



## New TBM for Babushkin Substation Cable Tunnel Project in Moscow, Russia



LOVAT and Russian contractor Spetstonnelstroy have signed a contract for the supply of a new Mixed Face RME129SE Earth Pressure Balance Tunnel Boring Machine Series 23500. The TBM will be used in the construction of the Babushkin Substation Cable Tunnel Project in Moscow, Russia. The contract was signed in Moscow in the end of December 2006.

The tunnel length of 682.5 meters will be driven from Station N1 to Station N5, with a maximum slope of 0.3%. The TBM will bore a diameter of approximately 3.29 meters along a radius of curvature of 250 meters.

Geology along the tunnel alignment is characterized by fluvio-glacial and moraine sedimentary deposits. These consist mainly of silty sand, fine, medium and coarse grain sand, silty soil and gravel. The entire tunnel alignment will be in water saturated soils below the groundwater level. Water heights above tunnel alignment will be up to 10 meters, while the depth of cover above the tunnel crown will vary between 5 and 20 meters.

Delivery of the TBM is scheduled for June 2007.



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