

ANGERLEHNER

WE LIKE TO MOVE IT

Presentation of Angerlehner Hoch- und Tiefbau Gesellschaft mbH

Topic: Sewer rehabilitation in India



BUSINESS AREAS

ANGERLEHNER

WE LIKE TO MOVE IT

Structural engineering



Waste water treatment plant construction



Trenchless pipeline rehabilitation



Pipeline construction



Bridge building



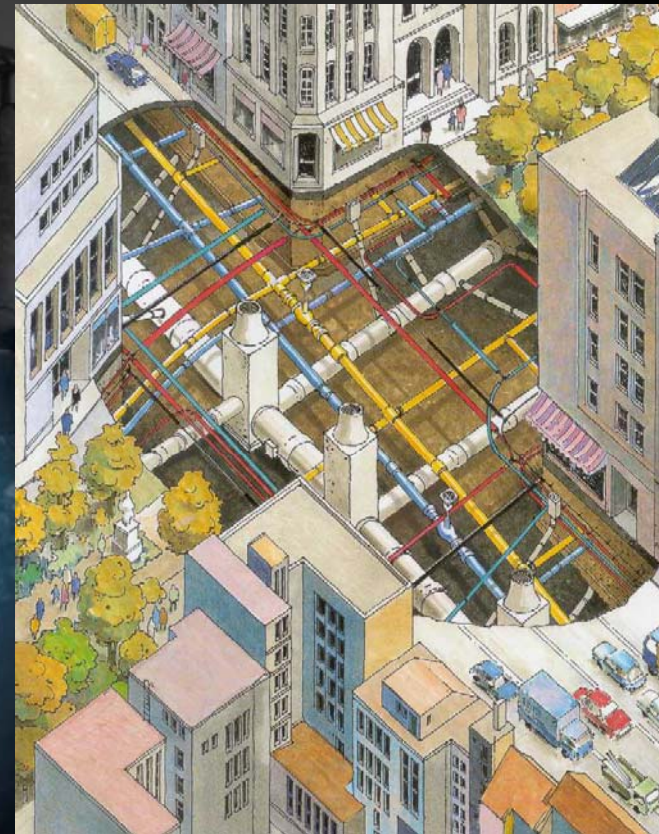
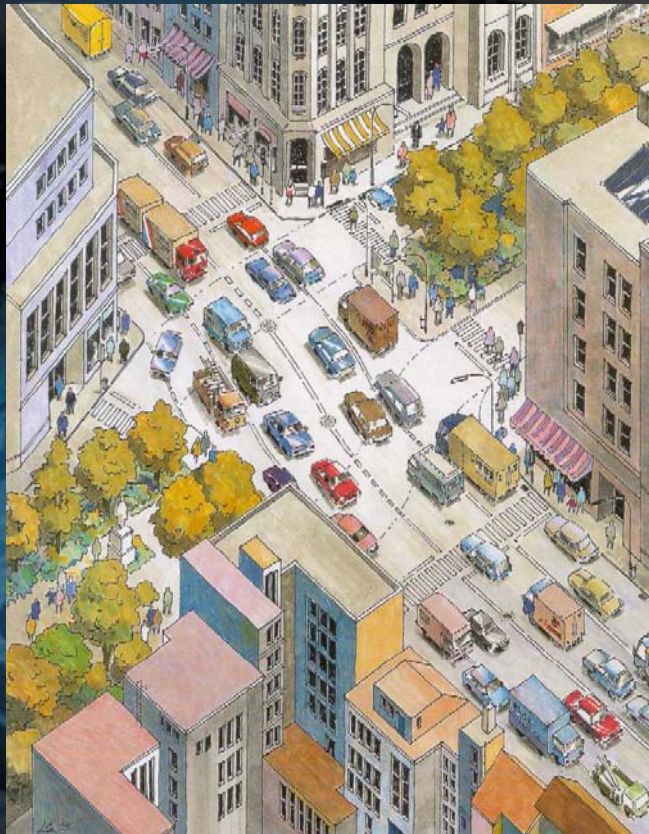
Construction of elevated tanks



MAIN BUSINESS

ANGERLEHNER

WE LIKE TO MOVE IT



The (under)ground reality

(TRENCHLESS) SOLUTIONS

ANGERLEHNER

WE LIKE TO MOVE IT

- Horizontal Directional Drilling (HDD)
- Pipe Bursting
- Various lining and repair methods
 - Slip lining (MCS Inliner)
 - Cured in place pipe lining
 - Robot rehabilitation
 - Sectional lining
- Applicable for water, gas and sewer pipes of 150 mm – 3000 mm and various shapes in Municipal or Industrial applications



MAJOR ADVANTAGES



WE LIKE TO MOVE IT

- Least excavations and disturbance to public life / existing services
 - Cost effective
 - Fully structural solutions
 - No environmental pollution
 - Improved hydraulics resulting in:
 - Less maintenance
 - Lower pumping costs
 - No overflowing (in case of sewers)
- ⇒ Applicable for water, gas and sewer pipes of diameter 150 mm – 3000 mm in Municipal or Industrial applications



PROJECTS IN INDIA AT A GLANCE

ANGERLEHNER

WE LIKE TO MOVE IT

Contract Period	Client	Contractor	Contract	Scope of works	Contract value
10/2000-12/2002	Municipal Corporation of Brihan Mumbai	Angerlehner Hoch- und Tiefbau Gesellschaft mbH	Rehabilitation of sewer lines by GRP liners using trenchless technology SO-CA-02	4.714m Egg shape 750/1120mm - 1650/2390mm	USD 4.481.258,96 + INR 104,651,185.47
10/2001-12/2003	Municipal Corporation of Brihan Mumbai	Joint Venture Angerlehner – Michel Bau GmbH	Rehabilitation of sewer lines by GRP liners using trenchless technology SO-CA-05	3.845m Egg shape 740/1110mm - 1880/2740mm	EUR 6.194.316,62 + INR 89,631,761.46
06/2007-10/2010	Delhi Jal Board Govt.of N.C.T	Joint Venture Angerlehner – Shriram EPC	Rehabilitation of Brick Barrel/Sewer from Pili Kothi to Ajmeri Gate and from Ajmeri Gate to Indian Express Sewer near Railway track via Deen Dayal Upadhaya Marg	4.400m Horse shoe 1550/2550mm Circular shape DN1900mm	INR 452,984,400.00
01/2008-10/2010	Delhi Jal Board Govt.of N.C.T	Joint Venture Angerlehner – Michel Bau GmbH	Rehabilitation of Ring Road Trunk Sewer – Slice “B” under YAP II	4.953m Circular shape DN 1854mm - DN 2566mm	INR 638,000,000.00
06/2008-12/2010	The Kolkata Municipal Corporation	Angerlehner Hoch- und Tiefbau Gesellschaft mbH	Up-gradation (Refurbishment & Rehabilitation) of Man entry Sewers along a) A.P.C. Road and b) Kolutola Street under JNNURM	6.641m Egg shape 813/1220mm - 2210/2857mm	INR 1,235,418,785.00
11/2008-04/2011	The Kolkata Municipal Corporation	Angerlehner Hoch- und Tiefbau Gesellschaft mbH	Up-gradation (Refurbishment & Rehabilitation) of Man entry Sewers along A.J.C. Bose Road under JNNURM	3.975m Egg shape 1807/2338mm – 2210/2857mm	INR 938,081,521.00

BUSINESS OBJECTIVES IN INDIA

ANGERLEHNER

WE LIKE TO MOVE IT

- Pipe and Sewer Rehabilitation
- Providing of pipe services
- Waste water treatment plants
- GRP pipe supply (plant in Kolkata)
- Potential applications in:
 - Public bodies / Municipalities
 - Industrial Plants:
 - Refineries
 - Paper mills
 - Steel plants
 - Etc.

