



Improving reservoir
operations for a **70,000 km²**
catchment area.

You can too.

DHI are the first people you should call when you have a tough challenge to solve in a water environment – be it a river, a reservoir, an ocean, a coastline, within a city or a factory.

Our knowledge of water environments is second-to-none. It represents 50 years of dedicated research and real-life experience from more than 140 countries. We strive to make this knowledge globally accessible to clients and partners by channelling it through our local teams and unique software.

Our world is water. So whether you need to save water, share it fairly, improve its quality, quantify its impact or manage its flow, we can help. Our knowledge, combined with our team's expertise and the power of our technology, holds the key to unlocking the right solution.

The expert in **WATER ENVIRONMENTS**



Local solution

The Bhakra Beas Management Board (BBMB) manages two reservoirs in Northern India – the Bhakra and Beas. The area often struggles with **flooding** during the monsoon (rainy) season and **water shortages** during the dry season. To prevent flooding, excess water is often released from reservoirs starting in July, wasting a valuable chance to collect extra water. This contributes to water shortages later on.

With a combined catchment area of nearly 70,000 km², BBMB wanted to improve its reservoir operations. To help BBMB, we developed a **Real-Time Decision Support System (RTDSS)**. Our RTDSS gathers and processes real-time data from multiple sources. It then provides decision makers with easily understandable information on the current state of their water resources. This helps BBMB optimise operations to meet the region's water needs, while also helping them **prevent floods and manage droughts**.

Global knowledge

Built on our MIKE CUSTOMISED Platform, our RTDSS uses **MIKE 11** and **MIKE BASIN** to analyse rainfall runoff, downstream flooding, water allocation, and water accounting. The RTDSS's hydraulic flood modelling simulates time varying flood maps for a given discharge. This gives operators the information they need to efficiently manage reservoir operations.

A flexible system, we can develop a RTDSS to suit your specific needs. From flood management to drought prevention, we can provide you with **customised solutions** to help you protect your precious water resources.



More information on this solution,
<http://dhigroup.com/Publications/DHISignatureProjects/India>



Contact us, marketing@dhigroup.com
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