



Dr Vinod Tare
Professor & Founding Head - cGanga

January 10, 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 December 20-24, 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)	December 21-22, 2022	486	228	544	2.70E+07	1.30E+08
130 MLD, Jajmau (Outlet)	December 21-22, 2022	64	64	178	2.30E+05	5.00E+05
43 MLD, Jajmau (Outlet)	December 21-22, 2022	38	30	122	1.70E+05	5.00E+05
42 MLD, Sajari (Inlet)	December 23-24, 2022	460	180	486	5.00E+06	8.00E+06
42 MLD, Sajari (Outlet)	December 23-24, 2022	28	24	102	8.00E+01	1.30E+02
210 MLD, Bingawan (Inlet)	December 19-20, 2022	476	200	512	3.40E+07	2.40E+08
210 MLD, Bingawan (Outlet)	December 19-20, 2022	92	78	192	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)