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December 8, 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 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 November 15-20, 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)	November 15-16, 2022	478	204	512	2.70E+07	2.40E+08
130 MLD, Jajmau (Outlet)	November 15-16, 2022	62	66	198	2.30E+05	5.00E+05
43 MLD, Jajmau (Outlet)	November 15-16, 2022	36	28	120	3.00E+05	5.00E+05
42 MLD, Sajari (Inlet)	November 19-20, 2022	392	170	416	5.00E+05	2.80E+06
42 MLD, Sajari (Outlet)	November 19-20, 2022	30	26	112	1.00E+02	2.00E+02
210 MLD, Bingawan (Inlet)	November 17-18, 2022	454	184	480	3.00E+06	8.00E+07
210 MLD, Bingawan (Outlet)	November 17-18, 2022	50	60	184	1.30E+05	2.30E+05

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

  
(Vinod Tare)