

MAJOR GROUND ENGINEERING PROJECTS

YEAR 1991 – 2004

Year 2004

<u>S/N</u>	<u>PROJECTS</u>	<u>DESCRIPTION OF WORKS</u>
1	GHU Phase 3 Debottleneck, Jurong Island	Micropiling Works
2	No.33 Greenwood Avenue	Instrumentation & Monitoring Works
3	ExxonMobil Chemical Plant - SPE	Micropile, Instrumentation & Monitoring Works
4	No 7, Chancery Hill	Instrumentation & Monitoring Works
5	C853 - Marymount station	Micropiling Works
6	Flue Gas Treatment Plant at Tuas Incineration Plant	Instrumentation & Monitoring Works
7	21, Sakra Rd, Jurong island (substation 2)	Micropiling Works
8	Changi Water Reclamation Plant C3B	Slope Stabilization
9	Mosque Dev. @ Bishan Street 14	Instrumentation & Monitoring Works
10	No.7 Maple Rd	Instrumentation & Monitoring Works
11	Khatib Camp	Instrumentation & Monitoring Works
12	Changi Water Reclamation Plant C3B	Soil Investigation Works & Slope stabilization works
13	Structure 'X' at ECP in JI	Micropiling Works
14	Kolam Ayer Link Sewers - MH1-24	Boring Works
15	Istana at Orchard Road	Instrumentation & Monitoring Works
16	ExxonMobil @ Jurong Island	Micropile, Instrumentation & Monitoring Works
17	DTSS Kolam Ayer (MH20&21)	Jet Grouting Works
18	Catholic High School	Instrumentation & Monitoring Works
19	Mayfair Park	Instrumentation & Monitoring Works
20	Singapore Chemical Plant	Micropiling Works
21	Celanse S'pore. P/L @ Jurong Isl Sakra Ave	Micropiling Works
22	Stadium Walk	Tensile Test at C421

Year 2003

1	HDB Lup C3 (Bedok South Avenue 3)	Micropile Works
2	Bukit Batok (Pavilion Park) PHASE 2	Slope Stabilization Works
3	Jnr. College at Woodlands Avenue 1 & 2	Micropile Works
4	C5650 Foundation @ Chevron, Jurong Island	Micropile Works
5	Consultation Works for LTA Contract PR0111	Design and Consultation Works
6	SCDF HQ cum Fire Station @ Bt. Batok Road	Instrumentation Monitoring Works
7	SCDF HQ cum Fire Station @ Bt. Batok Road	Slope Stabilization Works

S/N PROJECTS

- 8 Schering Plough @ No. 50 Tuas West Drive
- 9 BKE from KJE to SLE
- 10 Kolam Ayer Link Sewers
- 11 Jalan Besar Food Centre

DESCRIPTION OF WORKS

- Micropile Works
- Rock Mapping
- JGP Works
- Instrumentation Monitoring Works

Year 2002

- 1 Bt. Batok Town N3 C12
- 2 Belle Vue Condo
- 3 Wind Tunnel Hall at NUS
- 4 School of Biological Sciences & Animal House @ NTU
- 5 Cairnhill Condominium
- 6 ExxonMobil Chemical at Jurong Island
- 7 Bedok Link Sewers (DTSS)
- 8 HDB Lup C3 (Bedok South Avenue 3)
- 9 No. 25, Queen Astrid Park
- 10 Ceylon Road (PHASE III)

- Earthworks for Slope Repair
- Project Management
- Micropile Works
- Soil Nails
- Pressure Grouting Works
- Micropile Works
- Jet Grouting Works
- Micropile Works
- Slope Protection Works
- Micropile Works

Year 2001

- 1 Malay Heritage
- 2 Changi Water Reclamation Plant
- 3 CDANS Country Club

- Instrumentation Works
- JGP Works
- Micropile Works

Year 2000

- 1 The Esplanade
- 2 Bukit Gombak (MINDEF Base)
- 3 NUS
- 4 Cairnhill Condominium
- 5 17 Niven Road
- 6 Northland Primary School
- 7 C504 Changi Airport
- 8 Rectification Works at Sentosa Golf Club

- Jet Grouting Works
- Geophysical Surveys
- Micropile Works
- Ground Anchors / Instrumentation Works
- Soil Nails / Guniting & Instrumentation Works
- Micropile Works
- Jet Grouting Works at Overrun
- Soil Nails / Guniting Works

S/N PROJECTS

- 9 Cairnhill Mansion
- 10 MICRON
- 11 MICRON Upgrade
- 12 MCST 1117 Belle Vue Condominium
- 13 188 Telok Ayer Street
- 14 Abdul Gafoor Mosque
- 15 Housing Dev. @ Bt. Batok Road
- 16 Belle Vue Condo

DESCRIPTION OF WORKS

- Soil Nails / Grasscrete Works
- Micropile / Guniting Works
- Micropile Works
- Slope Protection Works
- Micropile Works
- Underpinning Works
- Instrumentation Works
- Slope Protection Works to Existing Retaining Wall

1 Year 1999

- 2 Raffles Link
- 3 Sunteck Link
- 4 Beach Road
- 5 Woodlands Avenue 6
- 6 Burhani Mosque (Hill Street)
- 7 NUS Slope Protection Works
- 8 Polytechnic Station
- 9 MRT C707 (Dhoby Ghaut site)
- 10 C504 (Changi Airport Line)
- 11 Bukit Batok Road (Pavilion Park) - Phase 1
- 12 Tampines Avenue 10

- Jet Grouting Works
- Micropile Works
- Micropile Works
- Soil Nails
- Jet Grouting Works
- Soil Nails / Guniting Works
- Micropile Works
- Micropile and Rock Blasting Works
- Jet Grouting Works @ Crossover & Station Areas
- Slope Stabilization Works
- Jet Grouting Works

1 Year 1998

- 2 MRT Contract C705 (Boon Keng & Sennett Stations)
- 3 Wilkie Terrace
- 4 MRT C705 (Tunnel Eye @ Boon Keng Station)
- 5 NEL MRT C707
- 6 Ponggol Road
- 7 Eng Kong Road
- 8 Wharf at Gul Road

- Jet Grouting Works for Tunnel Excavation
- Retaining Wall
- Pipe Roofing
- Rock Bolt and Shotcrete Works
- Soil Nails & Guniting Works
- Instrumentation Works
- Permanent Ground Anchor

S/N PROJECTS

- 9 Foochow Methodist Church (90 Race Course Road)

DESCRIPTION OF WORKS

Underpinning & Strengthening Works of Existing Sanctuary at Foochow Methodist Church next to NEL Construction

Year 1997

- 1 Amara Hotel
2 Kentish Green Project
3 NUS Faculty of Architecture
4 POSB HQ
5 Papua New Guinea (PNG) NPF Tower
6 Thomson Medical Centre Extension
7 Goldbell Towers
8 The Esplanade
9 Parc Palais Condominium
10 Mt. Sinai Drive (Nos. 56, 58, 60, 62 and 64)
11 Sixth Avenue

Underpinning Works
Ground Improvement with Jet Grouting
Instrumentation, Micropiles, Guniting
Jacking Tests with Caissons
Design & Build soil nails, anchors, gunite wall and micropiles
Micropile Works
Micropile Works
Slope Stabilization Works
Rock Slope Stabilization
Stabilization of Retaining Wall
Ground Anchor Works

Year 1996

- 1 Upper East Coast Road
2 Building at Jalan Kilang
3 Palm spring Condominium
4 Bungalow development at 5th / 6th Avenue
5 Kranji Race Course
6 Thomson Medical Centre
7 Parbury Avenue
8 Hindhede Park

Contiguous micropiles wall
Instrumentation, slope stabilisation with anchors, soil nails and reinforced gunite
Testing of group of piles with anchored beam system
Ground anchors and micropiles
Base grouting to bored piles
Micropiles
Stabilisation of failed slope
Geotechnical rock studies

Year 1995

- 1 HDB's Woodlands New Town Contract Number N5C3
2 HDB's Bukit Panjang Contract Number N5C7
3 HDB's Bukit Panjang Contract Number N5C8

Supply and installation of drilled micropiles
Installation of micropiles in granite
Supply and installation of micropiles in granite

S/N PROJECTS

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| 4 | HDB's Bukit Panjang Contract Number N5C12 |
| 5 | Hume Park 1 |
| 6 | Savoy Park, Eng Kong Road |
| 7 | Commercial Union Building |
| 8 | Singapore River |
| 9 | Seasons Complex, Kuala Lumpur |
| 10 | Bandar Puchong Jaya, Kuala Lumpur |
| 11 | National University of Singapore, Faculty of Engineering |
| 12 | Inland Revenue House |
| 13 | Bank of China |
| 14 | Temasek Polytechnic |
| 15 | HDB's Woodland New Town Contract Number N6C12 |
| 16 | Choa Chu Kang Mass Rapid Transit Station |
| 17 | Marsiling (Woodlands Avenue 5) |
| 18 | YWCA Hotel |
| 19 | Nanyang Technological University |

DESCRIPTION OF WORKS

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| Supply and installation of micropiles in granite |
| Slop stabilisation with ground anchors, soil nails, gunite and horizontal drains |
| Drilling for the installation of micropiles |
| Supply and installation of micropiles and jet grouting, as well as the installation and monitoring of inclinometers, piezometers and water standpipes |
| Installation and monitoring of inclinometers, piezometers extensometers and tilt plates |
| Drilling for the installation of micropiles through the ground into limestone and granite |
| Drilling for the installation of micropiles into dense silty sand |
| Supply and installation of micropiles, soil nails, instrumentation, gunite, grid beams and gunite to contiguous bored piles wall |
| Soil investigation, instrumentation, jet grouting and the installation of micropiles |
| Installation of micropiles, ground anchors and tension piles |
| Installation of ground anchors to retain contiguous bored piled wall |
| Supply and installation of micropiles in granite |
| Supply and installation of horizontal sub-soil drain |
| Jet grouting to manholes |
| Installation of soil nails and gunite to stabilise basement excavation |
| Earthworks and horizontal drains for slope stabilisation |

Year 1994

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| 1 | Convent of the Holy Infant Jesus | Micropiles and tension anchors for basement construction |
| 2 | Ministry of Defence, Depot Road | Installation of ground anchors to support a crib wall |
| 3 | Lavender street | Supply and installation of micropiles |
| 4 | Nanyang Technological University | Slope stabilisation |

S/N PROJECTS

- 5 LA Suisse Condominium
- 6 Upper Bukit Timah Malaysian Railway Station
- 7 Nanyang Technological University

DESCRIPTION OF WORKS

Installation of permanent ground anchors with post grouting to support existing reinforced concrete wall

Supply and installation of micropiles

Slope Stabilisation by earth work and the installation of ground anchors and horizontal drains

Year 1993

- 1 Pulau Seraya
- Installation of permanent ground anchor to provide lateral support for the jetty

Year 1992

- 1 Orchard Point
 - 2 Singapore Island Country Club
 - 3 Singapore Swimming Club
- Installation of micropiles for underpinning work
- Micropiles for Administration Building extension
- Slope stabilisation

Year 1991

- 1 Bukit Gombak
- Installation of ground anchors to support a contiguous bored pile wall