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# Centre for Ganga River Basin Management and Studies INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

**Shapoorji Pallonji and Company Pvt Ltd**

Nagindas Master Road, Fort Mumbai

400001 Maharashtra India

July 5, 2025

**Subject: Performance Assessment of Various STPs in Kanpur**

*Ref: Email dated May 15, 2025*

Shapoorji Pallonji and Company Pvt Ltd via email dated May 15, 2025 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 17-27, 2025.

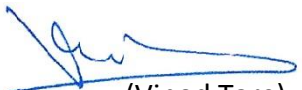
The preservation and analysis of the samples were done as per the Standard Methods (Standard Methods for the Examination of Water and Wastewater, APHA). The analysis of the sample for the requested parameters started immediately after bringing it to laboratory. The results of the analysis are reported 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 26-27, 2025 | 422        | 186        | 400        | 8.00E+06       | 3.00E+07       |
| 130 MLD, Jajmau (Outlet) <sup>2</sup>   | June 26-27, 2025 | 42         | 24         | 84         | 7.00E+02       | 8.00E+03       |
| 43 MLD, Jajmau (Outlet) <sup>3</sup>    | June 26-27, 2025 | 48         | 28         | 94         | 7.00E+02       | 8.00E+03       |
| 42 MLD, Sajari (Inlet) <sup>4</sup>     | June 20-21, 2025 | 486        | 220        | 512        | 4.00E+05       | 2.20E+06       |
| 42 MLD, Sajari (Outlet) <sup>5</sup>    | June 20-21, 2025 | 36         | 22         | 78         | 1.70E+02       | 3.30E+02       |
| 210 MLD, Bingawan (Inlet) <sup>6</sup>  | June 17-18, 2025 | 452        | 190        | 448        | 3.00E+07       | 9.00E+08       |
| 210 MLD, Bingawan (Outlet) <sup>7</sup> | June 17-18, 2025 | 46         | 38         | 128        | 1.70E+04       | 2.80E+04       |
| 30 MLD, Pankha (Inlet) <sup>8</sup>     | June 23-24, 2025 | 194        | 84         | 192        | 8.00E+06       | 9.00E+06       |
| 30 MLD, Pankha (Outlet) <sup>9</sup>    | June 23-24, 2025 | 32         | 16         | 58         | 1.10E+02       | 1.40E+02       |

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)