

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR  
Centre for Ganga River Basin Management and Studies  
(Supported by Ministry of Jal Shakti)  
IIT Kanpur  
Uttar Pradesh, INDIA

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August 3, 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 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 July 18-28, 2024.

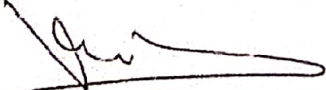
The preservation and analysis of the samples were done as per the Standard Methods (Standard Methods for the Examination of Water and Wastewater, APHA). The analysis of the sample for the requested parameters started immediately after bringing it to laboratory. The results of the analysis are reported 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) <sup>1</sup>	July 18-19, 2024	468	240	512	5.00E+07	8.00E+07
130 MLD, Jajmau (Outlet) <sup>2</sup>	July 18-19, 2024	48	32	112	3.00E+05	7.00E+05
43 MLD, Jajmau (Outlet) <sup>3</sup>	July 18-19, 2024	58	48	144	3.00E+05	5.00E+05
42 MLD, Sajari (Inlet) <sup>4</sup>	July 27-28, 2024	292	162	416	5.00E+06	1.10E+07
42 MLD, Sajari (Outlet) <sup>5</sup>	July 27-28, 2024	38	21	72	2.10E+02	3.40E+03
210 MLD, Bingawan (Inlet) <sup>6</sup>	July 22-23, 2024	452	220	484	5.00E+07	9.00E+07
210 MLD, Bingawan (Outlet) <sup>7</sup>	July 22-23, 2024	44	38	136	2.30E+06	6.00E+06
30 MLD, Pankha (Inlet) <sup>8</sup>	July 24-25, 2024	230	110	352	2.30E+05	3.00E+05
30 MLD, Pankha (Outlet) <sup>9</sup>	July 24-25, 2024	32	18	64	8.00E+02	2.70E+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.

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.

  
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