

**WATER QUALITY DATA FOR RIVER GANGA**  
(Summer Average: March-June)

SUMMER AVERAGE VALUES FOR WATER QUALITY ON MAIN STEM OF RIVER GANGA UNDER GANGA ACTION PLAN

STATION NAME	DISTANCE IN KM	DISSOLVED OXYGEN (DO) (mg/l) (Acceptable limit 5 mg/l or more)																					
		1986	1987	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Rishikesh	0	8.1	8.1	7.1	6.8	8.5	9.0	9.6	9.0	8.9	8.9	9.3	9.0	9.1	8.2	9.2	8.4	8.5	8.3	8.2	8.1	8.0	7.48
Hardwar D/S	30	8.1	7.7	6.9	7.1	7.7	7.2	8.8	8.4	8.4	8.8	8.6	8.6	8.8	7.8	9.0	8.1	8.1	8.1	8.1	7.9	7.8	7.38
Garhmukteshwar	175	7.8	4.7	6.1	7.2	-	8.5	8.0	7.9	7.7	8.1	8.1	7.9	7.8	7.4	8.2	7.6	7.7	7.7	7.9	7.8	7.9	7.43
Kannauj U/S	430	7.2	7.7	7.1	7.3	7.7	7.2	8.8	8.0	8.0	7.8	7.4	7.1	7.4	7.6	7.9	6.95	8.5 <sup>®</sup>	7.3	6.8	6.5	7.2	7.32
Kannauj D/S	433	NA	6.5	6.1	7.1	7.1	8.4	7.2	7.8	7.9	7.5	7.4	8.8	6.8	6.5	6.2	7.85	7.6 <sup>®</sup>	6.45	6.4	6.2	7.6	7.03
Kanpur U/S	530	7.2	7.8	7.9	7.8	7.5	7.5	7.0	8.1	7.8	7.5	6.7	6.8	4.9	6.2	6.7	7.18	6.2 <sup>®</sup>	6.2	5.8	4.9	7.5	6.35
Kanpur D/S	548	6.7	6.2	4.4	5.1	5.6	5.2	4.6	6.8	6.4	5.6	5.2	7.5	4.8	7.2	4.4	5.28	4.7 <sup>®</sup>	3.9	4.6	6.0	7.5	6.18
Allahabad U/S	733	6.4	7.8	8.0	7.1	6.8	6.9	8.2	8.2	8.9	7.4	7.7	8.8	7.5	13.0	10.0	7.82	8.5 <sup>®</sup>	7.1	7.9	8.4	8.1	7.67
Allahabad D/S	743	6.6	6.7	6.9	6.4	7.6	7.2	7.4	8.2	8.5	7.6	8.2	7.9	7.2	8.2	7.3	6.58	8.4 <sup>®</sup>	8.5	8.8	7.7	8.1	7.98
Varanasi U/S	908	5.6	8.4	7.8	7.6	7.3	8.2	7.2	8.5	8.0	8.8	8.8	8.2	6.5	10.8	7.2	6.30	8.6 <sup>®</sup>	8.7	8.1	7.5	7.8	8.46
Varanasi D/S	916	5.9	8.6	7.2	6.8	7.1	7.6	6.8	8.0	7.7	8.7	6.6	8.4	7.2	7.5	8.1	5.55	8.3 <sup>®</sup>	8.65	8.4	7.3	7.7	7.85
Patna U/S	1188	8.4	8.5	7.7	8.1	8.1	8.2	7.0	6.8	7.3	7.5	7.0	7.7	7.8	7.0	7.5	6.55	7.4	7.4	7.1	6.0	7.0	6.13
Patna D/S	1198	8.1	8.7	7.5	7.4	8.0	8.0	7.2	6.9	7.0	7.1	7.2	7.8	7.7	7.1	7.8	6.73	8.0	8.1	6.9	5.9	6.8	6.10
Rajmahal	1508	7.8	8.1	7.8	7.5	8.1	8.5	7.6	7.6	7.3	7.2	6.9	7.5	7.7	7.9	7.5	6.90	7.4	7.2	7.4	6.2	6.5	6.35
Palta	2050	NA	7.3	6.8	7.3	7.4	7.1	6.8	6.7	6.6	6.5	7.3	NA	6.8	7.2	7.2	7.55	7.0	6.96	6.9	6.9	7.2	7.61
Uluberia	2500	NA	5.8	6.4	5.9	6.9	6.1	6.8	6.6	5.5	5.1	6.6	NA	-	5.4	5.6	6.33	5.4	5.45	6.8	5.3	5.4	6.51

STATION NAME	DISTANCE IN KM	BIOCHEMICAL OXYGEN DEMAND (BOD) (mg/l) (Acceptable limit less than 3mg/l)																					
		1986	1987	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Rishikesh	0	1.7	2.8	1.5	1.1	1.2	1.3	2.0	1.5	1.0	1.1	1.1	1.0	1.1	1.2	0.5	1.1	1.0	1.1	1.2	1.2	1.0	1.48
Hardwar D/S	30	1.8	3.9	1.8	1.1	2.0	1.4	2.1	1.7	1.1	1.3	1.6	1.2	1.4	1.7	0.8	1.5	1.4	1.3	1.3	1.4	1.3	1.90
Garhmukteshwar	175	2.2	2.7	3.4	1.6	NA	1.6	2.5	2.4	1.5	1.5	1.8	1.4	1.8	2.2	1.2	1.9	2.0	2.1	2.0	1.9	2.0	2.18
Kannauj U/S	430	5.5	2.7	2.6	NA	2.1	2.3	2.7	2.4	2.9	3.4	3.6	5.3	14.4 <sup>^</sup>	1.1	1.2	1.73	1.7 <sup>®</sup>	1.11	1.7	2.9	1.5	4.18
Kannauj D/S	433	NA	5.1	3.0	3.0	2.7	2.5	3.0	3.2	3.2	3.7	3.5	4.8	11.8 <sup>^</sup>	4.2	3.3	3.18	4.5 <sup>®</sup>	4.2	4.1	3.1	4.8	4.58
Kanpur U/S	530	7.2	2.9	2.7	1.6	1.7	1.9	5.0	2.0	2.8	3.1	4.3	4.6	14.5 <sup>^</sup>	3.8	3.7	3.20	4.3 <sup>®</sup>	6.8	2.9	3.4	3.8	3.34
Kanpur D/S	548	8.6	9.7	3.5	65.8	25.0	24.5	8.5	5.5	4.1	5.4	6.4	6.5	18.5 <sup>^</sup>	4.8	6.1	5.73	5.4	6.8	5.2	4.1	3.9	4.16
Allahabad U/S	733	11.4	7.0	2.6	2.3	2.0	1.8	2.3	4.5	2.5	3.3	4.3	1.8	5.3	8.0	4.8	7.38 <sup>#</sup>	5.5 <sup>®</sup>	4.9	7.5	4.8	6.3	5.51
Allahabad D/S	743	15.5	8.2	2.0	1.7	1.9	1.9	3.6	3.2	3.3	2.1	2.6	3.2	3.6	3.8	3.2	3.58	3.1 <sup>®</sup>	3.2	4.1	3.2	4.0	4.41
Varanasi U/S	908	10.1	4.1	2.6	1.2	0.9	0.8	1.8	2.6	2.2	2.4	2.9	2.2	2.5	3.0	2.5	2.60	2.0 <sup>®</sup>	2.1	2.3	2.2	3.8	2.26
Varanasi D/S	916	10.6	4.8	5.9	1.9	1.3	1.0	2.9	1.4	2.3	3.1	4.3	3.7	4.4	2.5	5.4	2.65	2.3 <sup>®</sup>	2.25	3.7	3.0	3.1	3.78
Patna U/S	1188	2.0	1.9	0.3	1.4	1.2	1.2	1.6	1.5	2.0	2.0	1.2	1.9	1.9	1.8	2.0	1.63	2.0	2.0	1.7	1.7	1.6	1.79
Patna D/S	1198	2.2	2.1	0.3	0.9	1.6	1.5	1.6	1.4	1.6	1.3	1.6	2.4	2.4	1.9	2.8	1.65	2.2	2.3	1.8	2.4	2.1	2.20
Rajmahal	1508	1.8	1.6	0.3	1.0	0.6	0.7	1.9	1.7	1.3	1.4	1.1	1.5	1.5	1.4	2.2	2.10	1.8	1.95	1.6	2.0	1.6	1.63
Palta	2050	NA	1.0	0.9	0.8	1.0	0.9	2.5	2.1	1.6	2.1	2.2	NA	1.3	2.6	2.2	2.03	3.1	2.58	2.6	2.2	2.7	2.53
Uluberia	2500	NA	1.1	1.0	0.8	1.0	0.9	3.2	2.8	2.0	2.4	2.2	NA	-	1.9	1.9	2.43	2.6	2.64	3.2	3.6	2.4	2.69

\* Mean value for the months of March to June when the temperatures are high and flows are low.  
NA --> Date not available.

Source: BHEL, Hardwar  
IIT, Kanpur  
CPCB, Zonal Office, Lucknow  
Patna University, Patna  
BCKV, West Bengal