

# MICROTUNNELING BUSINESS IN INDIA

A Presentation by  
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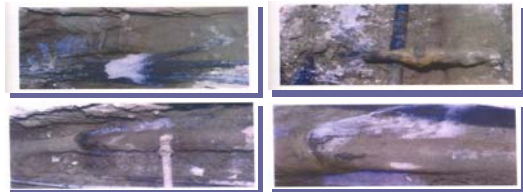
# Indian Requirement

## Urban Locations!



## Unaccounted for Water

Leaking Mains at Bangalore



Pics. Courtesy BWSSB

## Net Effects of System failure



## Problems

In Indian context the results for studies evaluating UfW are as high as 42%. I&I and SSO are normally immeasurable but the siltage is 80%.

A silted sewer in New Delhi,

View from the top of a Manhole &

Removed Silt/Trash.



## Outcome! (Present State of Affairs)



Loaded beyond capacity!

7

## Current Microtunneling Contractors (A Partial list)

- ✓ Michigan - Patel JV Ltd
- ✓ Pfeiffer
- ✓ Zublin
- ✓ Urmi Enterprises
- ✓ Some projects are in the bidding stages where other contractors are bidding. But the need of services outstrips the supply both for engineers as well as contractors.

8

# About IndSTT

9

## INDSTT Background

Indian Society for Trenchless Technology (IndSTT)  
is the apex body of  
Trenchless Technology in India.

It was established in 1995 with the Support of Ministry of  
Urban Development, Govt. of India

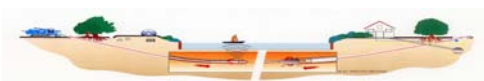


10

## About Us

The Governing Council includes representatives from the Construction Industry, Infrastructure Development Finance Organizations, Power Utilities, Telecom Utilities, Trenchless Equipment Manufacturers & the Trenchless Industry.

IndSTT is also a constituent of the apex network of Construction & Engineering related bodies like Construction Industry Development Council (CIDC), Engineering Council of India (ECI), Consultancy Development Centre (CDC) & Council for Actuarial Sciences and Risk Management (CARM).



11

# Way Ahead


12




**No-Dig India**  
National Seminar on  
Capacity Building for Urban Renewal through  
Trenchless Technology  
March 28th ~ 29th, 2007  
at  
Scope Complex, Lodhi Road  
New Delhi (India)

For more information, kindly visit our website [www.indstt.org](http://www.indstt.org)


13



## Seminar Highlights

- IndSTT in association with CIDC has formed a high level task force of engineers / officers from the 63 JNNURM implementing cities.
- The primary aims of this seminar would be to provide the meeting ground for this task force members and TT fraternity.
- IndSTT has already initiated dialogue with the Urban Ministry to request the JNNURM implementing authorities to include trenchless technology applications in these projects.
- IndSTT would be making direct contacts with the JNNURM implementing authorities so that they depute the nominated officers / alternate officers to visit this seminar.
- The seminar would be structured in five sections conducted over a period of two days. The streams proposed are planning and designing, construction, inspection and maintenance, rehabilitation and renewal and finally replacement or removal.

14



## Topics to be discussed

- **Planning and design section** would deal with the issues of route planning, site investigations, site modeling, E-governance in subsurface & trenchless technology designing for construction and designing for the life cycle.
- **Construction section** would deal with the issues of construction processes, damage prevention and development of construction records.
- **Inspection and maintenance section** would deal with the issues of data management, sensors and smart materials and performance feedback systems.
- **Rehabilitation and renewal section** would deal with subsurface network deterioration prediction, asset management methods, rehabilitation methods and record update.
- **Replacement or removal section** would deal with asset management, utility detection, replacement method and record update.

15



For more details please contact  
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16




**Indian Society for Trenchless Technology**  
Thanks you for your kind consideration and looks forward to developing a fruitful and lasting relationship with you.

17