

International Development of Bank Filtration (IDB) – Case study in India.

Different aspects of bank filtration are subject of scientific investigations in many parts of the world. Due to a long experience and good cooperation of research institutes, water suppliers and local authorities the research done in the city of Berlin has contributed important results to the international community.

The objective of the IDB project is to assess the site's suitability for the technology referred to considering the subsequent development towards its commercial exploitation. Another objective is the validation of the knowledge and guidelines yielded by the NASRI project. As a preliminary study (to the subsequent [TECHNEAU](#)¹ Project) it will mainly analyse the geological, geochemical and hydraulic data at three selected field sites in the city of Delhi (**Figure 1**). At each field site several piezometers have been drilled for groundwater sampling and monitoring of water level. Sampling campaigns are being carried out periodically to detect seasonal changes of hydraulic and hydrochemical parameters through the annual cycle.

The „IDB-India“ Project was initiated by the KompetenzZentrum Wasser Berlin gGmbH ([KWB](#)) and the Freie Universität Berlin.

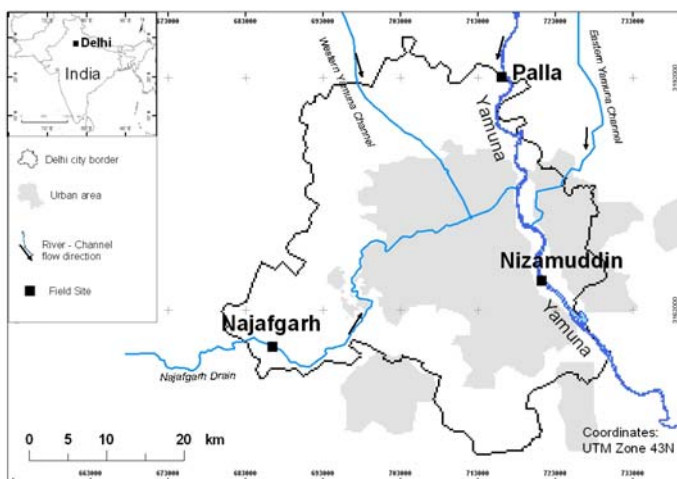


Figure 1 Selected field sites in the city of Delhi.

TECHNEAU-Project

“The Integrated Project [TECHNEAU](#) (Technology enabled universal access to safe water) challenges the ability of traditional system and technology solutions for drinking water supply to cope with present and future global threats and opportunities. This will be initiated through rethinking of current water supply options and by providing researched and demonstrated new and improved technologies for the whole water supply chain. At the end of the project the different end-users in the

water supply sector will have access to proven technologies and supply systems underpinned by decision support tools. This will enable end-users to make informed choices, appropriate to their own circumstances and constraints, for cost-effective and sustainable source-to-tap solutions for the provision of safe high quality drinking water that has the trust of the consumer.” (from: Annex I “Description of Work”, Proposal: 018320-02, 24-06-2005)

In the scope of the [TECHNEAU](#) project the EU has decided to foster the detailed examination of these present studies (IDB-India) to be realised between the end of the year 2006 and 2010. The financial support of the EU amounts to approx. 700.000 € Official Partners of the working package are the KWB (working package leader: Dr. B. Fritz), the FUB (Prof. Dr. A. Pekdeger) and the IIT (Dr. A. Mittal). The FUB will concentrate its investigations on the process of bank filtration as pre-treatment while experts from the IIT will focus on subsequent water treatment techniques. Within the scale of the research project, both Universities are going to implement PhD studies.