Delhi’s Supply of Raw Water

Delhi is dependent for its raw water supply from the river Yamuna which is treated at the water treatment plants at Haiderpur (Phase-II), Wazirabad and Chandrawal. Whereas Haiderpur water treatment plant is located on the Delhi Sub Branch Canal originating from Western Yamuna Canal, Wazirabad water treatment plant is located upstream of Wazirabad barrage on the right bank of the river. The raw water for Chandrawal water treatment plant is now received through a Carrier Lined Channel (CLC in map below.).

Due to perennial shortage of water received at Wazirabad, agitated in a Public Interest Litigation in 1996, the Hon’ble Supreme Court had directed the State of Haryana to keep the Wazirabad pond full round the year. Haryana releases water through the canal systems and through Diversion Drain No. 8, which joins the river Yamuna at Palla. Therefore, water is available in the river from Palla to Wazirabad round the year.

Yamuna’s flow from Palla Village (entry point in Delhi) to Badarpur (exit point from Delhi) is monitored by the Central Pollution Control Board (CPCB) at 5 locations at monthly frequency. The schematic flow diagram has been provided by CPCB illustrating water quality at the monitoring locations which is presented below. It is observed that the water quality varies widely year to year during the period 2011 to 2018 (till July). Date is presented graphically [HERE](#).
CPCB has observed that the water quality of River Yamuna does not meet the Class C quality parameters (BOD 3mg/L and Total Coliform 5000 MPN/100 ml) now at any of the monitoring locations in Delhi.

Flow Diagram of River Yamuna in Delhi Showing Water Quality Monitoring Locations of CPCB.

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