



**Technical Information Questionnaire  
for Trenchless Construction Project Analysis**

The data mentioned in the questionnaire is enough to compile preliminary commercial offer for tunneling or trenchless equipment. In order to compile proper commercial offer it is necessary to get the whole project information (technical assignment, method statement etc) and organize a tour of our specialist to the job site. Commercial offer is finalized at a personal meeting with the customer. In case a customer provides drilling or tunneling profile against geological conditions with detailed description of all geological elements, we will provide concise technological analysis of the project.

1	Name of the project/ place/ address of the job site	
2	Purpose for the tunnel (gas, water, sewage etc)	
3	Material of the pipe or lining (steel, concrete, carbon fiber, cast iron etc)	
4	Diameter of the tunnel (internal	
5	The length of the tunnel	
6	Maximum inclination of the tunnel	
7	Curves in the plan of the tunnel (yes, no, if yes, curve radius)	

## Trenchless Construction Equipment Questionnaire



8	Curves in the profile of the tunnel (yes, no, if yes, curve radius)	
9	<p>Geological conditions for tunneling:  Hard rock, soft rock, gravel, fine sand, clay, silt, mixed ground, fissures, permafrost inclusions, boulders, technological rubbish  <u>(please underline present conditions)</u></p> <p>For Hard Rock:</p> <ol style="list-style-type: none"> <li>1. Type of major mineral</li> <li>2. Unconfined Compressive Strength</li> <li>3. Abrasive properties</li> <li>4. Weathering description, content of residual soil</li> <li>5. Granular structure and texture</li> <li>6. Specific gravity</li> <li>7. Permeability</li> <li>8. Size of cavities in formation</li> </ol> <p>For Soft Soil:</p> <ol style="list-style-type: none"> <li>1. Specific Gravity</li> <li>2. Granular Structure</li> <li>3. Angle of internal Friction</li> <li>4. Water content</li> <li>5. Plasticity</li> <li>6. Water permeability</li> <li>7. Expansion factor</li> <li>8. Thickness of layer</li> <li>9. Cohesion</li> </ol>	Special notes on the geology
10	Level of ground water, depth of the tunnel	
11	Water obstacles to be crossed (rivers, lakes etc)	
12	Depth of reception and start shafts	
13	Difference between altitude reference points at both ends of the tunnel. (entry/exit point coordinates)	
14	Depth of the river, ravine, lowest point of the surface between the entry and exit points.	
15	Roads and access routes to the job site for low load trucks. Maximum weight and cargo size on the road.	
16	Weather conditions in the region (temperature range, precipitations, etc.), seismic rating	

## Trenchless Construction Equipment Questionnaire



17	Communication and transport means between the entry and exit points. Bee line versus truck route.	
18	Permission for construction, Contract, other documents to be obtained by the customer or by the contractor	
19	Project documentation, method statement.	
20	Preliminary starting date and construction time	

### Information on the customer

Date:	
Name:	
Name and Position of the responsible person:	
Phone:	
Email:	
Web page:	
CEO Signature:	

### To be Filled by the Supplier

Name and Position of the responsible person (Dealer)	
Name and position of the person who received the questionnaire (Producer, Contractor)	