



Dr Vinod Tare
Professor & Founding Head - cGanga

November 16, 2022

Shapoorji Pallonji And Company Pvt Ltd
Nagindas Master Road, Fort Mumbai
400001 Maharashtra India

Subject: Performance Assessment of Various STPs in Kanpur
Ref: IITK_LoI_01 dated: May 30, 2022

Shapoorji Pallonji and Company Pvt Ltd vide their order No IITK_LoI_01 dated: May 30, 2022 requested to carryout 24 hr composite sampling through collection of grab samples at 2 hr interval and analysis of various composite samples prepared by mixing grab samples in proportion to the measured flows fat the inlet and outlet of 130 MLD STP (Jajmau Kanpur), 43 MLD STP (Jajmau Kanpur), 42 MLD STP (Sajari, Kanpur), and 210 MLD STP (Bingawan, Kanpur) for certain parameters.

The samples were collected by sampling team of cGanga, IIT Kanpur in presence of representatives from Shapoorji Pallonji and Co. Pvt Ltd and GPCU, UPJN on October 14-20, 2022.

The preservation and analysis of the sample was done as per the Standard Methods (Standard Methods for the Examination of Water and Wastewater, APHA). The analysis of the sample for the requested parameters started immediately after bringing it to laboratory. The results of the analysis are reported in following table.

Estimated Parameter Values of Various STPs in Kanpur

Location	Date of Sampling	TSS (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal Coliform	Total Coliform
130 MLD, Jajmau (Inlet)	October 17-18, 2022	418	174	464	1.30E+07	1.30E+08
130 MLD, Jajmau (Outlet)	October 17-18, 2022	60	60	166	1.30E+04	2.30E+05
43 MLD, Jajmau (Outlet)	October 17-18, 2022	38	26	112	5.00E+05	8.00E+05
42 MLD, Sajari (Inlet)	October 19-20, 2022	326	144	360	5.00E+05	1.40E+07
42 MLD, Sajari (Outlet)	October 19-20, 2022	34	20	74	8.00E+01	1.10E+02
210 MLD, Bingawan (Inlet)	October 14-15, 2022	442	180	480	3.40E+07	2.40E+08
210 MLD, Bingawan (Outlet)	October 14-15, 2022	42	48	142	2.70E+05	1.30E+06

NOTE: The results presented are on basis of one-time analysis of the samples collected by cGanga, IIT Kanpur.

(Vinod Tare)