



Pentaaqua goes to NIT, Delhi

About Customer

The NIT - Delhi, one of the top-tier technological institutions among the 31 NITs established by the Indian government, is renowned for its excellence as an independent pillar for youth, with the aim of offering research facilities in various engineering, science, and technology disciplines to meet the global needs of quality-skilled students. Undoubtedly, it has emerged as the country's premier technological institute in recent years.

About Project

NBCC, while executing the entire Turnkey EPC project for NIT, partnered with Pentaaqua to lead the entire campus Waste Water Management challenges and recognising the importance of health and importance of nature's gift- Water, Pentaaqua offered their 'State of the art' ICEBERG Membrane Bio Reactor that occupies lowest space and with the help of submerged PVDF hollow fiber membranes, helped to achieve superior low BOD/ COD, transparent clear water for further reuse of 65,000 Ltrs. outlet water for flushing and irrigation applications.

The project includes oil and grease removal in primary, followed by coarse and automatic mechanical fine screens, and fully automatic PLC based automation for MBR and other utility operations. The treated water finally passed through an ultra violet solution for improved disinfection and with a Hydro Booster pack for the feed of recycled water to the high rise tanks of the institute.

Inlet - Outlet Parameters

Sr. No	Parameter	Inlet	Outlet
1	BOD	250 - 450 mg/l	<10 mg/l
2	COD	400 - 600 mg/l	<50 mg/l
3	TSS	200 - 400 mg/l	<2 mg/l
4	Oil & Grease	30 mg/l	Nil

