

**Project Title : CHARTERED SEMICONDUCTOR MANUFACTURING FAB 7C**

**Owner : Chartered Semiconductor Manufacturing Ltd**

**Architect : Ong & Ong Architects Pte Ltd**

**Engineer : SCE Consultants Pte Ltd**

**Client : Ando Singapore Pte Ltd / Takasago Singapore Pte Ltd**

**Contract Sum : S\$ 3,885,000.00**

**Period : Mar 2008 to Aug 2008**

**Scope of Works : 87 nos of 1000mm & 36 nos of 600mm diameter bored piles with base grouting**

As the project site is next to semiconductor manufacturing plant, a non vibration casing installation method (by rotary method) and rock socketing without chiseling have to be deployed

Pile lengths approximately 25 & 45m with rock socketing into granite bedrock upto 3m for 1000mm & 0.6m for 600mm diameter bored piles

**Sub soil condition :**

0 to 3/4m	M Stiff to Stiff Clayey Silt
3/4 to 14/18m	Loose Silty Sand / Stiff Clayey Silt
14/18 to 19/45m	V Stiff to Hard Clayey Silt
> 19/45m	Granite Bedrock of GI/GII

**Stabilization fluid : polymer**

**Major equipment deployed :**

- Boring Rig Bauer BG28
- Crawler Crane – 50ton
- Excavator
- Polymer plant
- Rotary drive adaptor for casing installation

**Tools :**

- Boring Bucket, Auger, Core Barrel, Rock Roller Bit Core Barrel & Cleaning Bucket
- Casing lengths 8/10m

**Pile Load Tests :**

- Kentledge

