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October 5, 2024

Subject: Performance Assessment of Various STPs in Kanpur

Ref: Email dated April 23, 2024

Shapoorji Pallonji and Company Pvt Ltd via email dated April 23, 2024 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), 210 MLD STP (Bingawan, Kanpur) and 30 MLD STP (Pankha, 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 September 23-October 1, 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.

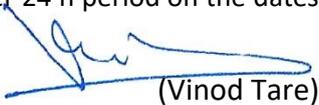
Estimated Parameter Values of Various STPs in Kanpur

Location	Date of Sampling	TSS (mg/l)	BOD (mg/l)	COD (mg/l)	Fecal Coliform	Total Coliform
130 MLD, Jajmau (Inlet) ¹	Sep 23-24, 2024	438	180	480	5.00E+07	6.00E+07
130 MLD, Jajmau (Outlet) ²	Sep 23-24, 2024	86	60	192	2.30E+05	3.00E+05
43 MLD, Jajmau (Outlet) ³	Sep 23-24, 2024	84	54	176	3.00E+05	5.00E+05
42 MLD, Sajari (Inlet) ⁴	Sep 27-28, 2024	544	220	560	6.00E+06	7.00E+06
42 MLD, Sajari (Outlet) ⁵	Sep 27-28, 2024	40	24	80	7.00E+02	4.00E+03
210 MLD, Bingawan (Inlet) ⁶	Sep 25-26, 2024	522	192	432	5.00E+07	9.00E+07
210 MLD, Bingawan (Outlet) ⁷	Sep 25-26, 2024	56	48	160	2.30E+06	5.00E+06
30 MLD, Pankha (Inlet) ⁸	Sep 30-Oct 1, 2024	172	66	208	2.30E+04	4.00E+04
30 MLD, Pankha (Outlet) ⁹	Sep 30-Oct 1, 2024	44	18	64	9.00E+02	2.20E+03

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; 8: Composite Sample prepared based on flow recorded as per reading of the flow meter installed; 9: Composite Sample prepared based on flow recorded as per reading of the flow meter installed.

Important Observations: *There is no flow in inlet and outlet observed after 08:00 pm and before 08:00 am at 130 MLD and 43 MLD STP in Jajmau, Kanpur due to power failure.*

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)

