

## **PT Aetra Air**

Case: New water supply pipeline for East Jakarta  
PE100+ member: Borouge Pte. Ltd.  
Author: KH Lou  
Period: 09/04/2010 to 30/06/2010  
Country/region: Indonesia, Jakarta  
Network owner: PT Aetra Air  
Engineer/Installer: PT Indopipe  
Pipe producer: PT Indopipe

The private water utility company in Jakarta, PT Aetra Air, is investing to expand its water transportation system in eastern Jakarta to cater for population growth. A planned large diameter water mains needs to be installed through a mixed residential & industrial neighbourhood in very narrow and congested roads. The utility and its contractors had to complete the installation without bringing the daily life of the communities along the route to a halt.

The project was carried out for municipal water supply. Material employed was PE 100. It was realized with diameter between 90 and 800 mm in order to replace Cast iron and steel. The use of PE 100 allowed working with a narrow trench and welding outside the trench. Moreover, due to the flexibility and lightweight there was no need for heavy lift equipment.

Further aspect of the project was that the narrow trench allowed the road to be passable during the construction phase. Moreover, construction time was shorter in comparison to traditional materials. In addition, there was less disruption to surrounding communities and less impact on the neighborhood. As the material does not corrode, it implies lower chances of leaks.



Welding the 800mm OD pipe on the roadside