

**TERRA MINI-JET MJLV 1400 lays 4 x 75 mm (3") pipes in Thailand**

City:	200 km (135 miles) north of Bangkok/Thailand
Contractor:	PEA (Provincial Electricity Authority) / Bangkok
HDD system:	TERRA MINI-JET MJLV 1400
Length:	65 m (215 ft)
Pipe to be pulled in:	pipe bundle with 4 x HDPE pipes OD 75 mm (3")
Drilling fluid:	"Premium Gel" with Polymer additives
Backream diameter:	Ø 260 mm (10"), 2 x intermedium rammings Ø 160 mm (6.3")/ Ø 215 mm (8.5")
Drilling depth:	5 m (18 ft)
Underground:	humid clay



**Picture left:**

The bore goes directly underneath this concrete road. Two power lines with 115 kV each are parallel. The concrete road was wire armed.

**Picture right:**

The TERRA MINI-JET MJLV 1400 is lifted into the starting pit. 2 steel plates at the front and at the rear prevent axial movement. The pilot bore was finished in 4 hours only.



**Picture left:**

The drill head reaches the arrival pit right on target. After this, the pit was increased for backreaming and pipe pulling.

**Picture right:**

After successful intermedium reamings the pipe bundle with 4 x HDPE pipes OD 75 mm (3") are pulled in with the backreamer  $\varnothing$  260 mm (10"). The pipe pulling adapters, which are made by TERRA, are water tight.



**Picture left:**

The backreamer  $\varnothing$  260 mm (10") has arrived in the starting pit. It is cleaned with the high pressure cleaning gun which is driven directly by the TERRA MINI-JET MJLV 1400.

**Picture right:**

The TERRA MINI-JET MJLV 1400 is lifted out of the pit after successful pipe pulling. It is cleaned immediately to be ready for the next job site!

