

As Water & Wastewater Infrastructure:

- ***Water Supply Scheme Projects (WSSPs), Microtunneling and Trenchless Methods***

Our Company has developed strong expertise in the execution of water supply projects, delivering critical water transmission infrastructure that ensures reliable and continuous access to treated water, particularly in urban environments. Our capabilities encompass the installation of water transmission mains and associated infrastructure using advanced trenchless construction technologies that minimize disruption to existing roadways, utilities, buildings, and public spaces.

A key strength of our Company is the use of microtunneling technology for the installation of large-diameter underground pipelines in densely populated and environmentally sensitive areas where conventional open-cut excavation is impractical as it minimizes environmental impact and public inconvenience while ensuring efficient project execution. The microtunneling process begins with comprehensive geotechnical investigations and utility mapping, followed by use of tunnel boring machines that facilitate accurate installation of pipelines below ground, that enables precise installation of reinforced concrete pipelines while maintaining strict alignment and depth specifications, even under complex geotechnical conditions.

Where project conditions or pipeline specifications make microtunneling unsuitable, our Company deploys Horizontal Directional Drilling (HDD) for the trenchless installation of smaller-diameter pipelines. This alternative method also minimizes environmental impact and public inconvenience while ensuring efficient project execution.

Following pipeline installation, we conduct comprehensive testing, including pressure testing and flow assessments, to verify the integrity, safety, and operational performance of the installed networks. We also construct associated infrastructure such as manholes, access chambers, and junction boxes to facilitate future inspection, operation, and maintenance.

Our expertise in trenchless construction enables us to successfully execute complex infrastructure projects in high-density urban areas, heritage zones, and locations with extensive existing utility networks, where conventional excavation methods would be impractical or highly disruptive. A notable example is our ongoing project for the Delhi Jal Board involving the laying of water transmission mains from the Bhagirathi Water Treatment Plant (WTP), demonstrating our capability to deliver high-impact urban utility infrastructure using advanced microtunneling technology while maintaining minimal surface disruption.