



HARNESSING THE POWER OF HYDRO

MAVEL, AS RECEIVES ORDER FOR KAPLAN TURBINE FOR INFERNOS PROJECT IN PORTUGAL

Benesov, Czech Republic – 27 July 2004 – Mavel, a.s., a Czech engineering and manufacturing firm producing turbines and related technology for small hydroelectric power plants, announced that it has received an order from EFACEC Engenharia, S.A. to provide technology for the Infernos hydroelectric power plant just outside Porto, Portugal. The plant, which is owned by the firm Textil Manuel Gancalves, S.A., has head of 6.2 meters and flow of 19 m³/s.

Mavel will install its Vertical Kaplan Turbine 4-KT-190 with speed of 187.5 rpm and expected output of 1019 kW. Mavel will also provide trash racks, cleaning machines, gates, generator and hydraulic systems. EFACEC will provide the complete electric and control system.

Mavel's production program began in May and commissioning is planned for March 2005.

Mavel noted that this is the company's second project in the region of Portos. In 2000, the Moinhos plant was commissioned using one Mavel Horizontal Spiral Francis Turbine F 579. This turbine has a speed of 1000 rpm and output of 883 kW. The site has head of 77.5 meters and flow of 1.3 m³/s. The Customer for the Moinhos plant was Mini-Hydrica De Senihorim, Lda.

Mavel a.s. was founded in 1990 as a hydro-engineering firm and added manufacturing capability in 1993. Currently, Mavel provides engineering and all technology, including Kaplan, Francis and Pelton turbines, for hydroelectric power plants from 2 kW to 20 MW. The company has installed over 225 turbines worldwide in the past ten years.

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