



Dr Vinod Tare
 Professor & Founding Head - cGanga

April 5, 2023

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 at 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 during March 18-23, 2023.

The preservation and analysis of the samples were 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)	March 18-19, 2023	528	220	544	7.00E+07	3.50E+08
130 MLD, Jajmau (Outlet)	March 18-19, 2023	52	40	192	2.30E+05	3.00E+05
43 MLD, Jajmau (Outlet)	March 18-19, 2023	36	24	96	1.10E+05	2.30E+05
42 MLD, Sajari (Inlet)	March 22-23, 2023	518	190	512	2.30E+05	5.00E+06
42 MLD, Sajari (Outlet)	March 22-23, 2023	30	22	80	1.70E+02	2.60E+03
210 MLD, Bingawan (Inlet)	March 20-21, 2023	496	224	570	1.70E+09	5.00E+09
210 MLD, Bingawan (Outlet)	March 20-21, 2023	172	120	254	5.00E+06	1.30E+07

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


 (Vinod Tare)