



STVENANT LLP




Clarity through Complexity



Recent Projects

- Mathematical Modelling studies for Tidal hydrodynamics and Siltation Studies for a shipyard
- 3D wave Modelling for a jetty
- Flood Modelling and scour studies for a tidal River
- Modelling of Reservoir Sedimentation and Flushing
- Flood Modelling for a Metro Project in Oman.
- Groundwater Modelling for a River Basin

Contact Information:

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About Company

At STVENANT LLP ,we are transforming water dynamics into actionable insights through advanced numerical modelling. By integrating data driven analysis with proven research, we craft resilient future ready solutions for both natural and build environment - helping communities and industries adapt to the ever changing influence of water

Why Choose Us?

- **Proven Expertise**
- **Personalized Solutions**
- **Commitment to Quality**

Our Services:

- **Flood Modelling**

We specialise in catchment hydrology modelling, rainfall-runoff analysis, flood forecasting, river morphology studies, sediment transport analysis, dam break simulations, and groundwater modelling. Our data-driven approach ensures accurate water flow predictions and effective flood risk management.

- **Coastal & Marine Studies**

From tidal hydrodynamics to wave climate modelling, storm surge impact assessments, shoreline change detection, dredging impact analysis, beach and estuary morphology, and cyclone/tsunami modelling—we provide reliable insights for sustainable coastal planning and marine hazard mitigation.

- **Hydraulic Structures**

We deliver advanced CFD modelling for spillways, gates, and hydropower systems, along with flow optimisation, water hammer analysis, and physical model studies for both hydraulic and coastal structures.



- **Hydrology & River Morphology Studies**

Integrated catchment-scale hydrology and morphological modelling for flood control and river management.

Come on, let's consult immediately.

Team



Dr. Karan Gupta
Founder and Technical
Director
Post Doc - IIT Delhi
M.Tech-PhD - IIT Bombay
B.Tech - IIT Varanasi



Ms. Pratibha
Co-Founder and GIS
Expert
Master's NIT Jaipur



Dr. SVN Rao
Senior Advisor-Hydrology
and Drainage
Retd Project Director-
WAPCOS
PhD IIT Madras



Dr. Sudipta Chakraborty
Retd. HOD (Civil), Haldia
Dock Complex, Kolkata
Port Trust ME-IHE Delft,
Phd-The Assam Royal
Global University



Ms. Mahta Samie
Coastal and CFD Expert
Master's NTNU, Norway



Mr. Gunjan
Hydrology and Flood
Expert
PhD IITRAM(Ongoing)

Our Vision

Founder's Desk

At our core, we believe water systems demand more than isolated solutions – they require an integrated, intelligent approach rooted in science, technology, and real-world insight. That belief is what led me to found this company.

Drawing on my journey through IIT Bombay and IIT Varanasi, and years of experience in hydrology – from coastal and riverine modelling to groundwater and CFD – I envisioned a company that redefines how we model and manage water.

Our vision is to lead the transformation of the Water Systems Modelling industry through innovation, precision, and a deep understanding of interconnected hydrological systems. We aim to deliver solutions that are not only technically sound, but sustainable, cost-effective, and impactful for communities and clients alike.

We're here to set a new standard – where water modelling is smarter, faster, and future-ready.