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## GEOTECH INTERNATIONAL GROUP OF COMPANIES

### MAJOR EQUIPMENT LISTS

(Prepared: 02 January 2019)

#### *Drilling and sampling capability and assets*

No.	Drilling, sampling & support equipment	No. of sets	Date	Ownership	Notes
1	Boat Longyear DeltaBase DB 525	1	2010	Geotech (Singapore)	Light duty track mounted mineral exploration and heavy duty geotechnical exploration drill rig NQ wireline drilling capability to 500 m Automatic SPT test hammer Reverse Circulation capacity
2	Boat Longyear DeltaBase DB 520	1	Rebuilt 2015	Geotech (Vietnam)	Light duty track mounted mineral exploration and heavy duty geotechnical exploration drill rig NQ wireline drilling capability to 350 m Automatic SPT test hammer Reverse Circulation capacity
3	Boart Longyear DeltaBase DB 80	1	Rebuilt 2011	Geotech (Singapore)	Medium duty crawler mounted construction drill – for anchoring and inclined drilling
4	Boart Longyear DeltaBase DB 100	1	Rebuilt 2011	Geotech (Singapore)	Heavy duty crawler mounted construction drill – for anchoring and inclined drilling
5	Crown ZDY100 Drill	1	New 2018	Geotech (Vietnam)	Heavy duty track mounted mineral exploration and heavy duty geotechnical exploration drill rig NQ wireline drilling capability to 1000 m

No.	Drilling, sampling & support equipment	No. of sets	Date	Ownership	Notes
6	Hanjin D&B 10D Drill	1	Rebuilt 2018	Geotech (Singapore)	Light duty track mounted mineral exploration and heavy duty geotechnical exploration drill rig NQ wireline drilling capability to 500 m
7	Skid mounted drills and water pumps	4	New & 2016	Geotech (Vietnam)	High quality man-portable drills and pumps of Chinese manufacture for remote difficult access site exploration
8	Single, double and triple tube core barrels	10	2015 & 2018	Geotech (Singapore)	Appropriate sampling equipment is used to routinely achieve > 90 % recovery
9	Fixed piston samplers and Mazier samplers	6	2016 & 2018	Geotech (Vietnam)	Various kinds of fixed piston samplers and Mazier samplers are available for undisturbed soil sampling depending on the soil being sampled

#### ***Transportation capability and assets***

No.	Support equipment	No.	Date	Ownership	Notes
1	Ford 4WD pickup trucks & Toyota Land cruiser	3	2009, 2011 & 2018	Geotech (Singapore, Vietnam, Laos)	Used for transport of engineers and drilling crews and equipment to and from work sites; and to support field activities

#### ***Instrumentation capability and assets***

No.	Instrumentation capability	No. of sets	Date	Ownership	Notes
1	Inclinometer probe, cable, casing and accessories	4	2008 - 2017	Group of companies	Cable lengths to 150 m Inclinometer casing stocked in container size quantities
2	Magnetic extensometer	2	2009 - 2017	Group of companies	For settlement monitoring
3	Strain gage testing: Readout and welding	4	New 2011	Group of companies	For structural testing
4	Vibrating wire (VW) sensor readout	3	2008 – 2017	Group of companies	For vibrating wire piezometers and other vibrating wire transducers
5	Anchor tests	4	2010 & 2011	Geotech (Singapore)	High quality load cells and Vishay readout units are used

No.	Instrumentation capability	No. of sets	Date	Ownership	Notes
6	Data acquisition	2	2009 - 2011	Geotech (Singapore)	Campbell Scientific data loggers, multiplexers, with VW interfaces
7	Water level indicator	4	2015 & 2017	Group of companies	For water level monitoring

***Geotechnical field testing and sampling capability and assets***

No.	In situ testing capability	No. of sets	Date	Ownership	Notes
1	Cone penetration testing - Piezo cone 10 ton capacity	2	New 2011	Group of companies	A. P. van den Berg, Holland Pushed using DeltaBase drill rigs
2	PQ & HQ & NQ packer test equipment	4	2015 & 2018	Group of companies	GeoPro Packer, Belgium; with automatic data logging system by DAT Instruments, Italy
3	Field point load tester	2	2014	Geotech (Singapore)	The Geotechnical Systems Australia
4	Geophysical - Borehole Survey Camera	2	2010 & 2011	Sub-contractor	Equipment and technicians provided by specialist sub-contractors acting as strategic partners
5	Geophysical - Resistivity	2	2015 - 2017	Sub-contractor	Equipment and technicians provided by specialist sub-contractors acting as strategic partners
6	Geophysical - Seismic	2	2016 - 2018	Sub-contractor	Equipment and technicians provided by specialist sub-contractors acting as strategic partners
7	Geophysical – Ground Penetrating Radar	2	2010	Sub-contractor	Equipment and technicians provided by specialist sub-contractors acting as strategic partners