



POLITECNICO DI TORINO
Dipartimento di Georisorse e Territorio



GEORESOURCES AND ENVIRONMENT ASSOCIATION



ITALIAN TUNNELLING ASSOCIATION

INTERNATIONAL CONGRESS
MECHANIZED TUNNELLING: CHALLENGING CASE HISTORIES

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SHANXI WANJIAZHAI YELLOW RIVER DIVERSION PROJECT
LOTS II & III

Abstract

The project, in the northern region of Shanxi, in PR of China, is part of an extensive water scheme for water diversion from the Yellow River to the main cities of the region.

The project, awarded in 1997 to Wan Long Joint Venture (Impregilo, CMC and a local partner) was completed in 2001.

The work is characterized by the unusual length of the tunnels: 88.7 km of tunnels have been excavated and lined by 4 TBMs achieving remarkable performances over the duration of the project.

The experience provided a significant example of rapid tunnel excavation and a demonstration of the critical aspects of the logistic organization for the successful completion of such kind of work.