

Project Title : EXPANSION AND ADDITIONS & ALTERATIONS TO EXISTING EMERGENCY DEPARTMENT AT TAN TOCK SENG HOSPITAL

Owner : Tan Tock Seng Hospital

Engineer : CPG Corporation Pte Ltd

Architect : CPG Corporation Pte Ltd

Main Contractor : Teamsystem Pte Ltd

Contract Sum : S\$ 178,000.00

Period : July 2004 to August 2004

**Scope of Works : 27 nos of bored piles (diameters : 700mm, 900mm, 1000mm, 1100mm & 1200mm)
Bored pile lengths between 17 & 24m**

Site constraints :

- need to overcome sandstone boulders of thickness up to 5m
- need to overcome abandoned old ground anchors
- as the hospital was sensitive to vibration, casing installation by vibro was not allowed

**Sub soil condition : 0 to 4/6m stiff silty clay / loose silt sand
4/6 to 6/8m v. stiff to hard clayey silt
> 6/8m v. hard clayey silt with sandstone boulders**



Stabilization fluid : nil (dry)

Major equipment deployed :

- Boring Rigs Soilmec R618 & Mait HR130
- 50 ton crawler crane
- Rotary drive adaptor for casing installation
- Excavator

Tools :

- Auger, bucket & core barrel
- Casing lengths bet 6 & 8m

