

**Project Title : HOTEL DEVELOPMENT AT JALAN KUBOR / JALAN SULTAN**

**Owner : Yu Da Asia Investment Pte Ltd**

**Architect : Archiwave Architects**

**Engineer : Yan Consultants**

**Client : Zap Piling Pte Ltd (Main Contractor : Yield Engineering Pte Ltd)**

**Contract Sum : S\$ 375,000.00**

**Period : Sep 2006 to Nov 2006**

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**Scope of Works : 34 nos of 700mm & 14 nos of 800mm diameter bored piles**

As the project site was within MRTC's 2<sup>nd</sup> & 3<sup>rd</sup> Reserves & next to conservation building, a non vibration casing installation method (by rotary method) had to be deployed

16 nos of the bored piles require “debonding casing” of lengths between 2.5m & 7m

Pile lengths approximately 43m

Sub soil condition	: 0 to 6m	Loose Clayey Sand
	6 to 8m	Jet Grout Pile (JGP)
	8 to 15m	Soft Marine Clay
	15 to 18m	Stiff Silty Clay
	18 to 24m	Soft Marine Clay
	24m to 26m	V Stiff Clayey Silt
	> 26m	V Hard Clayey Silt / V Dense clayey Sand

**Stabilization fluid : polymer**

**Major equipment deployed :**

- Boring Rig Soilmec R618
- Crawler Crane – 50ton
- Excavator
- Polymer plant
- Rotary drive adaptor for casing installation

**Tools :**

- Boring Bucket, Auger, Cleaning Bucket
- Casing lengths 6/7m

**Pile Load Tests :**

- Kentledge
- PDAs

