



Mobilisation des ressources en eau dans l'Algérois Algeirs à Wilaya de Tizi Ouzou, Algeria



Cooperativa Muratori & Cementisti C.M.C. di Ravenna has reported significant progress in the multi-tunnel (totalling 11kilometres) Tizi Ouzou - Alger water-transfer project in northern Algeria. CMC is contracted to work for the General Contractor, SNC-Lavalin, as Tunnelling Sub-Contractor.

The first of two new LOVAT RMP146SE Hard-Rock TBMs, Series 22000, was launched February 19, 2006 by CMC for the 2,800metre Tizi Ouzou Tunnel and completed its drive August 6th, 2006. This TBM completed 2,800metres of tunnel in under 24 weeks. CMC will re-launch this TBM soon for the 2,600metre Naciria Tunnel.

Using the second new LOVAT RMP146SE Hard-Rock TBM (Series 22100), CMC started tunnelling on March 18th, 2006 for the Draâ-Ben-Khedda Tunnel. The second TBM broke though on May 17th after completing 1.2kilometres of tunnel with a primary lining of expanded Prefabricated Concrete Segments.

The second TBM was subsequently re-assembled and re-launched on June 18th, 2006 at the Thenia Tunnel and has since bored more than 1,000metres of the total 3.4kilometres. CMC is achieving a daily tunnelling rate of 24metres.

The tunnel alignments are above the water table and through hard, compacted and very compacted blackish-grey marl with an RQD typically from 75-90% and a UCS up to 70 mPa at a maximum depth above the tunnel crown of 95metres. The secondary lining of these water-transfer tunnels will be a grouted-in-place concrete pipe.

