

Call for expression of interest to write standards for various aspects of trenchless technology

The Southern African Society for Trenchless Technology (SASTT) invites consultants who are interested in the writing of standards for various trenchless technology (TT) techniques and support services currently used in South Africa, to submit proposals for doing this.

Background

There are several organisations involved with TT installations, namely client, designer, contractor and specialist service-provider that make decisions about the different aspects of a TT project. The standards needed fall into several categories, namely:

- codes of practice providing designers with guidelines for designing TT installations
- product standards providing manufacturers with required product properties
- standard installation-specifications giving construction details to contractors.

This project is a step in producing South African National Standards for TT so that there will eventually be a set of documents that will be available to:

- set minimum performance levels for TT projects
- provide a consistent means of communication between the various parties
- compare alternatives
- evaluate quality of workmanship
- determine whether or not the specified requirements are met.

There is a prescribed process for having documents accepted as national standards. Once the documents are available this process will be initiated, and client organisations will be encouraged to start using these documents. It is to be expected that the contents will be adjusted on a regular basis to cope with problems that occur so that when Standards South Africa, the standards-producing arm of the SABS, is ready to start this process, most of the practical problems will have already been addressed.

Scope of work

Initially the required standards are to be produced as stand-alone modules that cover specific techniques. Each module will consist of a series of documents that may or may not include a separate one dealing with the design, material and installation aspects of the specific technique. The proposed modules and documents within each module are detailed in the attached table. This list may be enlarged when new techniques are developed or introduced.

At a later stage when these documents are submitted to Standards South Africa they will be grouped, following discussions about the organisation's requirements. The documents are to be written so that they conform to the requirements of the relevant SANS standard/s for producing such documents.

As it is impractical to produce all these documents simultaneously, the following trenchless techniques have been selected as priorities. They are the most frequently used techniques - hence there is an urgent need for standards.

- slipling
- pipe bursting, splitting and cracking
- directional drilling.

It should be noted that all of these techniques involve the pulling of a liner or conduit through a pre-made or existing hole and that the tenderer may wish to write a single document covering the design guidelines for the three techniques rather than separate ones for each.

Submission details

Those interested in producing these documents must include the following details with their submissions:

- a list of projects where they have specified TT, giving client, technique used, standards used for liner design, product manufacture and construction, project size and dates
- the documents they intend producing
- the reference standards, and/or information sources they intend using
- an itemised quotation covering all the documents given in item above
- a plan detailing the time from for producing the documents
- the experience of the person/s in their organisation who will be writing these documents
- a covering letter detailing any other relevant items and signed by the responsible person at the organisation.

The closing date for submissions is 17:00 on Tuesday 20 November 2007. The documentation may be submitted electronically to the honorary director of SASTT (director@sastt.org.za), but a signed original must be received before a final award is made.

Additional notes

The evaluation of the bids will be done by a committee consisting of SASTT board members and anyone they choose to advise them. The decision of this committee will be final. No one on this committee may have a vested interest in the current phase of the project.

The lowest bidder may not necessarily be given the project and the work may be split between various bidders.

It is intended that the proposals will be available for the 2008 AGM.

Table 1: Anticipated TT activity modules and standards required

Activity	Module	Design	Pipe	Material	Service	Cnstrctn
NEW CONSTRUCTION	1.0					
Auger boring	1.1	Yes	Yes			Yes
Directional drilling	1.2	Yes	Yes			Yes
Micro-tunnelling	1.3	Yes	Yes			Yes
Moling	1.4	Yes	Yes			Yes
Pipe jacking	1.5	Yes	Yes			Yes
Pipe ramming	1.6	Yes	Yes			Yes
REPLACEMENT	2.0					
Bursting/splitting/cracking	2.1	Yes	Yes			Yes
Eating/reaming	2.2	Yes	Yes			Yes
RENOVATION (Liners)	3.0					
Close fit	3.1	Yes	Yes			Yes
Cured-in-place	3.2	Yes		Yes		Yes
Preformed liners	3.3	Yes		Yes		Yes
Sliplining	3.4	Yes	Yes			Yes
Spirally wound	3.5	Yes		Yes		Yes
Spray	3.6	Yes		Yes		Yes
Mortar	3.7	Yes		Yes		Yes
REPAIR	4.0					
In situ	4.1			Yes		Yes
Localised	4.2			Yes		Yes
Restoring bedding support	4.3			Yes		Yes
Re-rounding	4.4					Yes
SERVICES	5.0					
CCTV Inspection	5.1				Yes	
Leak detection	5.2				Yes	
Cleaning	5.3				Yes	
Utility location	5.4				Yes	
TOTALS	23	15	10	8	4	19