U/S Chamba	pH	7.8	8.24	7.48	6.82	8.02	7.5	8	6.77	8.04	7.32	7.58	7.12
	DO	8.7	8.8	8.7	8.7	8.6	8.6	8.8	8.7	8.8	8.6	8.7	8.7
	BOD	0.6	0.4	0.3	0.4	0.7	0.2	0.2	0.4	0.6	1.4	0.2	0.3
	TC	--	--	--	--	--	--	--	--	60	110	170	210
	pH	8.13	7.96	8.57	7.81	7.49	7.23	7.35	7.02	8.16	7.29	8.02	7.38

River Siul D/S Surgani	DO	8.8	8.7	8.6	8.5	8.7	8.7	8.6	8.7	8.6	8.7	8.8	8.7
	BOD	0.2	0.3	0.3	1.6	0.7	0.2	0.2	0.2	0.4	0.1	0.3	0.5
	TC	--	--	--	--	--	--	--	--	80	110	220	220
River Ravi at Chamera Reservoir (2614)	pH	8.1	8.35	8.29	7.39	7.51	8.08	8.04	7.08	8.14	7.18	8.23	7.29
	DO	8.6	8.6	8.4	8.7	8.5	8.5	8.8	8.8	8.7	8.6	8.7	8.6
	BOD	0.3	0.4	0.3	0.5	0.5	0.2	0.8	0.3	0.2	0.2	0.2	0.4
	TC	--	--	--	--	--	--	--	--	110	90	280	240
Madhopur Head Works River Ravi	pH	8.01	7.91	8.24	6.28	7.09	7.47	7.55	7.01	8.12	8.17	7.45	6.98
	DO	7.9	7.9	8.3	8.1	8.0	8.6	7.9	8.5	8.1	8.6	8.2	8.1
	BOD	0.7	0.5	0.5	0.5	0.4	0.8	0.7	4.0	0.4	0.2	0.5	0.4
	TC	--	--	--	--	--	--	--	--	--	240	430	350
Khajjar Lake	pH	7.17	6.75	7.78	6.6	7.36	7.05	7.76	6.46	7.84	6.72	7.96	7.19
	DO	6.6	5.8	6.2	6.3	6.1	6.3	6.6	6.1	6.3	6.1	7.0	5.8
	BOD	5.8	65.0	34.0	7.5	21.0	18.0	7.5	18.0	3.0	60.0	14.0	1.0
	TC	--	--	--	--	--	--	--	--	240	500	1600	920
Pong Dam Lake at Pong Village	pH	8.32	8.12	7.05	8.33	7.27	8.04	7.58	7.31	8.03	8.03	8.2	7.46
	DO	8.1	8.5	7.2	8.5	8.7	8.5	7.9	8.4	7.4	7.1	7.6	8.3
	BOD	0.6	0.6	0.8	0.4	1.6	0.5	0.4	1.4	0.5	0.4	3.0	0.4
	TC	--	--	--	--	--	--	--	--	--	110	--	280
D/S Pong Dam R. Beas	pH	8.32	8.42	7.16	7.96	7.44	8.04	7.2	7.36	8.1	7.82	7.51	7.35
	DO	8.2	8.6	6.9	8.7	8.9	8.6	8.1	8.5	6.9	7.3	8.3	8.6
	BOD	0.2	0.4	0.4	0.2	0.8	0.3	0.5	1.0	0.2	0.2	0.5	0.3
	TC	--	--	--	--	--	--	--	--	--	130	--	170
D/S Dehra River Beas	pH	7.37	7.97	8.27	7.71	7.62	7.34	8.39	7.44	8.16	7.61	8.12	7.68
	DO	8.4	7.4	8.8	7.9	7.9	8.2	8.6	8.0	7.3	6.8	8.5	8.2
	BOD	0.3	0.8	0.3	0.8	0.4	0.7	0.5	1.8	0.4	6.0	0.4	2.0
	TC	--	--	--	--	--	--	--	--	--	130	--	280
D/S Jaisingpur River Beas	pH	7.83	7.64	6.98	7.38	7.62	7.24	7.81	7.54	7.21	7.42	7.68	6.98
	DO	8.5	8.9	7.6	6.8	7.9	7.9	7.9	8.3	7.9	8.7	7.9	8.2
	BOD	1.0	1.2	0.8	0.9	1.0	0.6	0.7	0.6	2.0	2.0	0.5	0.5

	TC	--	--	--	--	--	--	--	--	--	170	--	280
D/S Alampur River Beas	pH	7.86	7.51	6.88	7.41	7.38	7.07	7.1	7.69	7.35	7.31	8.02	6.72
	DO	8.4	9.1	7.8	6.5	8.2	8.1	7.6	8.1	8.2	8.2	7.8	7.9
	BOD	1.0	1.2	0.8	0.5	1.4	0.6	0.9	0.7	1.6	0.5	0.5	0.5
	TC	--	--	--	--	--	--	--	--	--	140	--	220
D/S Thural Neugal Khad	pH	8.41	7.32	7.71	7.29	7.03	7.62	7.08	7.45	7.72	7.05	7.21	7.59
	DO	8.1	8.6	7.3	8.1	8.2	7.7	8.4	8.1	7.6	8.6	8.1	8.6
	BOD	0.4	0.4	1.8	0.3	0.2	0.3	0.3	0.6	0.2	0.4	0.3	0.3
	TC	--	--	--	--	--	--	--	--	--	110	--	350
D/S Binwa Baijnath Paprola	pH	7.51	7.35	7.67	7.12	7.05	7.67	7.14	7.52	8.07	7.09	7.79	6.84
	DO	8.5	8.2	8.2	8.4	9.1	8.6	7.6	7.5	7.2	8.4	7.3	8.0
	BOD	0.8	0.5	0.5	0.2	0.2	0.3	0.2	0.5	0.2	0.2	0.4	0.2
	TC	--	--	--	--	--	--	--	--	--	170	--	240
River Satluj D/s Bhakhra	pH	8.14	8.09	7.74	7.02	7.48	7.17	8.18	7.17	8.06	8.06	7.37	7.14
	DO	7.0	5.4	7.5	6.3	6.3	8.0	6.8	7.1	7.0	7.2	6.5	5.9
	BOD	0.3	0.2	0.2	0.4	0.3	0.2	0.3	0.5	0.3	0.3	0.3	0.2
	TC	--	--	--	--	--	--	33	--	130	280	540	350
River Swan D/s Santokhgarh	pH	7.99	7.69	7.42	6.78	7.88	7.38	7.68	7.26	8.27	8.31	7.5	7.38
	DO	5.5	5.2	7.8	5.8	5.8	6.0	5.6	6.5	5.6	6.5	5.0	5.6
	BOD	1.6	1.6	60.0	0.7	1.6	2.0	0.9	5.4	0.6	0.5	2.0	0.4
	TC	--	--	--	--	--	--	49	70	170	280	920	430
River Ravi D/S proposed dam of Chamera -III HEP	pH	8.08	8.03	7.78	6.99	7.44	6.44	7.26	6.96	8.07	7.43	7.79	7.27
	DO	8.6	8.6	8.7	8.5	8.6	8.6	8.7	8.9	8.8	8.6	8.8	8.8
	BOD	0.5	0.4	0.2	0.2	0.3	0.5	0.3	0.8	0.2	0.3	0.2	0.3
	TC	--	--	--	--	--	--	--	--	110	90	220	170

Name of location	Parameters	Apr-15	Oct-15
Well at Kala Amb	pH	8.03	7.58
	DO	--	--
	BOD	0.6	0.8
	TC	4.0	4.0
Well at Paonta Sahib	pH	7.85	6.96
	DO	--	--
	BOD	0.6	0.4
	TC	3.0	5
Well at Industrial Area Kala Amb	pH	7.94	7.36
	DO	--	--
	BOD	0.8	0.8
	TC	5.0	5.0
Well at Industrial Area Paonta Sahib	pH	8.06	7.7
	DO	--	--
	BOD	0.8	0.7
	TC	4.0	6.0
Hand Pump at Nahan	pH	7.70	6.76
	DO	--	--
	BOD	0.6	0.8
	TC	4.0	4.0
Hand Pump at Kala Amb	pH	7.85	7.11
	DO	--	--
	BOD	0.8	0.7
	TC	3.0	7.0

Results of State Water Quality Monitoring Points from April 2015 to March 2016:

Location	Parameter	Apr-15	Jul-15	Oct-15	Jan-16
Lift Nallah D/s Hotel Combermere, Shimla	pH	7.19	8.09	7.92	7.20
	DO	5.3	4.6	4.5	7.9
	BOD	6.0	4.0	4.0	9.6
	TC	12	110	14	350
Lift Nallah U/s Bridge at Bye Pass Road Near MC Waste Processing Site	pH	8.26	7.10	7.95	7.01
	DO	5.0	4.2	5.0	6.6
	BOD	1.8	6.0	4.8	8.2
	TC	14	82	17	120
U/s Lift Nallah before conf. to Ashwani Khad	pH	7.54	8.73	7.68	7.26
	DO	8.5	8.2	8.5	8.6
	BOD	0.3	1.0	0.4	0.2
	TC	18	28	17	22
D/s Ashwani Khad	pH	7.91	7.85	7.66	7.32
	DO	7.3	7.5	8.1	8.3
	BOD	0.1	2.0	0.8	0.1
	TC	27	24	11	48
River Pabbar D/s Chirgaon	pH	8.46	7.74	7.43	6.74
	DO	9.2	9.4	8.6	8.5
	BOD	0.1	0.3	0.1	0.2
	TC	15	9	<1.8	41
River Pabbar D/s Rohroo	pH	7.79	6.97	7.41	7.19
	DO	8.5	8.4	9.2	8.3
	BOD	0.2	1.0	0.8	0.1
	TC	13	16	4	25
River Pabbar U/s Hatkoti	pH	8.21	7.90	7.16	7.33
	DO	8.6	8.6	9.1	8.6
	BOD	0.4	3.0	0.8	0.1
	TC	11	8	<1.8	8
River Pabbar D/s Hatkoti	pH	7.76	7.76	7.39	7.35
	DO	9.3	8.5	9.1	8.4
	BOD	1.8	4.0	1.0	0.1
	TC	20	18	<1.8	15
River Pabbar U/s Chailla	pH	--	7.72	7.65	7.21
	DO	--	8.7	8.1	9.1
	BOD	--	3.0	0.6	0.1
	TC	--	14	<1.8	20
	pH	7.24	7.10	7.48	6.89

River Sirsa D/s Sitomajri Nallah	DO	6.2	5.3	6.8	5.5
	BOD	1.2	5.2	1.0	0.4
	TC	41	66	40	40
River Sirsa U/s Sandholi Nallah	pH	8.14	6.82	8.01	6.96
	DO	5.8	4.6	5.7	4.4
	BOD	12.0	10.0	1.0	1.2
Sandholi Nallah	TC	58	50	40	140
	pH	8.35	6.16	7.78	6.11
	DO	0.0	2.0	0.0	0.0
River Sirsa D/s Sandholi Nallah	BOD	450.0	16.0	18.0	460.0
	TC	512	380	350	>1600
	pH	8.43	7.06	7.85	7.56
River Sirsa U/s Housing Board Nalla	DO	4.4	4.9	5.9	4.6
	BOD	2.8	14.0	8.0	3.2
	TC	112	72	110	40
Housing Board Nallah	pH	8.32	6.84	8.14	7.43
	DO	5.5	4.8	3.2	1.9
	BOD	3.6	12.5	4.0	2.8
River Sirsa D/s Housing Board Nalla	TC	62	86	40	120
	pH	6.30	7.50	8.42	7.40
	DO	1.6	0.5	0.2	0.2
River Sirsa U/s River Ratta	BOD	12.0	10.5	14.0	15.0
	TC	110	420	60	>1600
	pH	8.39	7.01	7.15	5.91
River Ratta Before Conf. to River Sirsa	DO	6.4	4.8	4.5	3.2
	BOD	2.2	12.0	10.0	10.0
	TC	58	112	40	350
River Sirsa D/s River Ratta	pH	8.45	6.77	6.87	6.59
	DO	8.1	5.0	6.5	5.2
	BOD	2.0	6.5	1.0	8.0
River Bald U/s Land fill site at Baddi	TC	24	32	22	41
	pH	7.62	6.94	6.70	7.29
	DO	7.2	5.2	7.2	5.9
River Sirsa U/s Land fill site at Baddi	BOD	2.8	10.0	4.0	18.0
	TC	56	88	30	150
	pH	7.08	7.18	7.77	7.41
River Bald U/s Land fill site at Baddi	DO	8.8	4.9	6.2	4.9
	BOD	8.0	15.0	2.0	12.0
	TC	40	32	33	280
River Bald U/s Land fill site at Baddi	pH	7.25	7.03	8.20	6.95
	DO	6.6	5.0	5.2	3.9
	BOD	1.0	7.5	1.2	1.8
River Bald U/s Land fill site at Baddi	TC	52	68	50	32
	pH	8.41	6.80	8.28	7.64

River Bald D/s Landfill site at Baddi	DO	7.8	5.1	7.1	5.8
	BOD	1.8	12.0	4.0	2.2
	TC	68	72	50	79
Gullerwala Nallah	pH	--	6.89	8.17	7.00
	DO	--	5.0	5.5	4.2
	BOD	--	5.0	1.0	4.0
	TC	--	90	21	47
River Sirsa U/s Khera Nallah	pH	7.12	8.17	7.90	--
	DO	6.2	4.8	8.6	--
	BOD	0.2	4.5	2.0	--
	TC	58	38	40	--
Khera Nallah	pH	7.49	8.39	--	--
	DO	7.2	4.0	--	--
	BOD	1.8	6.0	--	--
	TC	38	58	--	--
River Sirsa D/s Khera Nallah	pH	7.34	8.04	8.14	--
	DO	7.8	4.8	5.9	--
	BOD	1.6	4.0	1.0	--
	TC	65	72	22	--
U/S Manpura Nallah	pH	7.98	6.55	7.94	7.55
	DO	6.4	4.5	6.1	4.8
	BOD	1.2	14.0	10.0	2.2
	TC	32	56	50	38
Manpura Nallah	pH	7.35	7.03	7.88	7.00
	DO	7.4	5.0	8.6	7.3
	BOD	0.2	7.0	10.0	14.0
	TC	34	68	34	120
River Sirsa D/s Manpura Nallah	pH	7.01	8.09	8.17	7.14
	DO	7.8	4.0	7.6	6.3
	BOD	2.2	8.0	8.0	4.8
	TC	44	110	22	150
Kaushlya River U/s Parwanoo Town	pH	8.52	8.29	8.11	6.9
	DO	7.4	7	7.4	7.2
	BOD	0.8	0.3	0.6	0.1
	TC	14	8	9	<1.8
Kaushlya River D/s Intake Channel of WSS	pH	8.58	8.12	8.13	7.47
	DO	8.9	6.8	6.4	6.8
	BOD	1	4	0.5	0.2
	TC	12	7	4	120
Sukhana Nallah U/s WSS Sector – 4, Parwanoo	pH	8.44	8.23	--	7.43
	DO	7.7	7.3	--	5.9
	BOD	0.2	0.9	--	10
	TC	24	11	--	>1600

Sukhana Nallah U/S Sukhana Nallah Sec-V Parwanoo (Land fillsite)	pH	8.67	8.38	8.19	--
	DO	8.1	6.1	6.3	--
	BOD	1.8	0.5	0.4	--
	TC	28	28	12	--
Sukhana Nallah D/S Sukhana Nallah Sec-V Parwanoo (Land fillsite)	pH	6.54	8.44	7.55	--
	DO	5.1	5	5.6	--
	BOD	14	3	2	--
	TC	412	32	26	--
Masulkhana Nallah U/s Morepan Lab	pH	8.12	8.42	7.82	6.7
	DO	7.9	6.3	6.8	6.4
	BOD	0.6	3.5	1.6	0.1
	TC	6	22	4	<1.8
Masulkhana Nallah D/s Morepan Lab	pH	8.5	8.29	8.05	8.63
	DO	4.8	7.1	6.3	6.8
	BOD	120	2	2	16
	TC	410	160	110	>1600
Sukhana Nallah D/S WSS Kalka	pH	--	--	--	7.06
	DO	--	--	--	6.6
	BOD	--	--	--	110
	TC	--	--	--	>1600
U/s TSDF Site at Majra (Well)	pH	8.72		8.13	6.74
	DO	--	--	8.9	--
	BOD	0.4	--	1.2	1.0
	TC	8	--	6	<1.8
D/s TSDF Site at Majra (Well)	pH	8.68	--	8.04	7.32
	DO	--	--	6.5	--
	BOD	0.1	--	0.8	0.1
	TC	Nil	--	<1.8	<1.8
Well at house of Sh Gurudyal	pH	8.05	--	8.07	7.52
	DO	--	--	4.0	--
	BOD	0.1	--	1.0	0.1
	TC	Nil	--	<1.8	<1.8
Well at house of Sh Rana	pH	8.53	--	8.17	6.79
	DO	--	--	3.9	--
	BOD	0.1	--	0.2	0.1
	TC	Nil	--	<1.8	<1.8

Well of Sh Gurubaskh Vill Majra	pH	8.39	--	8.33	6.91
	DO	--	--	3.8	--
	BOD	0.1	--	0.4	0.1
	TC	Nil	--	<1.8	<1.8
Groundwater at Totu	pH	7.72	7.68	7.52	7.45
	DO	5.3	---	4.1	5.5
	BOD	0.1	0.1	0.2	0.1
	TC	Nil	Nil	<1.8	<1.8
Handpump Near Dhaggar, Market	pH	--	--	8.71	--
	DO	--	--	7.8	--
	BOD	--	--	0.4	--
	TC	--	--	<1.8	--
Handpump near Total Health Care, Parwanoo	pH	8.27	--	--	--
	DO	--	--	--	--
	BOD	0.1	--	--	--
	TC	<2	--	--	--
Handpump Sec-1 Near Shivalik Hotel	pH	8.18	--	8.94	7.6
	DO	--	--	7.9	8.3
	BOD	0.1	--	0.8	0.1
	TC	<2	--	<1.8	<1.8
D/s ACC Barmana, Satluj River	pH	7.94	7.81	7.64	7.76
	DO	9.1	8.9	9	9.3
	BOD	0.2	0.3	0.2	0.1
	TC	220	350	350	150
R. Suketi U/s of conf. of dragger outfall of SNR Balancing reservoir	pH	8.15	7.57	8.05	8.36
	DO	7.9	7.1	8.5	10.6
	BOD	0.1	0.1	0.1	0.1
	TC	180	430	210	110
River Suketi at Dadour bridge	pH	8.2	7.46	7.4	8.19
	DO	11.7	6	9.5	13
	BOD	0.2	0.1	0.2	0.1
	TC	540	>1600	920	350
U/s Mandi, Suketi Khudd	pH	8.15	7.39	7.78	7.98
	DO	7.9	6.3	8.2	9.9

	BOD	0.1	0.1	0.1	0.1
	TC	280	1600	350	220
U/s Darang, Salt Mine	pH	6.08	8.38	8.8	8.38
	DO	7.3	7.4	7.7	8.9
	BOD	0.1	0.1	0.1	0.1
	TC	46	43	140	70
D/s Darang, Salt Mine	pH	8.22	8.42	8.17	8.51
	DO	7.4	7.1	7.9	8.3
	BOD	0.1	0.1	0.1	0.1
	TC	94	46	150	79
River Beas, U/s of conf. of envisaged TRT of UHL- III	pH	7.66	7.31	7.75	8.46
	DO	9.5	9	9.3	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	170	63	170	170
River Beas, D/s of conf. of envisaged TRT of UHL- III	pH	7.71	7.09	8.86	8.7
	DO	9.1	8.8	9.4	9.4
	BOD	0.2	0.1	0.1	0.1
	TC	220	70	170	220
R.Beas, D/s of conf.of TRT of Largi HEP power house.	pH	7.6	7.5	6.78	7.63
	DO	9.4	9.7	9.8	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	180	120	130	150
River Beas, U/s Fermenta Biodil.	pH	8.05	8.23	7.5	7.54
	DO	9.4	8.6	9.7	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	240	170	280	170
River Beas, D/s Fermenta Biodil.	pH	7.91	7.16	7.36	7.65
	DO	9.4	8.6	9.7	9.3
	BOD	0.2	0.1	0.2	0.2
	TC	350	280	430	280
R. Parvati U/s of Dam site of Parvati-II at Pulga	pH	8	7.09	7.6	7.16
	DO	11.5	9.6	9.6	9.1
	BOD	0.1	0.1	0.1	0.1
	TC	49	46	63	47
R. Parvati D/s of Dam site of Parvati-II at Pulga	pH	7.17	7.16	7.47	7.24
	DO	11.5	9.6	9.6	9.1
	BOD	0.1	0.1	0.1	0.1
	TC	63	94	79	48
R.Beas, U/s Waste processing facility, Manali.	pH	7.61	7.69	7.89	7.07
	DO	9.9	9.6	9.5	9.6
	BOD	0.1	0.1	0.1	0.1
	TC	280	280	350	130

R.Beas, D/s Waste processing facility, Manali.	pH	7.6	7.42	7.72	7.03
	DO	9.9	9.6	9.5	9.6
	BOD	0.1	0.1	0.3	0.2
	TC	540	430	920	220
R.Beas, D/s of confluence with Allaign Nalla.	pH	7.27	7.28	7.53	7.01
	DO	9.9	9.6	9.5	9.6
	BOD	0.1	0.1	0.1	0.1
	TC	170	140	240	140
Allaign Nalla before confluence with R.Beas	pH	7.68	7.62	7.66	7.25
	DO	10.4	10	10	9.9
	BOD	0.1	0.1	0.1	0.1
	TC	79	70	140	70
R.Beas, D/s confluence with Duhangan Nalla.	pH	7.57	8.26	7.78	7.02
	DO	9.9	9.6	9.5	9.6
	BOD	0.1	0.1	0.1	0.1
	TC	180	170	280	130
Duhangan Nalla before confluence with R.Beas	pH	7.62	7.23	7.78	7.57
	DO	10.5	9.7	9.6	9.7
	BOD	0.1	0.1	0.1	0.1
	TC	49	79	170	63
R.Beas, U/s of confluence of R.Parvati	pH	7.73	7.4	7.52	7.6
	DO	9.1	8.5	9.2	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	130	210	280	220
R.Beas, D/s of confluence of R.Parvati	pH	7.57	7.2	8.08	7.62
	DO	9.5	8.6	9.3	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	140	220	350	280
R.Beas, U/s Waste processing facility Kullu.	pH	7.7	7.36	7.48	7.32
	DO	9.3	8.8	9.3	8.8
	BOD	0.1	0.1	0.1	0.1
	TC	280	350	350	110
R.Beas, D/s Waste processing facility Kullu.	pH	7.82	7.22	7.34	7.38
	DO	9.1	8.5	9.1	8.6
	BOD	0.3	0.3	0.2	0.2
	TC	540	430	920	350
R.Sainj, U/s envisaged power house site of Parvati-II.	pH	7.22	7.25	7.68	8.11
	DO	9.4	9.8	9.9	9.8
	BOD	0.1	0.1	0.1	0.1
	TC	63	79	220	79
R.Sainj, D/s envisaged power house	pH	7.35	7.6	7.7	7.86
	DO	9.4	9.8	9.9	9.7
	BOD	0.1	0.1	0.1	0.1

site of Parvati-II.	TC	130	94	240	170
R.Sainj, U/s envisaged power house site of Parvati - III.	pH	7.46	7.59	7.69	7.88
	DO	9.5	9.7	9.8	9.7
	BOD	0.1	0.2	0.1	0.1
	TC	70	110	240	110
R.Sainj,, D/s envisaged power house site of Parvati - III.	pH	7.68	6.7	7.76	7.86
	DO	9.5	9.7	9.8	9.7
	BOD	0.1	0.1	0.1	0.1
	TC	140	130	280	170
* River Satluj U/s Landfill Site Rampur	pH	7.58	7.82	7.57	7.94
	DO	9.4	9.3	9.4	9.2
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Satluj D/s Landfill Site Rampur	pH	7.63	7.99	7.58	7.91
	DO	9.4	9.3	9.4	9.2
	BOD	0.3	0.1	0.2	0.2
	TC	--	--	--	--
* R. Satluj D/s Duttanagar, D/s envisaged conf. of TRT of RHEP	pH	7.67	7.95	7.77	7.8
	DO	9.3	9.3	9.4	9.2
	BOD	0.1	0.1	0.1	0.2
	TC	--	--	--	--
* River Satluj U/s TRT of Nathpa Jhakri Project	pH	7.61	8	7.3	8.02
	DO	9.4	9.3	9.4	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Satluj D/s TRT of Nathpa Jhakri Project	pH	7.37	7.92	7.24	7.94
	DO	9.5	9.3	9.5	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	---	--	--	--
* River Satluj U/s confluence with Ganvi Khad	pH	7.54	7.79	8.02	8.06
	DO	9.4	9.4	9.5	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Satluj D/s confluence with Ganvi Khad	pH	7.43	7.85	7.22	8.06
	DO	9.3	9.4	9.5	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* Ganvi Khad before confluence to River Satluj	pH	7.46	7.85	7.88	7.92
	DO	9.3	9.3	9.3	9.4
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--

* River Satluj D/s NJPC Dam Nathpa	pH	7.49	7.86	7.64	7.93
	DO	9.5	9.5	9.5	9.4
	BOD	0.2	0.2	0.1	0.1
	TC	---	--	--	--
* River Satluj U/s confluence with Sorang Khad	pH	7.53	7.77	7.41	7.87
	DO	9.4	9.5	9.5	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	---	--	--	--
* River Satluj D/s confluence with Sorang Khad	pH	7.55	7.83	7.72	7.87
	DO	9.4	9.5	9.5	9.5
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Sorang before confluence to River Satluj	pH	7.57	7.86	7.78	8.01
	DO	9.3	9.4	--	9.7
	BOD	0.3	0.1	0.1	0.1
	TC	--	--	--	--
* Karcham Dam	pH	7.65	7.59	7.78	7.65
	DO	9.8	9.4	9.6	9.5
	BOD	0.3	0.2	0.2	0.1
	TC	--	--	--	--
* Baspa River Baspa Project	pH	7.68	7.66	7.87	7.91
	DO	9.3	9.3	9.5	9.6
	BOD	0.2	0.1	0.1	0.1
	TC	--	--	--	--
* River Baspa D/s reservoir at Kuppa	pH	7.58	7.79	7.67	8.1
	DO	9.4	9.5	9.7	9.6
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Tidong before conf. to River Satluj	pH	7.84	7.74	8.05	7.76
	DO	9.5	9.6	9.8	9.6
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Satluj U/s conf. with River Tidong	pH	7.58	7.62	7.86	7.98
	DO	9.7	9.7	9.7	9.8
	BOD	0.1	0.1	0.1	0.1
	TC	--	--	--	--
* River Satluj D/s conf. with River Tidong	pH	7.33	7.71	7.72	8.08
	DO	9.6	9.7	9.7	9.8
	BOD	0.2	0.2	0.1	0.1
	TC	--	--	--	--
Swan River D/S I.A. Gagret	pH	8.85	7.48	8.31	8.22
	DO	6.1	6.0	--	6.8
	BOD	0.8	0.7	5.5	2.6

	TC	--	--	43	500
Swan River U/S I.A. Gagret	pH	8.88	7.54	8.25	8.17
	DO	6.0	6.1	--	6.8
	BOD	0.4	0.2	0.4	0.8
	TC	--	--	34	350
River Ravi U/S Land Fill Site Chamba	pH	8.73	7.07	7.95	7.34
	DO	8.7	8.7	8.8	8.7
	BOD	0.5	0.8	0.2	0.4
	TC	--	--	--	140
River Ravi D/S Land Fill Site Chamba	pH	7.15	6.95	7.94	7.28
	DO	8.5	8.5	8.7	8.5
	BOD	0.8	1.4	0.3	1.6
	TC	--	--	--	170
River Ravi before conf. with River Baira	pH	7.6	7.1	7.76	7.85
	DO	8.6	8.8	8.7	8.6
	BOD	0.3	0.8	0.4	0.2
	TC	--	--	--	170
Bhiral Khad D/S STP Palampur	pH	7.27	7.01	6.91	--
	DO	7.1	7.7	8.1	
	BOD	0.8	2.5	0.6	
	TC	--	--	--	
Bhiral Khad U/S STP Palampur	pH	7.09	6.92	6.96	--
	DO	7.5	7.8	7.8	
	BOD	0.8	0.3	0.4	
	TC	--	--	--	
River Ravi after conf. with Baira River	pH	8.01	7.53	7.58	8.06
	DO	8.5	8.6	8.7	8.6
	BOD	0.3	0.2	0.5	0.2
	TC	--	--	--	240
River Ravi D/S Dam of Chamera-I HEP	pH	8.18	7.5	7.66	7.25
	DO	8.7	8.6	8.8	8.5
	BOD	0.4	3.5	0.2	0.2
	TC	--	--	--	220
River Ravi D/S TRT Power House -I HEP	pH	8.1	7.75	7.71	7.33
	DO	8.6	8.8	8.8	8.7
	BOD	0.5	1.4	0.4	0.2
	TC	--	--	--	280
River Baira before conf. with River Ravi	pH	8.12	7.7	7.37	8.02
	DO	8.7	8.7	8.6	8.7
	BOD	0.2	2.5	0.3	0.3
	TC	--	--	--	110
Chouch Khad D/s Ind.	pH	7.59	6.63	7.28	8.19
	DO	6.2	7.5	7.3	7.1
	BOD	0.6	0.4	0.4	0.2

Area Bain Attarian	TC	--	--	--	300
Chounch Khad U/s Ind. Area Bain Attarian	pH	7.98	6.86	7.19	8.36
	DO	6.7	7.8	6.9	7.2
	BOD	0.2	28	0.8	0.4
	TC	--	--	--	350
River Satluj U/S Bhakhra	pH	8.13	6.77	8.19	8.15
	DO	7.1	6.5	6.9	7.1
	BOD	0.3	0.4	0.2	0.2
	TC	--	--	31	170
River Swan U/S MSW landfill Santokhgarh	pH	8.14	7.21	7.88	8.34
	DO	6.1	6.0	5.5	6.9
	BOD	0.4	0.5	0.6	1.8
	TC	--	--	43	350
River Swan D/S MSW land fill Santokhgarh	pH	8.19	7.49	8	8.36
	DO	6.0	5.8	5.6	6.9
	BOD	0.5	0.3	0.5	1.0
	TC	--	--	46	500
River Baira U/S of Dam on Baira siul HEP	pH	7.96	7.57	7.38	7.23
	DO	8.7	8.8	8.7	8.5
	BOD	0.2	0.3	0.2	0.3
	TC	--	--	--	140
River Baira D/S Dam on Bairasiul HEP	pH	8.28	7.68	7.38	7.32
	DO	8.6	8.6	8.7	8.4
	BOD	0.2	0.2	0.2	0.3
	TC	--	--	--	130
River Siul U/S Dam of Siul for BSHEP	pH	8.17	7.75	8.06	7.39
	DO	8.8	8.7	8.9	8.7
	BOD	0.1	0.4	0.2	0.3
	TC	--	--	--	110
River Siul D/S Dam of Siul for BSHEP	pH	7.99	7.84	7.96	7.35
	DO	8.7	8.7	8.9	8.7
	BOD	0.2	0.2	0.4	1.0
	TC	--	--	--	110
Baled Khad U/S of Dam on Baled for BSHEP	pH	8.24	7.83	7.52	7.39
	DO	8.7	8.7	8.8	8.4
	BOD	0.2	0.2	0.2	0.5
	TC	--	--	--	170
Baled Khad D/S Dam on Baled for BSHEP	pH	8.1	7.82	7.63	7.43
	DO	8.7	8.6	8.7	8.4
	BOD	0.2	0.2	0.3	0.5
	TC	--	--	--	220
River Baira before conf.	pH	8.14	7.81	7.42	7.38
	DO	8.6	8.6	8.6	8.6

of TRT of BSHEP	BOD	0.2	0.3	0.2	3.0
	TC	--	--	--	170
River Baira after conf. of TRT of BSHEP	pH	8.11	7.8	7.09	7.58
	DO	8.6	8.7	8.7	8.5
	BOD	0.3	0.7	0.2	2.0
	TC	--	--	--	220
River Ravi U/S Chamera -II	pH	7.65	7.02	7.16	7.25
	DO	8.7	8.7	8.7	8.0
	BOD	0.3	0.4	0.2	0.3
	TC	--	--	--	130
River Ravi D/S Chamera -II	pH	7.99	7.21	7.2	7.18
	DO	8.6	8.5	8.6	8.3
	BOD	0.3	0.6	0.4	0.4
	TC	--	--	--	110
River Ravi U/S of Conf. of Budhil Nallah	pH	8.16	7.27	7.51	7.32
	DO	8.7	8.7	8.6	8.5
	BOD	0.3	0.8	0.2	0.5
	TC	--	--	--	110
Budhil Nallah U/S Dam of Budhil HEP	pH	8.09	7.33	7.85	7.28
	DO	8.8	8.5	8.7	8.4
	BOD	0.3	0.3	0.2	0.3
	TC	--	--	--	110
Budhil Nallah D/S Dam of Budhil HEP	pH	8.12	7.45	7.69	7.24
	DO	8.8	8.6	8.8	8.6
	BOD	0.2	0.2	0.4	0.3
	TC	--	--	--	170
River Ravi D/S TRT of proposed Budhil HEP	pH	8.12	7.4	7.71	7.3
	DO	8.7	8.6	8.7	8.7
	BOD	0.4	0.7	0.2	0.4
	TC	--	--	--	130
River Beas U/S Pong Dam	pH	8.37	8.2	7.24	8.18
	DO	8.0	8.5	7.9	7.1
	BOD	0.5	0.3	0.7	0.2
	TC	--	--	--	220
U/S Swan Khad IA Sansarpur Terrace	pH	8.86	8.33	7.64	7.32
	DO	7.0	7.5	7.0	6.9
	BOD	0.3	0.2	0.2	28.0
	TC	--	--	--	350
D/S Swan Khad IA Sansarpur Terrace	pH	7.85	7.95	7.65	8.07
	DO	6.9	7.1	7.0	6.9
	BOD	0.9	0.5	6.0	2.0
	TC	--	--	--	500
	pH	7.56	8.26	7.99	7.48
	DO	6.7	7.2	7.4	6.9

Luhad Khad U/s STP Jawalamukhi	BOD	10.0	10.0	0.6	36.0
	TC	--	--	--	500
Luhad Khad D/s STP Jawalamukhi	pH	7.05	7.93	8.2	8.02
	DO	6.6	7.0	7.1	7.1
	BOD	12.0	2.0	0.7	40.0
	TC	--	--	--	900
Baner Khad U/s STP TMC	pH	7.44	7.83	7.31	7.67
	DO	6.9	7.3	7.4	7.2
	BOD	0.5	0.2	0.2	1.0
	TC	--	--	--	280
Baner Khad D/s STP TMC	pH	7.42	7.56	7.34	7.99
	DO	7.2	7.1	7.3	7.5
	BOD	0.6	0.5	0.6	0.8
	TC	--	--	--	350
Charan Khad U/S STP Dharamshala	pH	6.7	7.22	7.78	7.87
	DO	7.4	7.1	7.2	7.1
	BOD	0.3	0.2	0.4	0.2
	TC	--	--	--	220
Charan Khad D/S STP Dharamshala	pH	6.4	7.48	7.93	7.81
	DO	7.3	7.0	7.3	7.3
	BOD	0.6	0.5	0.6	0.3
	TC	--	--	--	500
Dal Lake Naddi	pH	7.34	7.59	7.91	7.83
	DO	7.8	8.4	7.6	6.9
	BOD	0.4	2.8	0.4	2.2
	TC	--	--	--	500
River Yamuna U/S of Ranbaxy Paonta Sahib	pH	7.76	7.83	7.84	8.45
	DO	7.4	5.9	8.4	8.2
	BOD	1.4	1.6	1.2	1.2
	TC	20.0	18.0	22.0	22.0
River Yamuna D/S of Ranbaxy Paonta Sahib	pH	7.37	7.79	7.89	8.37
	DO	7.3	5.8	8.2	8.0
	BOD	1.6	1.6	1.6	1.6
	TC	22.0	20.0	18.0	26.0
River Yamuna U/S of landfill site Paonta Sahib	pH	8.25	7.33	7.77	8.48
	DO	7.2	5.5	8.0	8.0
	BOD	1.4	1.4	1.2	1.6
	TC	25.0	19.0	22.0	43.0
River Yamuna D/S of landfill site Paonta Sahib	pH	8.28	7.29	7.78	8.08
	DO	7.0	5.4	7.8	7.8
	BOD	1.6	1.8	1.6	1.6
	TC	20.0	20.0	20.0	46.0
	pH	8.25	8.21	7.78	8.43

River Markanda U/S of Markanda Bridge Kala Amb	DO	6.7	6.5	7.7	8.3
	BOD	1.6	1.2	1.5	1.2
	TC	30.0	22.0	18.0	27.0
River Markanda U/S of Jattanwala Nallah	pH	8.28	8.02	8.02	8.47
	DO	6.6	6.2	7.6	8.3
	BOD	1.6	1.6	1.6	1.2
	TC	32.0	24.0	24.0	27.0
Jattanwala Nallah	pH	7.21	7.18	7.03	7.84
	DO	Int.	2.8	NIL	NIL
	BOD	86.0	56.0	80.0	210.0
	TC	64.0	58.0	62.0	140.0
D/S Jattanwala Nallah	pH	7.96	7.9	6.92	7.44
	DO	2.1	5.0	1.9	1.5
	BOD	21.0	8.0	48.0	44.0
	TC	42.0	28.0	35.0	110.0