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May 1, 2024

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

Subject: Performance Assessment of Various STPs in Kanpur

Ref: Email dated May 11, 2023

Shapoorji Pallonji and Company Pvt Ltd via email dated May 11, 2023 requested to carryout 24 h composite sampling through collection of grab samples at 2 h 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 April 15-21, 2024.

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) ¹	April 15-16, 2024	508	240	544	5.00E+07	2.40E+08
130 MLD, Jajmau (Outlet) ²	April 15-16, 2024	58	36	112	2.30E+05	7.00E+05
43 MLD, Jajmau (Outlet) ³	April 15-16, 2024	66	42	152	2.30E+05	5.00E+05
42 MLD, Sajari (Inlet) ⁴	April 20-21, 2024	456	174	448	3.00E+06	1.30E+07
42 MLD, Sajari (Outlet) ⁵	April 20-21, 2024	38	21	64	1.70E+02	3.40E+03
210 MLD, Bingawan (Inlet) ⁶	April 18-19, 2024	452	210	448	3.00E+07	8.00E+07
210 MLD, Bingawan (Outlet) ⁷	April 18-19, 2024	46	36	132	2.30E+04	5.00E+05

1: Composite Sample prepared based on flow recorded as per reading of the flow meter installed; 2: Composite Sample prepared assuming uniform flow as there is no device installed for measurement of flow; 3: Composite Sample prepared assuming uniform flow as there is no device installed for measurement of flow; 4: Composite Sample prepared based on flow recorded as per reading of the flow meter installed; 5: Composite Sample prepared based on flow recorded as per reading of the flow meter installed; 6: Composite Sample prepared assuming uniform flow as there is no device installed for measurement of flow; 7: Composite Sample prepared assuming uniform flow as there is no device installed for measurement of flow.

The results presented are based on one-time analysis of the samples collected over 24 h period on the dates mentioned in the table by cGanga, IIT Kanpur.


 (Vinod Tare)