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**Shapoorji Pallonji and Company Pvt Ltd**  
Nagindas Master Road, Fort Mumbai  
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**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 June 20-29, 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>	June 20-21, 2024	508	240	576	5.00E+07	1.30E+08
130 MLD, Jajmau (Outlet) <sup>2</sup>	June 20-21, 2024	58	48	156	3.00E+05	8.00E+05
43 MLD, Jajmau (Outlet) <sup>3</sup>	June 20-21, 2024	66	60	160	2.30E+05	6.00E+05
42 MLD, Sajari (Inlet) <sup>4</sup>	June 25-26, 2024	456	168	448	5.00E+06	1.10E+07
42 MLD, Sajari (Outlet) <sup>5</sup>	June 25-26, 2024	36	22	68	2.10E+02	3.40E+03
210 MLD, Bingawan (Inlet) <sup>6</sup>	June 22-23, 2024	452	220	480	5.00E+07	8.00E+07
210 MLD, Bingawan (Outlet) <sup>7</sup>	June 22-23, 2024	46	42	132	2.30E+06	5.00E+06
30 MLD, Pankha (Inlet) <sup>8</sup>	June 28-29, 2024	282	108	256	2.30E+05	4.00E+05
30 MLD, Pankha (Outlet) <sup>9</sup>	June 28-29, 2024	44	24	76	2.10E+02	2.60E+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.

  
(Vinod Tare)