



**PERSATUAN
PENYIASAT TAPAK
MALAYSIA
THE MALAYSIAN SITE INVESTIGATORS
ASSOCIATION**

SCHEDULE OF RATES 2017



**Management
Systems
ISO 9001
ISO 17025**

**Standards
BS EN ISO
22475
14688-2**

**SI Work
Requirements
MS 2038
BS 5930**

**Contractor
Registration
CIDB
Personnel Skills
& Green Cards**

**Test Methods
AS
BS 812
BS 882
GB/T 50123**

**Test Methods
MS 1056
BS 1377**

**Test Methods
ASTM
STP**

Geotechnical Testing Equipment & Instrument Supplies & Services

***Sole Representative in Malaysia for following Field & Laboratory
Geotechnical Testing Equipment Manufacturers:***

- 1. GDS INSTRUMENTS LTD UK**
- Computerised Triaxial
- 2. RST INSTRUMENTS LTD CANADA**
- Geotechnical Instrumentation
- 3. GEONOR A/S NORWAY**
- Geonor Vane & Field Testing Equipment
- 4. GEOTOMOGRAPHIE GMBH**
- Crosshole Seismic Tomography
- 5. VJ TECH UK**
- Laboratory Soil Testing Equipment
- 6. APPLIED RESEARCH ASSOCIATES, INC USA**
- Piezocone & CPT
- 7. APAGEO SEGELM SA FRANCE**
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- 8. PALER SA SWITZERLAND**
- Marchetti Dilatometer
- 9. CAMPBELL SCIENTIFIC AUSTRALIA**
- Geotechnical Instrumentation Telemetry Data Logging
- 10. TML JAPAN**
- Datalogging, Transducer & Strain Gauge
- 11. GEOMIL EQUIPMENT BV NETHERLANDS**
- Piezocone & CPT
- 12. PILETEST.COM UK**
- Pile Crosshole Sonic Logging and PIT
- 13. PROFOUND NETHERLANDS**
- Instrumentation and Vibration Monitoring
- 14. OZ OPTICS CANADA**
- Fiber Optic Distributed Strain & Temperature Sensors



**GDS INSTRUMENTS SDN BHD
RST INSTRUMENTS (M) SDN BHD
GEOMIL ASIA SDN BHD
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124, Jalan Kapar 27/89, Section 27, Taman Alam Megah, 40400 Shah Alam, Selangor.
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www.gdsi.com.my www.webdatamonitoring.com



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Acknowledgement for Cover Page

The MSIA Council wishes to express its sincere appreciation for the contributions made to the Cover Page. The MSIA logo, name and background was retained from SOR 2007. The honeycomb shape with names of test standards and relevant documents was contributed by our Vice-President, Dr Wong Kim Yuen. The photograph on grade 6, 5, 4 soil/rock was contributed by our Secretary, Tuan Hj Wan Mohamed Nizam Bin Wan Isa, from his personnel collection. The photograph shown factured granite taken in a borehole using Borehole Televiewer was contributed by our President, Mr Choong Pek Kem. Comments and feedbacks from other council members before finalization the Cover Page are also appreciated.

MESSAGE FROM THE PRESIDENT, MSIA

Welcome to the MSIA Schedule of Rates (SOR) 2017. This is the 1st revision to SOR 2017. The SOR is a guide for users of site investigation services based on the prevailing costs in 2017.

The association through its activities over the last 17 years (2000 to 2017) in training programmes, participation in Construction Industry Development Board (CIDB) National Occupational Skill Standards (NOSS) Development, CIDB Malaysia Standards Committee and joint activities with Institute of Engineers Malaysia (IEM) and Geological Society Malaysia (GSM) has established MSIA as the National body representing Site Investigators in the country.

The main issue at hand is to improve the quality of site investigations amongst members. A common complaint by Consultant Engineers is the inability of SI Contractors to obtain quality disturbed and undisturbed samples from boreholes. 'No recovery' or 'low recovery' from SPT, UD, Piston, Maizer or other sampling techniques is frustrating for Engineers. We need to improve our drillers' skills and innovate or adopt new sampling techniques, like the Gel-Push sampler and Resonance sampler.

We have embarked on a long term plan to achieve this objective with the following:-

- (1) Participation in the CIDB Development of National Skill Standards (NOSS) for Site Investigation Personnel.
- (2) Development of CIDB Training Module for SI Personnel.
- (3) Establishment of MSIA Training Centre for the continuous Training of SI Personnel.
- (4) Accreditation of SI Personnel by CIDB.
- (5) Accreditation of SI Contractors by CIDB.

On short term plan, we will continue with the following activities:-

- (A) Cultivate professionalism amongst MSIA members.
- (B) Training of SI personnel by our Training Committee.
- (C) Participate in joint Seminars with IEM, GSM, CIDB, JKR and Ikram.
- (D) Participate in CIDB activities related to site investigation.
- (E) Impress upon Consultant Engineers to supervise all site investigation projects as they are ultimately professionally liable for the safety and adequacy of constructions which are designed and constructed using the results from site investigations.
- (F) Impress upon Members, Consultant Engineers and Employers to encourage good SI practice and emphasis on training for all staff involved with SI.

MSIA has made progresses in the improvement in the SI industry. In collaboration with CIDB, we are progressing towards accreditation of SI Personnel and SI Contractors. We have successfully conducted the Training The Assessors (TTA) in collaboration with CIDB, JKR and IKRAM. Accreditation of SI teams from SI companies by CIDB has commenced and on-going.

Accreditation of SI teams or companies does not necessary mean that SI works will automatically bring about compliance SI practice. It only mean that these accredited SI teams can produce compliance SI work.

The product of site investigation is not tangible as compared to other products like food, furniture or electronics where we can compare, examine, test for compliance and finally choose to buy the product. The product of a site investigation is presented in the form of a factual report with data of boreholes consisting of borelogs,

samplings and test results. In the process of testing to gather data the evidence (samples) are destroyed. While we can duplicate tangible products by thousands or millions, the results of 2 boreholes are not likely to be identical even though they may be just metres apart. Therefore, it is very important that personnel involved in acquiring site and laboratory data are adequately trained, experienced and reasonably paid.

What is the reasonable cost for site investigation works? The current practice is by a tender or quotation process with bids put in by parties rarely pre-qualified for competence, where the lowest tender is normally awarded the job, a common practice in the construction industry. But, site investigation works is not the same with other construction works as the site investigation product or 'Factual Report' can still be contrived with less input or no input at all. Because of this, there are site investigation contractors who tender very low, well below cost, to get certain jobs which are not expected to be supervised. We must remind users here that with low rates and without proper supervision will likely attract SI contractors with inclinations towards producing 'FICTITIOUS REPORT'.

Paying reasonable prices alone does not guarantee you proper site investigation job, but we believe that you will certainly get one if you adhere to the following:-

- (a) Register a pool of credible SI contractors, assess their performance regularly and blacklist non-performers. Report blacklisted SI Contractor to the MSIA for further action.
- (b) The Engineer must supervise the SI Works (site and laboratory) fulltime. This is in line with Board of Engineer's Circular No. 4/2005. The Engineer needs to specify and direct the SI to acquire the necessary data he requires to support his engineering design efforts.
- (c) SI contractors must submit field borelogs and laboratory test data regularly to the Engineer.
- (d) SI report should include original field and laboratory raw data.
- (e) MSIA Schedule of Rates should be used to estimate cost of SI jobs.

On behalf of the Council, I would like to take this opportunity to thank all users of SI services, advertisers and the Publication Committee for contributing towards the success of the implementation of the MSIA SOR 2017.

Thank you.


CHOONG PEK KEM
President,
The Malaysian Site Investigators Association (MSIA)



COUNCIL MEMBERS FOR 2000 / 2001

President	:	Roslan Bin Hassan	(Novatel Sdn Bhd)
Vice-President	:	Tung Nai Choy	(Sealand Drillers (M) Sdn Bhd)
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Asst. Secretary	:	Wan Zainuddin Bin Wan Omar	(Soil Centralab Sdn Bhd)
Council Members	:	Ng Eng Leong	(Gagasan Teguh Sdn Bhd)
	:	Lim Kim Hock	(IES Integrated (M) Sdn Bhd)
	:	Low Kai Seng	(Interfield Sdn Bhd)
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Past President	:	Lee Soon Hing	(Inter Soil Engineering Sdn Bhd)

COUNCIL MEMBERS FOR 2004 / 2005

President	:	Tung Nai Choy	(Sealand Drillers (M) Sdn Bhd)
Vice-President	:	Ng Chak Ngoon	(Subsurface Engineering Sdn Bhd)
Secretary	:	Hamidan Bin Mat Wajib	(Soil Centralab Sdn Bhd)
Treasurer	:	Safarudin Bin Mat Tahir	(BTS Engineering Sdn Bhd)
Asst. Secretary	:	Wan Mohamed Nizam Bin Wan Isa	(Team Drillers Sdn Bhd)
Council Members	:	Koo Kean Siang	(Geolab (M) Sdn Bhd)
	:	Chia Kim Seong	(Strata Drill Sdn Bhd)
	:	Khoo Teng Lye	(Master Testing Services Sdn Bhd)
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Past President	:	Lee Soon Hing	(Inter Soil Engineering Sdn Bhd)

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Treasurer	:	Yong Tai Fatt	(Progress Drilling Sdn Bhd)
Asst. Secretary	:	Koo Kean Siang	(Geolab (M) Sdn Bhd)
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	:	Ramachandran	(North Soil Engineering Sdn Bhd)
	:	Lim Kim Hock	(IES Integrated (M) Sdn Bhd)
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	:	Choong Pek Kem	(Test Sdn Bhd)
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Treasurer	:	Hamidan Bin Mat Wajib	(Soil Centralab Sdn Bhd)
Asst. Secretary	:	Chia Kim Seong	(Strata Drill Sdn Bhd)
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	:	Nik Adlin Bin Nik Yusoff	(Carita Sdn Bhd)
	:	William Pang Kong Thean	(Global Geotechnics Sdn Bhd)
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Treasurer	:	Yong Tai Fatt	(Progress Drilling Sdn Bhd)
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Asst. Secretary	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
Treasurer	:	Hamidan Mat Wajib	(Soil Centralab Sdn Bhd)
Council Members	:	Yong Tai Fatt	(Progress Drilling Sdn Bhd)
	:	Wee Son Teck	(Test Technical Services Sdn Bhd)
	:	Chia Kim Seong	(Strata Drill Sdn Bhd)
	:	Wong Kim Yuen	(Soilpro Technical Services Sdn Bhd)
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President	:	Kim Lin Piew	(S & M Geotechnic Sdn Bhd)
Vice-President	:	Wong Kim Yuen	(Soilpro Technical Services Sdn Bhd)
Secretary	:	Wan Mohamed Nizam Bin Wan Isa	(Team Drillers Sdn Bhd)
Asst. Secretary	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
Treasurer	:	William Pang Kong Thean	(Global Geotechnics Sdn Bhd)
Council Members	:	Wee Son Teck	(Test Technical Services Sdn Bhd)
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Asst. Secretary	:	Daniel Ng Wai Yoong	(Soil Instruments (M) Sdn Bhd)
Treasurer	:	Koo Kean Sang	(Geolab (M) Sdn Bhd)
Asst. Treasurer	:	Pang Jen Yaw	(Global Geotechnics Sdn Bhd)
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		V V Lingam	(AGE Engineering)
		Yong Tai Fatt	(Progress Drilling Sdn Bhd)
		Supramaniam Sinnapillay	(Garuda Geotechnical Sdn Bhd)
Past President	:	Ng Chak Ngon	(Subsurface Engineering Sdn Bhd)

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Asst. Secretary	:	Daniel Ng Wai Yoong	(Soil Instruments (M) Sdn Bhd)
Treasurer	:	Yong Tai Fatt	(Progress Drilling Sdn Bhd)
Asst. Treasurer	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
Council Members	:	Ng Eng Leong	(Gagasan Teguh Sdn Bhd)
		Lim Kim Hock	(IES Integrated Sdn Bhd)
		Ramachandran Subramaniam	(North Soil Engineering (M) Sdn Bhd)
		Lee Kan Ching	(Maxi Mekar Sdn Bhd)
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Asst. Secretary	:	Lim Kim Hock	(IES Integrated Sdn Bhd)
Treasurer	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
Asst. Treasurer	:	Pang Jen Yaw	(Global Geotechnic Sdn Bhd)
Council Members	:	Johnny Then	(STL Geotechnical Engineering Sdn Bhd)
		Yeah Cheng Woh	(Strata Drill Sdn Bhd)
		Lee Kan Ching	(Maxi Mekar Sdn Bhd)
		Rathakrishnan	(RK Geotechnique Sdn Bhd)
		Nik Adlin Bin Nik Yusoff	(Carita Sdn Bhd)
Past President	:	Kim Lin Piew	(S & M Geotechnic Sdn Bhd)

PUBLICATION COMMITTEE

Chairman	:	Kim Lin Piew	(S & M Geotechnic Sdn Bhd)
Committee Members	:	Choong Pek Kem	(Test Sdn Bhd)
		Wong Kim Yuen	(Soilpro Technical Services Sdn Bhd)
		Wan Mohamed Nizam Bin Wan Isa	(Progeo Consult)
		AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)

TRAINING COMMITTEE

Chairman	:	Wong Kim Yuen	(Soilpro Technical Services Sdn Bhd)
Committee Members	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
		Wan Mohamed Nizam Bin Wan Isa	(Progeo Consult)
		Nik Adlin Bin Nik Yusoff	(Carita Sdn Bhd)

TECHNICAL COMMITTEE

Chairman	:	AL Ramanathan	(Sealand Drillers (M) Sdn Bhd)
Committee Members	:	Choong Pek Kem	(Test Sdn Bhd)
		Wong Kim Yuen	(Soilpro Technical Services Sdn Bhd)
		Wan Mohamed Nizam Bin Wan Isa	(Progeo Consult)

WORKSHOP ON MODULE DEVELOPMENT COMMITTEE FOR SITE INVESTIGATION TRADE (LEVEL 1)
(Bengkel Jawatankuasa Pembangunan Modul Latihan Bagil Bidang Site Investigation (Level 1))

DATE	VENUE	REMARKS
28/04/07	Coronet Hotel, Jalan Bukit Bintang, KL	Briefing
06/04/07 - 09/04/07	Eastin Hotel, PJ	Workshop
15/06/07 - 18/06/07	Eastin Hotel, PJ	Workshop
07/09/07 - 10/09/07	Holliday Villa Hotel & Suites, Subang Jaya	Workshop
02/11/07 - 05/11/07	Grand Seasons Hotel, KL	Workshop
27/11/07 - 01/12/08	Grand Seasons Hotel, KL	Workshop
08/05/08 - 12/05/08	Grand Seasons Hotel, KL	Workshop

WORKSHOP ON MODULE DEVELOPMENT COMMITTEE FOR SITE INVESTIGATION TRADE (LEVEL 2)
(Bengkel Jawatankuasa Pembangunan Modul Latihan Bagil Bidang Site Investigation (Level 2))

DATE	VENUE	REMARKS
06/10/08	Grand Seasons Hotel, KL	Briefing Session

Acknowledgement

The MSIA Council wishes to express its sincere appreciation and thanks to the following advertisers:-

- | | |
|-----------------------------------------------------|------------------------------------------|
| 1) GDS Instruments Sdn bhd | 13) Global Engineering Sdn Bhd |
| 2) G.N. Drill-Tech Trading Sdn Bhd | 14) Geodata Engineering Sdn Bhd |
| 3) Kiso-Jiban (Malaysia) Sdn Bhd | 15) RK Geotechnique Sdn Bhd |
| 4) Test Sdn Bhd | 16) Geospec Sdn Bhd |
| 5) Geolab (M) Sdn Bhd | 17) Drillquip Enterprise |
| 6) Soil Instruments (M) Sdn Bhd | 18) Pakatan Technology Resources Sdn Bhd |
| 7) STL Geotechnical Engineering Sdn Bhd / STL Group | 19) Geo Technology Resources Sdn Bhd |
| 8) Sealand Drillers (M) Sdn Bhd | 20) Carita Sdn Bhd |
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| 11) BTS Engineering Sdn Bhd | 23) IES Integrated (M) Sdn Bhd |
| 12) Strata Drill Sdn Bhd | |

ACCREDITATION OF SI PERSONNEL

Accreditation of SI Personnel is carried out jointly by CIDB, JKR, IKRAM and MSIA

DATE	TITLE	VENUE
19/09/12 - 21/09/12	Train The Trainers (TTT), Organized by CIDB M'sia. Dr Wong Kim Yuen (Soilpro Technical Services Sdn Bhd) & En Wan Mohamed Nizam Bin Wan Isa (Progeo Consult) successfully completed the course and were awarded certificates.	Carlton Holiday Hotel, Shah Alam
06/03/15	CIDB Module Development Work Shop - "Program Akreditasi Pekerja Mahir Penilaian Pretasi Untuk Pegawai Penilai Bidang Site Investigation" - Level 1 and Level 2.	Awana Genting
21/08/15 - 24/08/15	Program Akreditasi Pekerja Mahir Penilaian Pretasi Untuk Pegawai Penilai Bidang Site Investigation - Level 3.	Grand Seasons Hotel, KL
26/11/15	Program Akreditasi Pekerja Mahir Penilaian Pretasi Untuk Pegawai Penilai Bidang Site Investigation.	CIDB, PWTC

Train the Assessories (TTA) Workshop was held at Geotechnic, Ikram, Bangi (01/6/16 to 02/6/16)

The following members successfully completed Workshop and were award certificates.

- 1) Dr. Wong Kim Yuen (Soilpro Technical Services)
- 2) En. Wan Mohamed Nizam Bin Wan Isa (Team Drillers Sdn Bhd)
- 3) Mr. AL Ramananthan (Sealand Drillers (M) Sdn Bhd)
- 4) En. Nik Adlin Bin Nik Yusoff (Carita Sdn Bhd)
- 5) Mr. Johnny Then Yit Phin (STL Engineering Sdn Bhd)
- 6) Mr. Yong Tai Fatt (Progress Drilling Sdn Bhd)
- 7) Mr. Yeah Cheng Woh (Strata Drill Sdn Bhd)
- 8) Mr. Lim Yap Gim (IES Integrated Sdn Bhd)

The following were appointed by CIDB as Assessors

- 1) Dr. Wong Kim Yuen (Soilpro Technical Services)
- 2) En. Wan Mohamed Nizam Bin Wan Isa (Team Drillers Sdn Bhd)
- 3) Mr. AL Ramananthan (Sealand Drillers (M) Sdn Bhd)
- 4) En. Nik Adlin Bin Nik Yusoff (Carita Sdn Bhd)
- 5) Mr. Lim Yap Gim (IES Integrated Sdn Bhd)

The Examiners for TTA were:

- 1) Ir. Mohd Ali (JKR)
- 2) Ir. Hj Abdul Ghani Shaaban (IKRAM)
- 3) Mr. Choong Pek Kem (MSIA)

TRAINING/WORKSHOP CONDUCTED BY MSIA

DATE	TITLE	VENUE
28/04/07	CIDB Green Card Course	MSIA Training Room
08/06/07	CIDB Green Card Course	MSIA Training Room
21/07/12	CIDB Green Card Course	MSIA Training Room
22/10/08	Induction Course on SI Works-Fundamental & Practical (in collaboration with TNB / Carita Sdn Bhd)	Wisma TNB, Jalan Timur
07/11/09 - 11/11/09	Program Peningkatan Kemahiran Bidang Penyelidikan Tapak Untuk Politeknik. (In collaboration with CIDB / Politeknik)	Akademi Binaan Malaysia
11/04/12	Induction Course on SI Works-Fundamental & Practical (In collaboration with IEM (GETD)).	PJ Hilton, Petaling Jaya
25/04/12 - 26/04/12	Introduction To Site Investigation (For TNB Personnel). (In collaboration with K Builders Training & Consulting).	ILSAS, Bangi
13/05/17	Pre-assessment Workshop	MSIA Training Room
17/06/17	Pre-assessment Workshop	MSIA Training Room
23/12/17	Pre-assessment Workshop	MSIA Training Room

SEMINAR / WORKSHOP ORGANISED BY MSIA

DATE	TITLE	VENUE
13/10/08 - 14/10/08	Workshop and Exhibition On Site Investigation. (In collaboration with IEM (GETD)).	Armada Hotel, PJ
26/09/12	Forum on Subsurface Investigation. (In collaboration with IEM (GETD)).	Tan Sri Prof. Chin Fung Kee Auditorium, Wisma IEM
21/10/15 - 22/10/15	Advancement in Geotechnical Investigation and Instrumentation Works. (In collaboration with IEM (GETD)).	Four Points by Sheraton, Puchong
29/11/16	Geotechnical Techniques and Experiences in Ground Engineering Applications. (In collaboration with IEM (GETD)).	PJ Hilton, Petaling Jaya
30/03/17	Geotechnical Instrumentation Measuring and Creating Understanding in an Uncertain World. (In collaboration with GDS/RST/CAMPBELL SCIENTIFIC/UTP).	The Place@One City

GET TO KNOW MEMBERS DINNER

DATE	VENUE
04/12/09	Eastin Hotel
08/11/14	The Terrace Restaurant, The Royale Bintang, The Curve Hotel

MSIA REPRESENTATIVES IN NATIONAL COMMITTEES

SIRIM REVIEW OF MS 2038:2006 'SITE INVESTIGATIONS - CODE OF PRACTICE' TECHNICAL COMMITTEE ON GEOTECHNICAL WORKS (TC/D/17)

LIST OF MEMBERS

- | | |
|-----------------------------------------------------|---------------------------------------------------------------|
| 1) Association of Consulting Engineers Malaysia | 7) Master Builders Association Malaysia |
| 2) Construction Industry Development Board Malaysia | 8) Jabatan Kerja Raya Malaysia |
| 3) Department of Irrigation and Drainage Malaysia | 9) The Malaysian Site Investigators Association (MSIA) |
| 4) Minerals and Geoscience Department Malaysia | 10) The Institution of Engineers, Malaysia |
| 5) Ikram Engineering Services Sdn Bhd | 11) Universiti Teknologi Mara |
| 6) Institut of Geology, Malaysia | 12) Universiti Teknologi Malaysia |
| Representative : Dr. Wong Kim Yuen | (Soilpro Technical Services) |
-

SIRIM TECHNICAL COMMITTEE ON GEOTECHNICAL WORKS WORKSHOP AT CONCORDE HOTEL, SHAH ALAM (10/8/15 - 11/8/15)

- | | | |
|--------------------|--------------------------|--------------------------------|
| Facilitator : | Dr. Wong Kim Yuen | (Soilpro Technical Services) |
| Co-opted Members : | Mr. Choong Pek Kem | (Test Sdn Bhd) |
| | En. Mohd Imran Idris | (Soil Centralab Sdn Bhd) |
| | Mr. AL Ramanathan | (Sealand Drillers (M) Sdn Bhd) |
| | Mr. Johnny Then Yit Phin | (STL Engineering Sdn Bhd) |
-

SIRIM WG 1 - REVISION OF MS 2038 (WG/D/17-3) BS5930:2015 SECTIONS 4, 5, 6, 7, 8 & 9 REVIEW

- | | | |
|--------------------|--------------------------|--------------------------------|
| Chairman : | Dr. Wong Kim Yuen | (Soilpro Technical Services) |
| Co-opted Members : | Mr. Choong Pek Kem | (Test Sdn Bhd) |
| | Mr. AL Ramanathan | (Sealand Drillers (M) Sdn Bhd) |
| | Mr. Johnny Then Yit Phin | (STL Engineering Sdn Bhd) |
-

SIRIM WG 2 - REVISION OF MS 2038 (WG/D/17-4) BS5930:2015 SECTIONS 1, 2, 3, 10 & 11 REVIEW

- | | | |
|--------------------|--------------------|--------------------------------|
| Co-opted Members : | Mr. Choong Pek Kem | (Test Sdn Bhd) |
| | Mr. AL Ramanathan | (Sealand Drillers (M) Sdn Bhd) |
-

ACEM SI COMMITTEE ON THE IMPROVEMENT OF SI WORKS (2015)

- | | |
|------------------|----------------------------------------------------------------------------------------|
| Representative : | Mr. Johnny Then Yit Phin (STL Engineering Sdn Bhd) / Mr. Choong Pek Kem (Test Sdn Bhd) |
|------------------|----------------------------------------------------------------------------------------|



GROUP PHOTOGRAPH TAKEN AT 18TH AGM HELD ON 25-03-2017 AT
BUKIT JALIL GOLF AND COUNTRY RESORT



VICE PRESIDENT DR. WONG PRESENTED MEMBERSHIP
CERTIFICATE TO IKRAM AS OUR NEW MEMBER



16TH COUNCIL MEETING HELD ON 31/10/2017 WITH GOOD ATTENDANCE

TRAIN THE ASSESSORS (TTA) HELD AT IKRAM GEOTECHNICS , BANGI ON 01/6/16 TO 02/6/2016



GROUP PHOTOGRAPH OF PARTICIPANTS AND EXAMINERS



REPRESENTATIVES (L to R) FROM JKR, CIDB, MSIA, IKRAM



Wan Mohamed, MSIA Secretary recieved certificate from Puan Azizah Mohd Yusuf, CIDB



Choong Pek Kem, MSIA President, received token of appreciation from Ir. Haji Abdul Ghani Shaaban, IKRAM



PRE-ASSESSMENT WORKSHOP CARRIED OUT AT MSIA TRAINING ROOM ON 13/05/2017

LIST OF MSIA ORDINARY MEMBERS

NO.	COMPANY NAME	ADDRESS	NAME	MB'SHIP NO	TEL	FAX	H/P	E-MAIL
1	AGE ENGINEERING	NO. 11A, JLN SC5 / A, PUSAT PERINDUSTRIAN SG CHUA, 43000 KAJANG, SELANGOR.	V.V LINGGAM/ KONG YEONG	M 0052	03-5541 1646	03-5545 1695	019-281 0691	vlinggam@yahoo.com ageengineering@ymail.com
2	BTS ENGINEERING SDN BHD	NO. 42A, LORONG SETIA 1A, TAMAN SETIA, JALAN JOHAN SETIA, 41200 KLANG, SELANGOR	SAFARUDDIN BIN MAT TAHIR	M 0009	03-5162 5141 03-5162 5153 03-5162 4788	03-5162 5226	012-202 6050	safarudinbts@gmail.com btsepetronas@yahoo.com btsebsb96@gmail.com
3	CARITA SDN BHD	3-65-C, JALAN D2/3, DESA AMAN PURI, KEPONG, 52100 KUALA LUMPUR	NIK ADLIN BIN NIK YUSOFF	M 0029	03-6277 8511	03-6277 8512	019-387 3177	caritasdnbhd@gmail.com
4	C PHI ENGINEERING SERVICES SDN BHD	NO. 9/2, JLN 11 / NO. 62A, BANDAR MANJALARA, KUALA LUMPUR.	PN SABARIAH	M 0042	03-62803825	03-62803802	019-646 3995 019-315 7841	pzms_1@yahoo.com
5	CITY DRILL ENGINEERING	NO. 12, JALAN 23/26, TAMAN SRI RAMPAI, SETAPAK, 53300 KUALA LUMPUR	WONG KANG WAH	M 0043	03-4021 4550		012-212 5276	city-drill@hotmail.com
6	DEEP ROCKS SDN BHD	NO 145, TINGKAT BAWAH, KOMPLEKS ALOR STAR, LEBUHRAYA DARULAMAN, 05100 ALOR STAR, KEDAH DARUL AMAN.	AHMAD BIN MAIDIN MASTAN	M 0007	04-7309325	04-7309325	019-4102957	info@deeprocks.asia info.drbs@gmail.com
7	GAGASAN TEGUH SDN BHD	NO. 29-1 JALAN PUJ 3/5, TAMAN PUNCAK JALIL, BANDAR PUTRA PERMAI, 43300 SERI KEMBANGAN, SELANGOR	NG ENG LEONG	M 0022	03-8944 0385 03-8944 9704	03-8944 0325	012-366 6343	mail@gagasanteguh.com.my nel@gagasanteguh.com.my www.gagasanteguh.com.my
8	GARUDA GEOTECHNICAL SDN BHD	NO. 28G, JALAN 8, TAMAN PUTRA KAJANG, PUTRA BUSINESS CENTRE, KAJANG, 43000 SELANGOR	SUPRAMANIAM SINNA PILLAY	M 0048	03-87337377	03-87344586	019-312 7442	garuda.geo96@gmail.com
9	GEOCRETE SDN BHD	NO.22, JALAN P4/8, SECTION 4, BANDAR TEKNOLOGI KAJANG, 43500 SEMENYIH, SELANGOR.	LEE KAI HING	M 0051	03-8724 2829	03-8724 2824	016-2181505	geocrete2012@gmail.com geocrete2011@gmail.com
10	GEODATA ENGINEERING SDN BHD	NO. 15-1, JLN USJ 1/1B, REGALIA BUSINESS CENTRE, TAMAN SUBANG MEWAH, 47500 SELANGOR	STANLEY CHAI YOON HENG	M 0040	03-8023 2782	03-8023 4081	012-3172050	geodatamal@gmail.com stanleychai2050@gmail.com
11	GEOLAB (M) SDN BHD	NO.380-380A, JALAN SIMBANG, TAMAN PERLING, JOHOR BHARU, 81200 JOHOR BHARU	KOO KEAN SIANG	M 0026	07-236 4932	07-236 4931	016-710 6568	koo@geolab-sdn-bhd.com
12	GEOSPEC SDN BHD	LOT 587-588, LORONG BLACKSMITH 2B, OFF JALAN PETANAK, 93100 KUCHING, SARAWAK	HUONG TUONG ING (KEVIN HUONG)	M 0021	082-428 695	082-252 516	019-886 5825 019-889 2993	geospec@gmail.com kelvin@geospec.com.my sim@geospec.com.my www.geospec.com.my
13	GLOBAL GEOTECHNICS SDN BHD	NO. 10 & 11, JALAN TK 5/42, KINRARA, INDUSTRIAL PARK, 13 KM, JALAN PUCHONG, 47190 SELANGOR.	WILLIAM PANG (v-e)	M 0028	03-8075 4623 03-8075 4628	03-8080 3309	012-209 5959	ggeo_3638@yahoo.com.my
14	HANDALAN ENTERPRISE SDN BHD	NO.1020, SIMPANG EMPAT, SULTAN MANSOR, JALAN KELANTAN, K.TERENGGANU 20050 TERENGGANU	WAN SHOHAIIRI BIN WAN SHARIF	M 0035	09-623 2099	09-622 9905	013-921 3838	handalan07@gmail.com
15	IDEAL ENGINEERING LABORATORY SDN BHD	NO.15 JALAN TK 5/42, KINRARA INDUSTRIAL PARK, 13 KM, JALAN PUCHONG, PUCHONG, 47100 SELANGOR	DAVID CHOONG WEE KONG	M 0019	03-8075 1087	03-8075 1215	012-298 3963	idealenglab7@gmail.com
16	IES INTEGRATED (M) SDN BHD	NO. 19B & 21B, TINGKAT 1, JALAN 6/4, TAMAN COMMERCIAL PANDAN INDAH, 55100 KUALA LUMPUR.	LIM KIM HOCK	M 0014	03-4296 1010 03-4293 3011	03-4287 2925	019-354 1133	ies_1010@yahoo.com
17	IKRAM ENGINEERING SERVICES SDN BHD	GEOTECHNICAL DEPARTMENT, ICES BLOCK 6, UNIPARK SURIA, JALAN IKRAM-UNITEN, 43000 KAJANG, SELANGOR	IR HJ ABDUL GHANI SHAABAN	M 0056	03-8738 3323	03-8926 6289	012-207 3715	ies@ikram.com.my ghani@ikram.com.my

NO.	COMPANY NAME	ADDRESS	NAME	MB'SHIP NO	TEL	FAX	H/P	E-MAIL
18	INTER SOIL ENGINEERING SDN BHD	NO. 3-65-B, JALAN DESA 2/3, DESA AMAN PURI, KEPONG, 52100 SELANGOR	LEE SOON HING	M 0006	03-6277 8513	03-6277 8515	012-201 3811	intersoileng@gmail.com
19	JARABUMI BERGABUNG SDN BHD	LOT. 9, 1 ST FLOOR, BLK SH-3, SURIA SHOP OFFICE, PHASE 1, JALAN PENAMPANG LAMA, 89500 SABAH	LU POI EK	M 0046	088-723193 088-722193	088-728193	019-881 3833	jarabumi@yahoo.com
20	KISO-JIBAN (MALAYSIA) SDN BHD	NO.3 JALAN KENARI 17D, BANDAR PUCHONG JAYA, 47100 PUCHONG SELANGOR	GOH AIK HWA	M 0053	03-80761377	03-8076 1376	012-331 0123	goh.aikhwa@kiso.com.my kiso-jiban@kiso.com.my
21	MAJUMEC BINA SDN BHD	NO.31-2, JALAN CEMPAKA SD 12/2, BANDAR SRI DAMANSARA, 52200 KUALA LUMPUR	GOH KIM SING	M 0023	03-6273 1229	03-6272 9929	012-231 1929	majumecbina@yahoo.com gohkimsing@yahoo.com
22	MASTER TESTING SERVICES SDN BHD	NO. 21, JALAN 2/128, HAPPY GARDEN, JALAN KUCHAI LAMA, 58200 KUALA LUMPUR	KHOO TENG LYE	M 0017	03-7983 6963	03-7981 4568	012-320 9299	tenglyekhoo@gmail.com mastertestingervices@gmail.com
23	MAXI MEKAR SDN BHD	NO.22, JALAN TK 5/42, KINRARA INDUSTRIAL PARK, 13KM JALAN PUCHONG, 47190 PUCHONG, SELANGOR	LEE KAN CHING	M 0050	03-8075 7865	03-8075 7965	013-366 3229	leekanching@yahoo.com info@mmekar.com
24	MEGASOIL ENGINEERING SDN BHD	NO.11-B, JALAN 1/3 BUKIT RAHMAN PUTRA, SUNGAI BULOH, 47000 SELANGOR	DESMOND LOH WAI HOE / CHONG MOON HAR	M 0044	03-61403176	03-6140 3345	012-297 5595	megasoil@gmail.com
25	MMA TECH ENGINEERING SDN BHD	D-1-6, JALAN BG 3B/6, BANGI GATEWAY 3B, 43650 BANDAR BARU BANGI, SELANGOR	ZAKARIA ABDULLAH	M0055	03-8925 2691		019-652 6052	mmatechenineering@gmail.com
26	NORTH SOIL ENGINEERING (M) SDN BHD	NO. 7-3, JALAN METRO PERDANA BARAT, 1, TAMAN USAHAWAN KEPONG UTARA , 52000 KUALA LUMPUR	RAMANCHANDRAN SUBRAMANIAM	M0041	03-6252 2010	03-6252 2030	019-262 6911	northsoiles@yahoo.com aschaan@northsoil.com
27	PACIFIC GEOSCIENCE (M) SDN BHD	NO. 41, 2ND FLOOR, JALAN USJ 10/1D,UEP SUBANG JAYA, 47620 SELANGOR.	WONG TING KUN	M 0049	03-5638 2568	03-5638 2569	016-229 5279	info@pacgeo.com.my
28	PAKATAN GEO SERVICE SDN BHD	NO. 6, JALAN TIMAH 1, TAMAN SRI PUTRI, JOHOR, 81300 JOHOR BHARU	MOHD HAIRI	M 0038	07-556 8872	07-557 8787	019-770 4131	pgssb@yahoo.com
29	PAKATAN TENAGA SDN BHD	LOT 5431, JALAN J9, FASA 6, TAMAN MELAWATI, 53100 KUALA LUMPUR	MOHD FAUZI BIN HASSAN	M 0024	03-41611135	03-4105 2054	019-215 1969	ptsbf6@gmail.com ptsb86@gmail.com
30	PROGRESS DRILLING SDN BHD	UNIT D-1-18, BLOK D, APARTMENT RESIDENSI BISTARIA, JLN HULU KELANG, TAMAN UKAY BISTARI, 68000 AMPANG, SELANGOR.	BERNARD YONG TAI FATT	M 0013	03-4162 4438	03-4162 4437	012-213 2522	progressdrilling@gmail.com
31	PROGEO CONSULT	NO.3, JALAN RAMPASARI 3E, BANDAR SUNGAI BUAYA, 48010 RAWANG, SEANGOR DARUL EHSAN	WAN MOHAMED NIZAM BIN WAN ISA	M 0020	013-272 1003		013-272 1003	wannizam@gmail.com
32	PROPOCON SDN BHD	NO.55, JALAN KEMBOJA, TAMAN MEWAH, BATU GAJAH 31000 PERAK	SAYAKOBI	M 0018	05-366 4682	05-366 6821	012-510 2418	propocongr@gmail.com
33	RK GEOTECHNIQUE SDN BHD	NO. 5-3A, JALAN DESA 9/4, BANDAR COUNTRY HOME, RAWANG, 48000 SELANGOR	RATHAKRISHNAN	M 0016	03-6733 0127	03-6733 1627	019-322 1482	rksoil@hotmail.com
34	S & M GEOTECHNIC SDN BHD	NO. 1, JALAN 7/155, BUKIT OUG INDUSTRIAL PARK, 58200 KUALA LUMPUR	KIM LIN PIEW	M 0027	03-7781 7996	03-7781 8030	012-213 7638	lpkim@smlab.com.my smlab@po.jaring.my
35	SEALAND DRILLERS (M) SDN BHD	NO. 17A, JALAN AWAN HIJAU, TAMAN OUG, BATU 5, JALAN KLANG LAMA 58200 K.LUMPUR	AL RAMANATHAN / TUNG B Y	M 0008	03-7984 7299	03-7984 7298 03-7984 7292	019-260 3362	ramasld@yahoo.com sealandm@gmail.com
36	SEKATA BINA SDN BHD	NO. 2731-B, JALAN PERMATA 4, TAMAN PERMATA, ULU KLANG, 53300 KUALA LUMPUR	OOI HOOW KIONG	M 0039	03-4108 3887 /997	03-4108 9118	013-354 6826	ooihk2000@yahoo.com
37	SOIL CENTRALAB SDN BHD	NO.3 JALAN P/8, KAWASAN PERINDUSTRIAN MIEL, BANDAR BARU BANGI, 43650 SELANGOR	MOHD IMRAN BIN IDRIS	M 0004	03-8925 9370	03-8925 9373	012-202 6046	imran.idris@uemedgenta.uem net.com

NO.	COMPANY NAME	ADDRESS	NAME	MB'SHIP NO	TEL	FAX	H/P	E-MAIL
38	SOIL INSTRUMENTS (M) SDN BHD	NO. 12, JALAN UTARID U5/14, SEKSYEN U5, 40150 SHAH ALAM, SELANGOR.	DANIEL NG WAI YOONG	M 0037	03-7859 1352 03-7959 1355	03-7859 1566	012-209 8251	soil@soil.com.my daniel@soil.com.my www.soil.com.my
39	SOIL MECHANIC SDN BHD	NO.7, LORONG TALANG 1, PRAI GARDEN, PRAI, 13600 PENANG	TEH TIO HEE	M 0045	04-390 9279	04-399 1893	012-486 9279	soilmechsb@gmail.com
40	SOILPRO TECHNICAL SERVICES SDN BHD	NO. 16, JALAN TIB-1/17, TAMAN INDUSTRI BOLTON, BATU CAVES 68100 SELANGOR	WONG KIM YUEN	M 0012	03-6188 6975 03-6188 9964	03-6185 5903	012-371 7978	drwongky@ymail.com soilpro@gmail.com
41	SOILS & FOUNDATIONS SDN BHD	NO. 23, JALAN DESA, TAMAN DESA, OFF JALAN KLANG LAMA, 58100 KUALA LUMPUR	KOR BENG	M 0003	03-7982 3366	03-7982 5052	012-206 9593	kor_beng@yahoo.com
42	STL GEOTECHNICAL ENGINEERING SDN BHD	LOT A2, FU GUAN INDUSTRIAL CENTRE, JALAN BUNDUSAN, 89500 PENAMPANG, KOTA KINABALU, SABAH.	JOHNNY THEN (Ms. Yee)	M 0047	088-715 970	088-720 853	016-833 9993	jrthen@gmail.com stlgesb@gmail.com www.stlgroup.com.my
43	STRATA DRILL SDN BHD	NO.22 JALAN P4/8 SEK.4, BANDAR TEKNOLOGI, KAJANG 43500 SEMENYIH, SELANGOR	CHIA KIM SEONG, YEAH C.W	M 0025	03-8724 1622	03-8724 0622	012-225 6412 019-337 6225	geeta@stratadrill.com
44	STL DRILLING SDN BHD	LOT A2, FU GUAN INDUSTRIAL CENTRE, JLN BUNDUSAN, 89500 PENAMPANG, SABAH.	JOHNNY THEN YIT PHIN	M 0054	088 - 722 799	088 - 720 853	016-833 9993	stlgesb@gmail.com
45	SUBSURFACE ENGINEERING SDN BHD	NO. 13, JALAN ANGGERIK MOKARA 31/57, KOTA KEMUNING, 40460 SHAH ALAM, SELANGOR	NG CHAK NGOON (Ms.Kumari)	M 0002	03-5121 7312 016-222 5047 (Office)	03-5121 7743	016-222 5046 (Kong) 016-222 5042 (Ng)	asubby2000@yahoo.com enquiry.sesb@gmail.com www.subsurface.com.my
46	TATCOM ENGINEERING SDN BHD	NO. 24C, JALAN PETALING UTAMA 9, P.U, BT 7, JALAN KLANG LAMA, PETALING JAYA 46000 SELANGOR	CHAU YIP KEE (Ms.Toh)	M 0030	03-7783 8420	03-7783 9766	012-208 1600	tactcom_tesb@yahoo.com
47	TECHNIC FIELD SERVICES SDN BHD	NO.75, JALAN PSK 10, PUSAT PERDAGANGAN, SERI KEMBANGAN, S.K, 43300 SELANGOR	FOO TIAN SANG	M 0032	03-8942 1339	03-89423119	019-228 6157	technicfield@yahoo.com
48	TEST SDN BHD	NO. 3 & 5, JALAN ANGGERIK MOKARA 31/51, KOTA KEMUNING, SEKSYEN 31, 40460 SHAH ALAM, SELANGOR	CHOONG PEK KEM	M 0034	03-5122 3688	03-5121 1688	012-329 6687	choongpekkem@gmail.com sectestsb@gmail.com www.testsb.com.my
49	TEST TECHNICAL LABORATORY SDN BHD	NO.23, JALAN DESA, TAMAN DESA, OFF JALAN KLANG LAMA, 58100 KUALA LUMPUR	WEE SOON TECK (Ms.Lim)	M 0033	03-7981 8173	03-7981 2767	012-210 0206	test@tllsb.com.my
50	UNITED SOIL SDN BHD	NO. 9-1 JALAN 2/90, TMN PERTAMA CHERAS, 56100 KUALA LUMPUR	MOHAMAD ZIKRI ZAINUDIN, DYLAN WONG	M 0015	03-9284 5007	03-9284 5711	012-295 3291	unitedsoilsdnbhd@gmail.com

LIST OF HONORARY MEMBERS

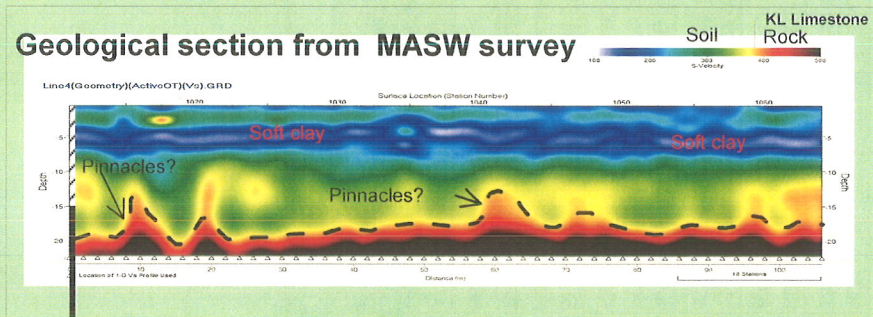
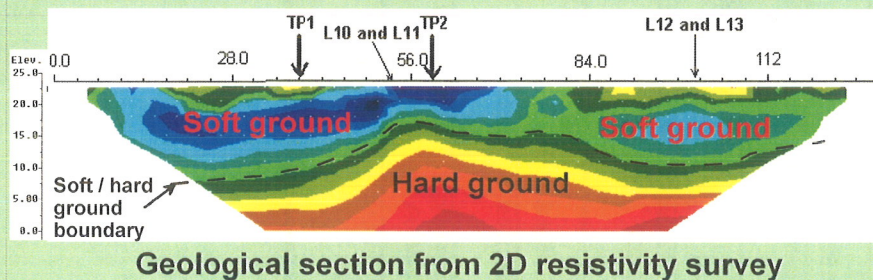
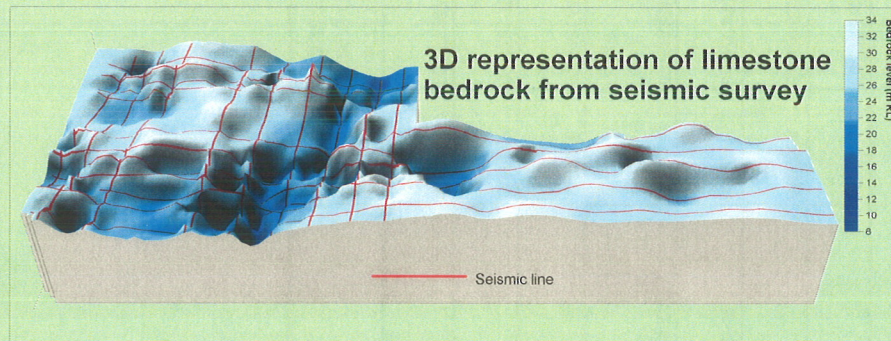
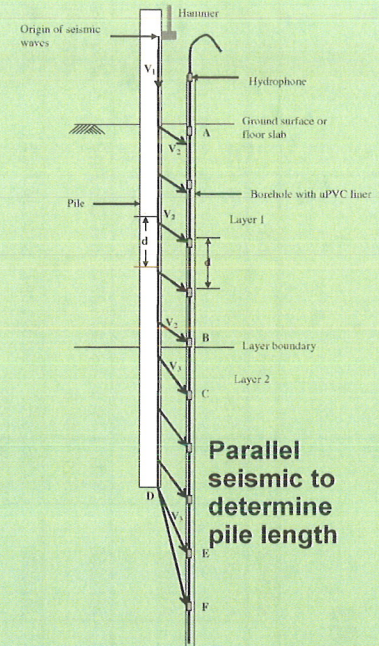
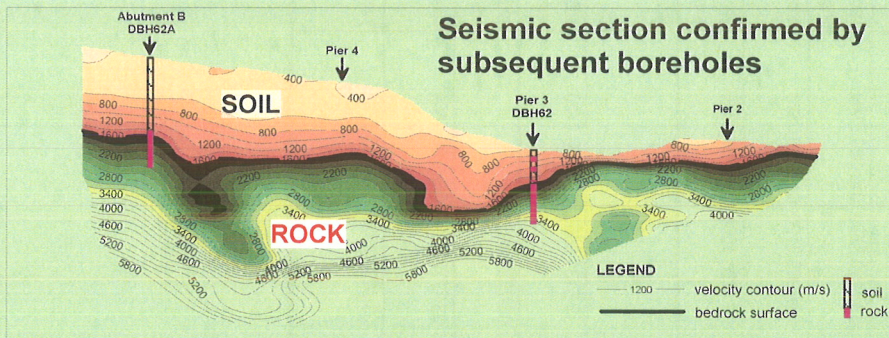
NO.	COMPANY NAME	ADDRESS	NAME	MB'SHIP NO	TEL	FAX	H/P	E-MAIL
1	GDS INSTRUMENTS SDN BHD	NO. 124, JALAN KAPAR 27/89, SECTION 27, TAMAN ALAM MEGA, 40400 SHAH ALAM, SELANGOR	ANG KOH AN	HM 0002	03-5192 3228	03-5192 3230	012-366 7589	admin@gdsi.com.my angkohan@gmail.com

LIST OF ASSOCIATE MEMBERS

NO.	COMPANY NAME	ADDRESS	NAME	MB'SHIP NO	TEL	FAX	H/P	E-MAIL
1	ASSOCIATED TESTING LABORATORY SDN BHD	NO. 152, JALAN SELINSING 5, TAMAN CITY, 51200 KUALA LUMPUR	TAY C.S / CHRISROPER TAY	AM 0008	03-625 86183	03-6258 4474	019-354 4109	atlsdnbhd@gmail.com
2	BADRUL NIZAM BIN ISMAIL	NO. 37, LORONG 4, TAMAN SG. DUA UTAMA, 13800 BUTTERWORTH, PULAU PINANG	BADRUL NIZAM ISMAIL	AM0012	-	-	0123726249 0139429499	adrulnizam@ppinang.uitm.edu.my badrul.79@gmail.com
3	BW PERUNDING SDN BHD	NO.3 JALAN MANAU, OFF JALAN KG. ATTAP, 50460 KUALA LUMPUR.	CHIK HISHAM BIN MOHD HASHIM	AM 0005	03-2274 4418 03-2274 4419	03-2274 4318	019-315 2410	chikhisham@gmail.com admin@bwp.com.my
4	CE INSTRUMENTS SDN BHD	NO. 29, BLK C, LRG JUGRA, TAMAN SRI LEMPAH, 3 1/2 MILES, OLD KLANG ROAD, 58100 KUALA LUMPUR	MUNNING JAMALUDIN	AM 0002	03-7982 8757 03-7982 7325	03-7981 3625	019-274 7433	ceimtlmj@gmail.com
5	DATGEL ASIA (M) SDN BHD	LOT 2-2, LEVEL 2, TOWER B, THE TROIKA, 19 PERSIARAN KLCC, 50450 KUALA LUMPUR.	PHIL WADE	AM 0009	03-89335370	03-27268915		Phil.Wade@datgel.com
6	GDS INSTRUMENTS SDN BHD	NO.124, JALAN KAPAR 27/89, SECTION 27, TAMAN ALAM MEGA, SHAH ALAM 40400 SELANGOR	ANG KOH AN	AM 0001	03-5192 3228	03-5192 3230	012-366 7589	admin@gdsi.com.my angkohan@gmail.com
7	G.E.M EXPLORATIO SDN BHD	NO.11A, JALAN BUNGA TANJUNG 6A, TAMAN PUTRA, AMPANG, 68000 SELANGOR	GEH POH KHONG	AM 0004	03-42952802	03-4295 3100	012-478 5628	pohkgeh@gmail.com
8	GEO TECHNOLOGY RESOURCES SDN BHD	31-1, JALAN MAWAR 5B, TAMAN MAWAR, 43900 SEPANG, SELANGOR DARUL EHSAN	MOHD HARIRI BIN ARIFIN	AM0011	03-8705 1829	03-8705 1868	013-289 8336	geotechnologyresources@gmail.com www.geotechnologyresources.com
9	GLOBAL LAB ENGINEERING	A-173, TINGKAT BAWAH, LORONG IM 16/1, TAMAN SRI PERDANA, BANDAR INDERA MAHKOTA, 25200 KUANTAN, PAHANG DARUL MAKMUR	MUHAMAD SYAKIR ZULKAFI	AM0014	09-5733343	-		globalab2u@gmail.com
10	PETROSEIS SDN BHD	51, JALAN ANGGERIK ARANDA AB 31/AB, KOTA KEMUNING, 40460 SHAH ALAM, SELANGOR	WOO CHAW HONG	AM0013	03-5131 9899	03-5131 9855	012-236 2460	admin@petroseis.asia www.petroseis.asia
11	SOILS & MATERIALS LABORATORY (M) SDN BHD	NO.1, JALAN 7/155, BUKIT OUG INDUSTRIAL PARK, 58200 KUALA LUMPUR	KIM LIN PIEW	AM 0007	03-7781 7996	03-7781 8030		lpkim@smlab.com.my smlab@po.jaring.my
12	SURETEST INSTRUMENTS SDN BHD	77-2A, OG BUSINESS PARK, JALAN TAMAN TAN YEW LAI, TAMAN TAN YEW LAI, 58200 KUALA LUMPUR.	PATRICK CHUA	AM 0006	03-77728772	03-77728776	012-208 6404	suretest88@gmail.com
13	YWE SDN BHD	LOT 25, JALAN CJ 1/1, KAWASAN PERINDUSTRIAN, CHERAS JAYA, CHERAS, 43200 SELANGOR	YEE CHEE KIN	AM 0003	03-9075 7529 03-9075 7530 03-9075 7531	03-9075 8529	012-290 5718	ywe@ywe.com.my

WHERE SITE INVESTIGATION MEANS MORE THAN JUST BOREHOLES

GEOLOGICAL MAPPING, GEOPHYSICAL & GEOTECHNICAL INVESTIGATION



SOIL CORING, OUR PROPRIETARY METHOD FOR GOOD RECOVERY OF ALL MATERIAL TYPES

SUBSURFACE ENGINEERING SDN BHD

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Email: enquiry.sesb@gmail.com

13, Jalan Anggerik Mokara 31/57, Kota Kemuning, 40460 Shah Alam, Selangor Darul Ehsan

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No- 1 : General Condition & Preliminaries

Item	Description of Work	Unit	Rate (RM)
1.0	<u>General Condition and Preliminaries</u>		
1.1	Allow for compliance with all the terms and conditions of Quotation and Specification:-	sum	2,000.00
1.2	Allow for compliance with the following:-		
	a Liaison with the relevant authorities		
	b Prepare and arrange laboratory testings		
	c Setting out		
	d Safety and convenience of the public		
	e Water supply		
	f Electrical Power Supply		
	g Temporary access		
	h Storage facilities		
	i Workmen's accommodation		
	j Removal of improper plant		
	k Damage of overhead and underground mains and services		
	l Clearance of site on completion		
	m Submission of report	sum	7,500.00
1.2.1	Extra over item 1.2 (k) for detection and insurance against damage of overhead and underground mains and services [@cost +15%]	sum	-
1.2.2	Extra over item 1.2 for compliance to Environmental, Safety & Health Requirements (may cost more than contract requirement of drilling & testing work) [@cost +15%].	sum	-
1.2.3	Provision of Safety Supervisor.	man/month	9,000.00
1.2.4	Provision of Safety Officer.	man/month	15,000.00
1.2.5	Provision of Safety Manager.	man/month	21,000.00
1.2.6	Provision of Environment Supervisor.	man/month	9,000.00
1.2.7	Provision of Environment Officer.	man/month	15,000.00
1.2.8	Provision of Environment Manager.	man/month	21,000.00
1.3	Provide survey for setting out borehole/test locations and final survey of as built locations	nr	400.00
1.4	Extra over item 1.3 for survey over water	nr	600.00
1.5	Allow for additional work involved in the setting out a road project measured in terms of shortest route of longitudinal traverse to the last position investigation in ordinary terrain and vegetation, except certified primary jungle to the nearest 1 km	km	2,500.00
1.5.1	Extra over item 1.3 and 1.5 for survey drawing to be endorsed by Licensed Surveyor [@cost +15%]	sum	-
1.6	Extra over item 1.3 for survey over water	km	1,300.00
1.7	Allow additional work involved in setting out a building project on an entirely new site with necessity of reference to boundary stones	sum	650.00
1.8	Construct exploration location markers	nr	100.00
1.9	Provide full time experienced geologist during site operation to log and describe soil and rock sample	man/wk	5,000.00
1.10	Allow for overtime wages to the Engineer/C.O.W. for providing supervision beyond normal working hours	man/hr	150.00
1.11	To provide 4 wheel drive vehicle up to maximum of 1,600 c.c capacity inclusive of maintenance	nr/wk	2,900.00
1.12	To provide and maintain hand phone for the duration of contract	nr/wk	375.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ1-1/1



GEOLAB (M) SDN BHD (210351-V)

Foundation, Soil & Concrete Specialists.

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MANAGEMENT & ADMINISTRATION OFFICE : 1A & 1B, Jalan Undan 15, Taman Perling, 81200 Johor Bahru, Johor, Malaysia.
Tel: +607-241 5932 / 241 1989 Fax: +607-241 5931 Email: geolab@geolab-sdn-bhd.com

OPERATION OFFICE

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Website: www.geolab-sdn-bhd.com



MS ISO/IEC17025
TESTING
SAMM NO. 254



Certificate No: 403778



Soil Investigation (Land & Marine)

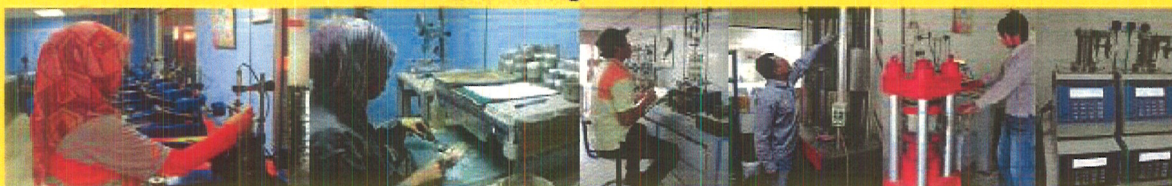


Geotechnical Instrumentation



Pile Testing

Retaining Wall



Civil Laboratory - Material Testings

Geology Laboratory

OUR SERVICES:

- Site Investigation (Land & Marine)
- Soil Laboratory & Field Testings
- Geotechnical Instrumentations
- Material Testings
- Statnamic Load Test
- Dynamic Load Test (PDA Test)
- Sonic Integrity Test (SIT/PIT)
- Sonic Logging Test
- Rock / Ground Anchors
- Micropiling
- Pressure Grouting
- Shotereting
- Tubewell Drilling
- Soil Stabilisation
- Structural Strengthening & Repair
- Betoflor Retaining Wall System

"Your One Stop Professional Testing Centre"

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E-mail : sales@geonamics.com.sg
Website : www.geonamics.com.sg

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
2.0	Mobilisation & demobilisation of drilling rig		
2.1	<u>Mobilisation & drilling rig and ancillaries to the site and demobilisation upon completion</u>		
2.1.1	Up to 25km from Kuala Lumpur	sum	3,800.00
2.1.2	Over 25km and up to 75km from Kuala Lumpur	sum	4,500.00
2.1.3	Over 75km and up to 125km from Kuala Lumpur	sum	5,300.00
2.1.4	Over 125km and up to 175km from Kuala Lumpur	sum	6,000.00
2.1.5	Over 175km and up to 225km from Kuala Lumpur	sum	6,800.00
2.1.6	Over 225km and up to 275km from Kuala Lumpur	sum	7,500.00
2.1.7	Over 275km and up to 325km from Kuala Lumpur	sum	8,300.00
2.1.8	Over 325km and up to 375km from Kuala Lumpur	sum	9,000.00
2.1.9	Over 375km and up to 425km from Kuala Lumpur	sum	9,800.00
2.1.10	Over 425km and up to 475km from Kuala Lumpur	sum	10,500.00
2.1.11	Over 475km and up to 525km from Kuala Lumpur	sum	11,300.00
2.1.12	Over 525km from Kuala Lumpur	sum	12,000.00
2.1.13	Extra over item 2.1 if the site is the states of Kelantan (excluding Kota Bharu district, Terengganu (excluding Kuala Terengganu district), Pahang (excluding Kuantan and Temerloh district) and the Ulu Perak (Grik) district in Perak	sum	750.00
2.1.14	Move the drilling rig from one borehole position to the next, including dismantling it at the old position and erecting it at the new position on land (Bldg.site) - dry	sum	650.00
2.1.15	Extra over 2.1.14 when the new position is more than 500m from the old position but the two positions are within the same site.	sum	650.00
2.1.16	Extra over 2.1.14 when the new position is at a site different for that of the old position but the two different sites are grouped together in the Works	sum	650.00
2.1.17	Provision of matting over swampy ground	m	50.00
2.1.18	Provision of staging over swampy ground/ shallow water	nr	9,000.00
2.1.19	Provision of drum pontoon over water	nr	12,500.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ2-1/6



Our services

- Site Investigation
- Monitoring Well, Water Well
- Cavity Grouting
- Ground Anchor
- Micropile , Underpinning, Pile Testing



SEALAND DRILLERS (M) SDN BHD Co.No.74616-M

SEALAND TEKNIKAL (M) SDN BHD Co.No.112776-D

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Malaysian Site
Investigators
Association
Member M0008

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

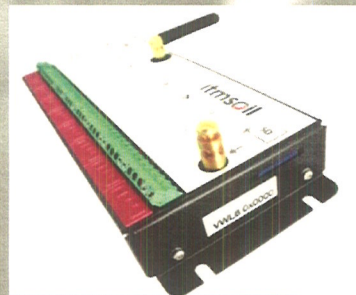
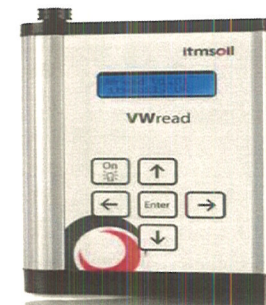
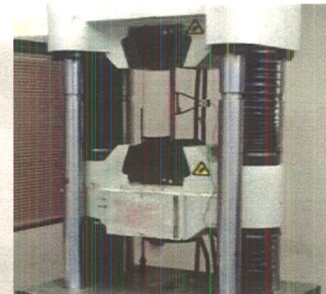
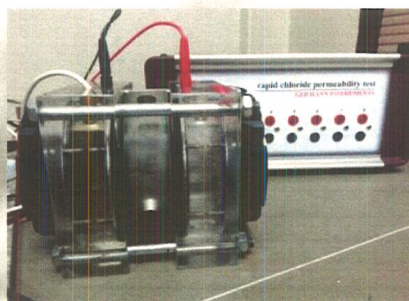
Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
2.2	<u>Provision of barge / vessel</u>		
2.2.1	Mobilisation & Demobilisation of barge / vessel	nr	62,500.00
2.2.2	Rental of barge / vessel	nth	95,000.00
2.2.3	Provision of Tug boat inclusive of fuel	nth	85,000.00
2.2.4	Provision of working boat inclusive of fuel	nth	28,500.00
2.2.5	Provision of small passenger boat inclusive of fuel	nth	20,000.00
2.2.6	Provision of foam drilling equipment i.e. foam pump, air compressor and etc	nth	20,000.00
2.3	<u>Provision of Jack-up pontoon</u>		
2.3.1	Mobilisation & Demobilisation of jack-up pontoon	nr	37,500.00
2.3.2	Rental of jack-up pontoon up to maximum of 15m depth of water	nth	150,000.00
2.3.3	Provision of Excavator for making access inclusive of rental and transportation	nth	45,000.00
2.4	<u>Setting up and shifting of Drilling Rig</u>		
	Move the drilling rig to the test position including setting up and dismantling upon completion of borehole where the site is on:-		
2.4.1	Flat Land		
2.4.1.1	Distance up to 100m	nr	850.00
2.4.1.2	Distance over 100m up to 500m	nr	1,100.00
2.4.1.3	Distance over 500m	nr	1,500.00
2.4.2	Undulating Land		
2.4.2.1	Distance up to 100m	nr	1,250.00
2.4.2.2	Distance over 100m up to 500m	nr	1,900.00
2.4.2.3	Distance over 500m	nr	2,500.00
2.4.3	On Slope		
2.4.3.1	Distance up to 100m	nr	1,800.00
2.4.3.2	Distance over 100m up to 500m	nr	2,650.00
2.4.3.3	Distance over 500m	nr	3,500.00
2.4.4	Swampy Ground		
2.4.4.1	Distance up to 100m	nr	2,500.00
2.4.4.2	Distance over 100m up to 500m	nr	3,800.00
2.4.4.3	Distance over 500m	nr	5,000.00
2.4.5	Primary Jungle		
2.4.5.1	Distance up to 100m	nr	5,650.00
2.4.5.2	Distance over 100m up to 500m	nr	10,000.00
2.4.5.3	Distance over 500m	nr	15,000.00
2.4.6	Over Water / Swampy Ground		
2.4.6.1	with staging	nr	3,800.00
2.4.6.2	with drum pontoon	nr	3,500.00
2.4.7	Extra over item 2.4 to comply with the work requirement, where handauger to 4m depth is required.	nr	1,000.00
2.4.7.1	Ditto, where barricades and signage is required.	nr	3,000.00
2.4.7.2	Ditto, where traffic management is required [@ cost +15%].	team/day	-
2.4.7.3	Ditto, where lane closure is required [@ cost +15%].	team/day	-
2.4.7.4	Ditto, where multiple movement and setting up of drilling rigs for completion of borehole in compliance to Local Authority Requirements.	nr	5,000.00
2.4.7.5	Ditto, where only night/morning (2000 Hr - 0600 Hr) is allowed.	nr	5,000.00
2.4.7.6	Ditto, where water is required to be transported from outside site.	nr	2,000.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ2-2/6



Soil Instruments (M) Sdn. Bhd.

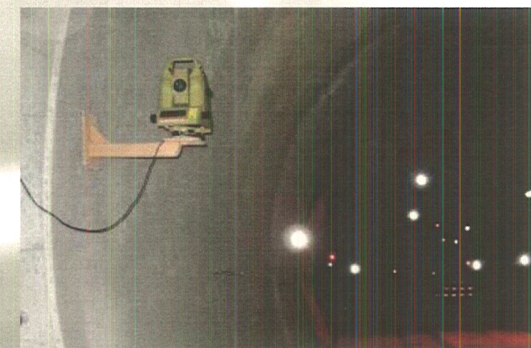
Fields of Activity:-

- Geotechnical and Structural Instrumentation Specialist
- Site Investigation
- Slope Stabilisation
- Drilling and Grouting
- Material Testing Laboratory (ISO/IEC 17025)

IMM SOIL Sdn. Bhd.

Fields of Activity:-

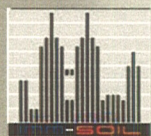
- Structural, Concrete and Cementitious Materials
- Road Engineering and Testing on Asphalt, Bitumen and Aggregates
- Advanced Testing on Rocks and Soils
- Expertise and Consulting on Material Technology



SOIL INSTRUMENTS (M) SDN BHD (117953-T)

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WEBSITE: http://www.imm.ch/index_imm_soil.htm



The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2005, unless otherwise stated		
2.5	Boring in soil		
2.5.1	Carry out Rotary Wash Boring / Rotary open hole drilling in soil whether cased or uncased (NW size).		
2.5.1.1	Depth from existing ground level to n.e. 10m.	m	80.00
2.5.1.2	Ditto exceeding 10m but n.e. 20m.	m	90.00
2.5.1.3	Ditto exceeding 20m but n.e. 30m.	m	100.00
2.5.1.4	Ditto exceeding 30m but n.e. 40m.	m	110.00
2.5.1.5	Ditto exceeding 40m but n.e. 50m.	m	120.00
2.5.2	Carry out Rotary Wash Boring / Rotary open hole drilling in soil whether cased or uncased (HW size).		
2.5.2.1	Depth from existing ground level to n.e. 10m.	m	90.00
2.5.2.2	Ditto exceeding 10m but n.e. 20m.	m	100.00
2.5.2.3	Ditto exceeding 20m but n.e. 30m.	m	110.00
2.5.2.4	Ditto exceeding 30m but n.e. 40m.	m	120.00
2.5.2.5	Ditto exceeding 40m but n.e. 50m.	m	130.00
2.5.3	Carry out Rotary Boring in soil in accordance with MS 2038:2006 Section 4.2.8.3 whether cased or uncased (NW size). In practice, this method is not workable for borehole depth exceeding 30m. Will require to use methods 2.5.1 to complete borehole exceeding 30m.		
2.5.3.1	Depth from existing ground level not exceeding 10m	m	170.00
2.5.3.2	Ditto exceeding 10m but n.e. 20m	m	190.00
2.5.3.3	Ditto exceeding 20m but n.e. 30m	m	210.00
2.5.4	Carry out Rotary Boring in soil in accordance with MS2038:2006 Section 4.2.8.3 whether cased or uncased (HW size):-		
2.5.4.1	Depth from existing ground level not exceeding 10m	m	190.00
2.5.4.2	Ditto exceeding 10m but n.e. 20m	m	210.00
2.5.4.3	Ditto exceeding 20m but n.e. 30m	m	230.00
	Note: A Comparison research on the effectiveness of using the recommended Drilling Method (4.2.8.3) with Top Drive rigs as compared to the Rotary Wash Boring with Spindle Drive rigs was carried out by JKR in 2008/2009. The results of the comparison drilling, in the 2 sites in Shah Alam, between the MS2038:2006 4.2.8.3 drilling method using Top-drive drilling machine and rotary wash boring using spindle drive machine shown no significant or conclusive differences. This method (4.2.8.3) was 2 to 3 times slower than Rotary Wash Boring for 20m deep boreholes. In general, the Rotary Wash Boring Method using spindle drive machine indicated better sample recovery. Ikram Engineering Services Sdn Bhd, the main site investigation provider for JKR and other government bodies, also reported similar findings with the results of above comparison research.		
2.5.5	Extra over item 2.5.1 to 2.5.4 for foam drilling	m	100.00
2.6	Drilling in rock		
2.6.1	Carry out diamond core drilling of 30.2mm minimum diameter into any kind of rock including delivery of cores in standard boxes to the specified Laboratory:		
2.6.1.1	Depth from existing ground level not exceeding (n.e.) 10m	m	270.00
2.6.1.2	Ditto exceeding 10m but n.e. 20m	m	290.00
2.6.1.3	Ditto exceeding 20m but n.e. 30m	m	310.00
2.6.1.4	Ditto exceeding 30m but n.e. 40m	m	330.00
2.6.1.5	Ditto exceeding 40m	m	350.00
2.6.2	Extra over item 2.6.1 if the core is 52mm minimum diameter, taken as directed by the S.O,		
2.6.3	Extra over item 2.6.1 if the rock (as analysis) by Jabatan Penyasatan Kajibumi, Kuala Lumpur) is one of the following types: granite granodiorite, quartz - porphyry, rhyolite, vein-quartz, siliceous sandstone or quartzite	m	75.00
2.6.4	Extra over item 2.6.1 and 2.6.2 if the rock types are those in item 2.6.3	m	185.00
2.6.5	Reaming through rock when encountering cavities/boulders (NW casing)	m	190.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

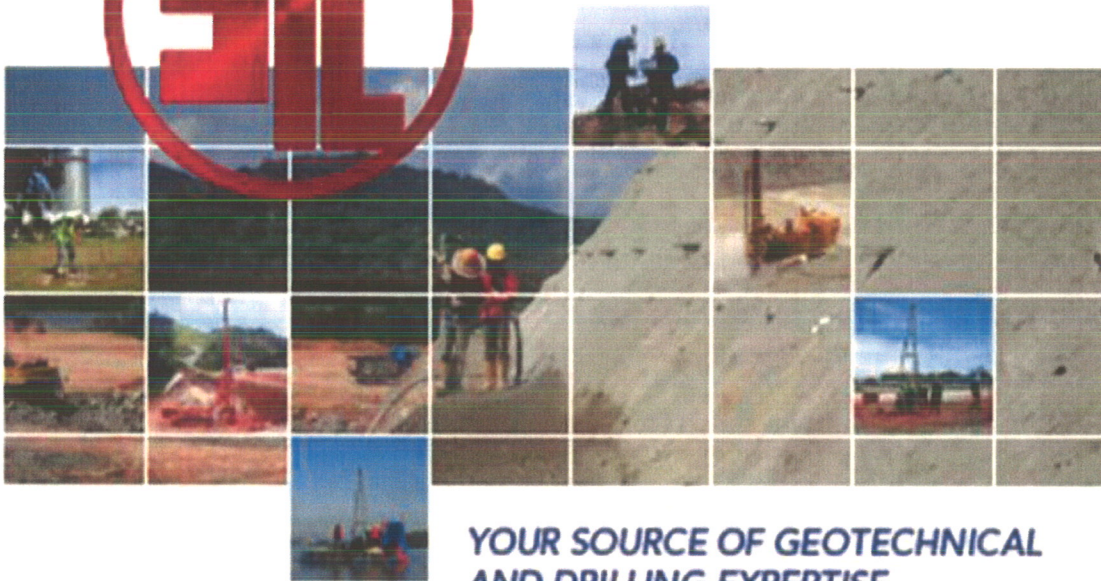
MSIA/Rate/2017

BQ2-2/6

With Compliments from



STL GROUP



**YOUR SOURCE OF GEOTECHNICAL
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- Material and Laboratory Testing
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- Pavement Evaluation and Design
- Pile / Plate Load and PDA Test
- Waterwell Construction and Pressure Grouting
- Guniting Works, Soil Nailing and Rock Anchoring
- Slope Protection Works

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STL DRILLING SDN. BHD. (319590-A)

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The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
2.7	<u>In-situ tests</u>		
2.7.1	Carry out Standard Penetration Test including provision of disturbed samples:-		
2.7.1.1	Depth from existing ground level not exceeding 10m	nr	65.00
2.7.1.2	Ditto exceeding 10m but n.e. 20m	nr	80.00
2.7.1.3	Ditto exceeding 20m but n.e. 30m	nr	95.00
2.7.1.4	Ditto exceeding 30m but n.e. 40m	nr	110.00
2.7.1.5	Ditto exceeding 40m but n.e. 50m	nr	125.00
2.7.1.6	Ditto exceeding 50m but n.e. 60m	nr	150.00
2.7.1.7	Ditto exceeding 60m but n.e. 70m	nr	180.00
2.7.1.8	Ditto exceeding 70m but n.e. 80m	nr	220.00
2.7.1.9	Ditto exceeding 80m but n.e. 90m	nr	270.00
2.7.1.10	Ditto exceeding 90m but n.e. 100m	nr	330.00
2.7.2	Carry out Vane Shear Test:		
2.7.2.1	Depth from existing ground level not exceeding 10m	nr	80.00
2.7.2.2	Ditto exceeding 10m but n.e. 20m	nr	90.00
2.7.2.3	Ditto exceeding 20m but n.e. 30m	nr	100.00
2.7.2.4	Ditto exceeding 30m but n.e. 40m	nr	110.00
2.7.2.5	Ditto exceeding 40m but n.e. 50m	nr	120.00
2.7.3	Carry out Acker Vane Shear Test		
2.7.3.1	Depth from existing ground level not exceeding 10m	nr	65.00
2.7.3.2	Ditto exceeding 10m but n.e. 20m	nr	90.00
2.7.3.3	Ditto exceeding 20m but n.e. 30m	nr	115.00
2.7.4	Carry out Geonor Vane Shear Test		
2.7.4.1	Depth from existing ground level not exceeding 10m	nr	225.00
2.7.4.2	Ditto exceeding 10m but n.e. 20m	nr	250.00
2.7.4.3	Ditto exceeding 20m but n.e. 30m	nr	275.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ2-4/6

Vision

Customers' dynamic association with Soilpro as an approved and recognised geotechnical testing laboratory.

Mission

Soilpro's mission is to provide the highest laboratory quality services to customers who effectively rely on geotechnical test data for safe and practical design or assessment.



Laboratory Tests

Classification - moisture content, Atterberg limits, particle size distribution, bulk/dry density, dispersion (double hydrometer) and particle density (specific gravity).

Shear Strength - UU triaxial compression, unconfined compression, CU/CD triaxial compression, drained shear box (60mm and 100mm) and hand vane shear.

Consolidation - one-dimensional consolidation, swelling pressure, measurement of swelling, settlement on saturation, one-dimensional swell or settlement potential, collapse potential and expansion index.

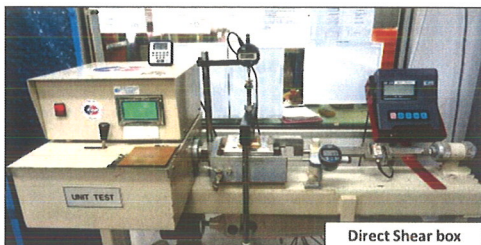
Permeability - constant head triaxial cell, constant head permeameter and falling head permeameter.

Dispersibility - pinhole, crumb test and Emerson class.

Compaction Related - standard and modified Proctor, density index (relative density), unsoaked and soaked CBR.

Rock Strength - unconfined compressive strength, Young's modulus/Poisson's ratio and point load index.

Soil/Water - pH value, total sulphate content, chloride content, organic matter content (soil), resistivity (Wenner 4-electrode), Marsh funnel viscosity and total suspended solids (water).



Direct Shear box



Oedometers

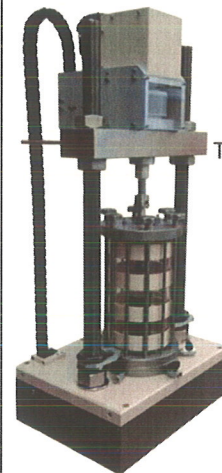
Triaxial System

4 No. test sets of 3 specimens per set

12 units Compression Machines
12 units Load Cells, 4 kN capacity
12 units Displacement Transducers
16 units Oil/Water Constant Pressure
- 12 cell pressure lines
- 4 back pressure lines, each split to 3 for a total of 12 lines.

12 units Automatic Volume Change
12 units Pore Pressure Transducers
12 units Triaxial Cells
2 units Datalogger – 2 x 24 channels
2 units Triaxial Testing Software

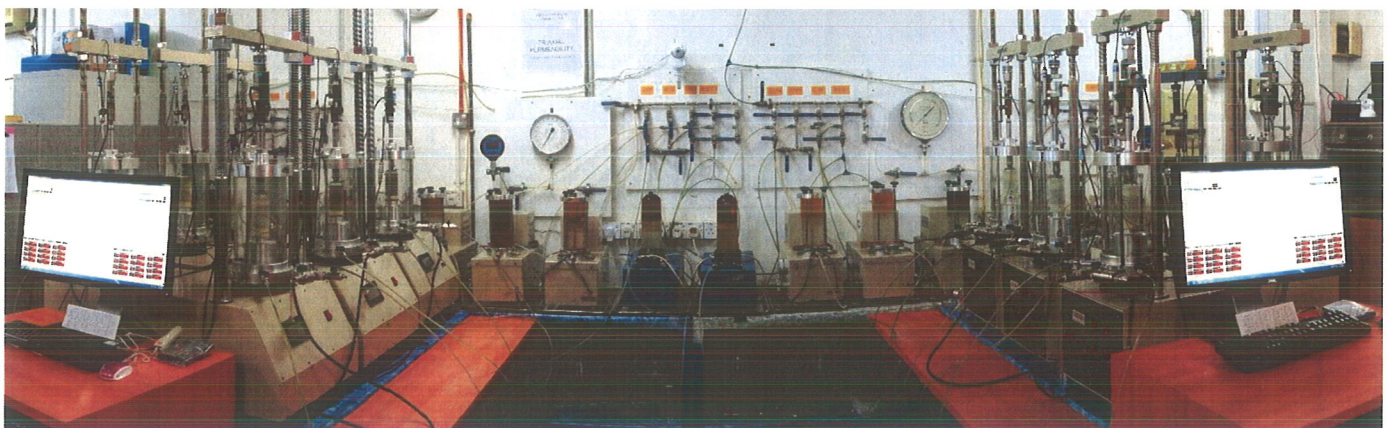
Accessories for diameter 38mm, 50mm, 70mm and 73mm untrimmed samples.



New Acquisition:
Enterprise level
Dynamic/Cyclic/CAU
Triaxial Testing System

Application

Piling
Embankments & Dams
Earthquake
Offshore
Tunnelling
Construction



The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

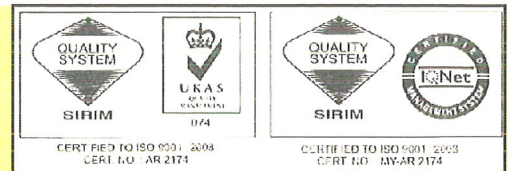
Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
2.8	<u>Soil & Water Sampling</u>		
2.8.1	Obtain undisturbed samples with thin-walled sampler (60mm diameter)		
2.8.1.1	Depth from existing ground level not exceeding 10m	nr	110.00
2.8.1.2	Ditto exceeding 10m but n.e. 20m	nr	120.00
2.8.1.3	Ditto exceeding 20m but n.e. 30m	nr	130.00
2.8.1.4	Ditto exceeding 30m but n.e. 40m	nr	140.00
2.8.1.5	Ditto exceeding 40m	nr	150.00
2.8.2	Extra over 2.8.1 if using 75mm diameter UD tube	nr	50.00
2.8.3	Extra over 2.8.1. if using piston sampler	nr	180.00
2.8.4	Carry out Undisturbed 'Mazier' core sampling using 74mm dia, triple tube core barrel with retractable shoe		
2.8.4.1	Depth from existing ground level not exceeding 10m	nr	230.00
2.8.4.2	Ditto exceeding 10m but n.e. 20m	nr	260.00
2.8.4.3	Ditto exceeding 20m but n.e. 30m	nr	290.00
2.8.4.4	Ditto exceeding 30m but n.e. 40m	nr	320.00
2.8.4.5	Ditto exceeding 40m	nr	350.00
2.8.5	Collect 1 litre of water sample	nr	80.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ2-4/6



TEST SDN. BHD. (30358-T)

(Established in 1976)

Main Office & Laboratory Address:

No.3 & 5, Jalan Anggerik Mokara 31/51, Kota Kemuning, Seksyen 31, 40460 Shah Alam, Selangor Darul Ehsan
 ☎: 03-5122 3688 Fax: 03-5121 1688 Email: sectestsb@gmail.com ; choongpekkem@gmail.com Website: www.testsb.com.my
 CIDB Grade G7 Category B & CE Registration No. 1961207-SL018416 ; PKK Gred G7 Category B & CE

MS ISO 9001 : 2008

Scope of Registration:

PROVISION OF LABORATORY AND FIELD TESTING SERVICES ON CIVIL ENGINEERING MATERIALS, SOIL INVESTIGATION AND GEOTECHNICAL INSTRUMENTATION

Site Investigation

- 9 nos. of own S.I. Rigs
- Soil and Foundation Investigations
- Deep Drilling to >300m for Dam and Mineral Investigation
- Piezocone Test (CPTu)
- Insitu Pressuremeter Test for Soils & Rock (20mPa) – Menard & Oyo Pressuremeters
- Insitu Packer Permeability Test for Soils & Rock
- Insitu Rock Hydraulic Fracture Test
- Insitu Resistivity Measurement
- Insitu Determination of Director Shear Strength of Rock Discontinuities
- Insitu Large Shear Box Test
- Insitu Modulus of Deformation of Rock Mass
- Geological Mapping
- Hydrogeological Survey
- Borehole Televiwer (Acoustic and Optical) for Discontinuity Survey of Boreholes
- Dilapidation Survey

Laboratory Soils & Rock Test

- Standard Tests for Soils & Rock
- Triaxial Tests (CIU, CID & extended tests)
- Large Shear Box Test
- Other Rock Tests (Point Load, Triaxial, Tensile Strength, Direct Shear, Direct Shear Strength of Rock Discontinuities, Modulus & Poisson's Ratio, UPV Measurements for Compression & Shear Wave)

Concrete

- Strength Tests (Cube, Cylinder, Modulus, Poisson's Ratio & Core Test)
- Non-destructive Tests (UPV, Windsor Probe, Rebound Hammer & Others)
- Durability Tests (Carbonation, Permeability, Half-Cell Potential, Resistivity, Covermeter Measurement including Ferroskan, Chloride and Sulphate Tests)
- Long Term Tests (Creep, Shrinkage & Other Tests)
- Impact Echo for determination of Thickness of Concrete from one face and Detection of Defects in concrete
- Factory Floor Flatness and levelness measurements

Geotechnical & Structural Instrumentation

- Geotechnical and Structural Monitoring (Manual or Online Realtime)
- Instruments (Inclinometer, Tiltmeter, EL-BEAM, Standpipes, Piezometers, Pressure Cells, Extensometers, VW & Resistance Wire Strain Gauges, Load Cells & Others)
- Precise Settlement Monitoring using Precise Level
- Pile Instrumentation

Steel, Wire Mesh, Bolts & Nuts, Rail Joints & Others

- Tensile, Bend and Shear Test
- Slow Bend Test on Rail Joints
- Hardness & Macro
- Other Special Tests

Bricks, Blocks, Timber & Other Building Materials

- Most Standard Tests

Environmental

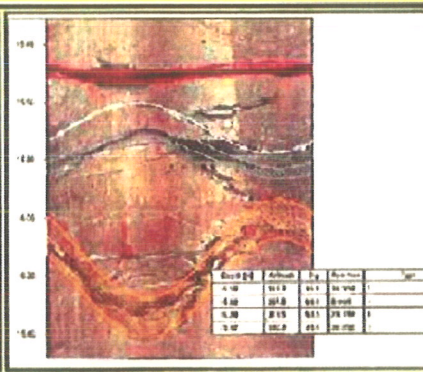
- Vibration & Noise Monitoring

Calibration

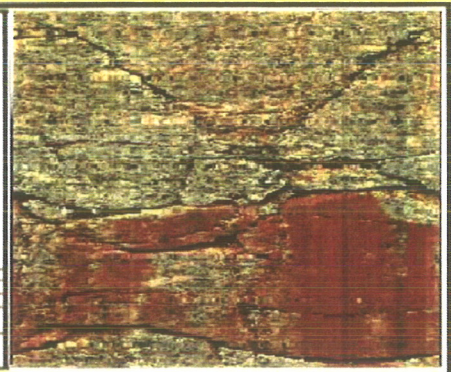
Proving Rings, Load Cells, Dial Gauges, Weighing Balances, Geonor Vanes, Pressure Gauges, Tiltmeters etc.



Jack-Up Pontoon



Borehole Acoustic and Optical Televiwer



The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

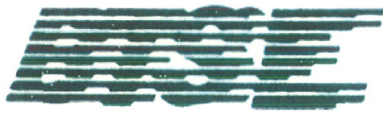
Bill No:- 2 : Rotary Drilling with Drilling Rig

Item	Description of Work	Unit	Rate (RM)
	<u>NOTES: All tests are referred to MS 1056:2005 / BS1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated</u>		
2.10	<u>Other In-Borehole Tests</u>		
2.10.1	Standpipe		
2.10.1.1	Supply & install slotted PVC standpipe in borehole	nr	750.00
2.10.1.2	Supply & install PVC pipe up to 10m depth	m	50.00
2.10.1.3	Supply & install PVC pipe exceeding 10m depth	m	65.00
2.10.2	Standpipe Piezometer		
2.10.2.1	Supply & install piezometer tip in borehole	nr	1,000.00
2.10.2.2	Supply & install PVC pipe up to 10m depth	m	50.00
2.10.2.3	Supply & install PVC pipe exceeding 10m depth	m	65.00
2.10.2.4	Supply & install protective cover	nr	650.00
2.10.3	Monitoring of water level in standpipe/ standpipe piezometer after completion of field work	trip	2,000.00
2.10.4	Permeability test		
2.10.4.1	Setting up and preparation of equipment	nr	1,200.00
2.10.4.2	Carry out constant head permeability test in borehole	nr	1,000.00
2.10.4.3	Carry out variable head permeability test in borehole	nr	650.00
2.10.4.4	Carry out single packer test in rock formation	nr	2,500.00
2.10.4.5	Carry out ground water level observation in borehole	nr	180.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ2-6/6



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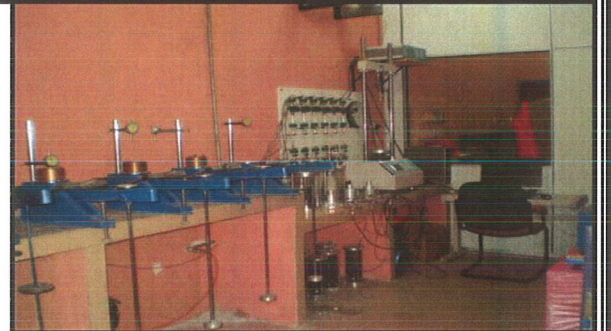
BTS Engineering Sdn Bhd

No. 42A, Lorong Setia 1A, Taman Setia,
Jalan Johan Setia, 41200 Klang, Selangor
Tel: 03-5162 5141 / 5153 / 4788 Fax: 03-5162 5226
Email: btsesb96@gmail.com

We provide multi disciplinary services including marine and land site investigation, design and built slope protection works, soil and material laboratory testing, geological survey, instrumentation works geotechnical assessment as well as specialist civil works.

With a proven track record backed by reliable machinery, equipment and skilled workforce our company ready and can be trusted to undertake any site investigation and slope protection works.

PKK - Class A
Status - Bumiputra
CIDB - G7 (B,CE,ME)
Registered with Kementerian Kewangan,
TNB, Petronas & KTM



Certificate Number 6763

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

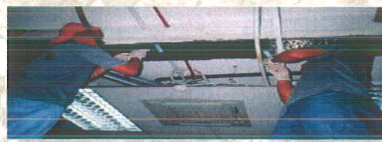
Bill No:- 3 : Deep Sounding and Piezocone

Item	Description of Work	Unit	Rate (RM)
NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated			
3.0	<u>Deep Sounding and Piezocone Rig - Mobilisation & Demobilisation</u>		
3.1	Bring the 10 tons Deep Sounding or Piezocone Rig to the site and remove the same from the Site after completion of the work, including erecting the rig at the first sounding position, when the site is:		
3.1.1	Up to 25km from Kuala Lumpur	sum	7,500.00
3.1.2	Over 25km and up to 125km from Kuala Lumpur	sum	8,750.00
3.1.3	Over 125km and up to 225km from Kuala Lumpur	sum	10,000.00
3.1.4	Over 225km and up to 325km from Kuala Lumpur	sum	11,250.00
3.1.5	Over 325km and up to 425km from Kuala Lumpur	sum	12,500.00
3.1.6	Over 425km and up to 475km from Kuala Lumpur	sum	13,750.00
3.1.7	Over 525km from Kuala Lumpur	sum	-
3.1.8	Extra over item 3.1 if Site is in the states of Kelantan (excluding Kota Bharu district), Terengganu (excluding Kuala Terengganu district), Pahang (excluding Kuantan and Temerloh district) and the Ulu Perak (Grik) district in Perak	sum	625.00
3.2	Bring the 20 tons Deep Sounding or Piezocone Rig to the site and remove the same from the Site after completion of the work, including erecting the plant at the first sounding position, when the site is:		
3.2.1	Up to 25km from Kuala Lumpur	sum	7,500.00
3.2.2	Over 25km and up to 125km from Kuala Lumpur	sum	8,750.00
3.2.3	Over 125km and up to 225km from Kuala Lumpur	sum	10,000.00
3.2.4	Over 225km and up to 325km from Kuala Lumpur	sum	11,250.00
3.2.5	Over 325km and up to 425km from Kuala Lumpur	sum	12,500.00
3.2.6	Over 425km and up to 475km from Kuala Lumpur	sum	13,750.00
3.2.7	Over 525km from Kuala Lumpur	sum	-
3.2.8	Extra over item 3.2 if Site is in the states of Kelantan (excluding Kota Bharu district), Terengganu (excluding Kuala Terengganu district), Pahang (excluding Kuantan and Temerloh district) and the Ulu Perak (Grik) district in Perak	sum	625.00
3.3	<u>Deep Sounding - Setting up & Dismantling within the Site</u>		
3.3.1	Move the Deep Sounding Rig from one sounding position to the next including dismantling it at the old position and erecting it at the new position on land	nr	1,875.00
3.3.2	Ditto but over swampy ground including the provision of staging and/or matting	nr	12,500.00
3.3.3	Extra over item 3.3.1 when the new position is at a site different from that of the old position but the two different sites are grouped together in the works on land	sum	7,500.00
3.3.4	Extra over item 3.3.2 when the new position is at a site different from that of the old position but the two different sites are grouped together in the works over swampy ground including the provision of staging and /or matting	sum	7,500.00
3.4	<u>Piezocone - Setting up & Dismantling within the Site</u>		
3.4.1	Move the Piezocone Rig from one sounding position to the next including dismantling it at the old position and erecting it at the new position on land	nr	1,875.00
3.4.2	Ditto but over swampy ground including the provision of staging and/or matting	nr	13,125.00
3.4.3	Extra over item 3.4.1 when the new position is at a site different from that of the old position but the two different sites are grouped together in the works on land	sum	7,500.00
3.4.4	Extra over item 3.4.2 when the new position is at a site different from that of the old position but the two different sites are grouped together in the works over swampy ground including the provision of staging and/or matting	sum	7,500.00
3.4.5	To provide temporary access by using excavator for Items No.3.3 & 3.4	wk	11,250.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ3-1/2



ALL PROJECTS CARRIED OUT WITH UNRIVALLED DEPTH OF EXPERIENCE AND EXPERTISE IN THE INDUSTRY



OUR ACTIVE SERVICES

Soil Investigation
Geotechnical Instrumentation
Laboratory Testing
Geophysical Survey
Waterwells Drilling
Environmental Survey
Landfill Rehabilitation
Concrete Coring
Structural Concrete Repair

Ground Anchors
Slope Stabilisation
Ground Improvement
Gravity walls
Grouting
Micropiling



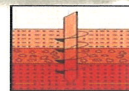
Statutory Body Registration

- i) Pusat Khidmat Kontraktor
- ii) CIDB (Construction Industry Development Board)

Accreditation:

BS EN ISO 9001-2000 Certificate by
Moody International (U.K.)
Certificate No.: 6486

ISO / IEC GUIDE 62 : 1996 Certificate by
Akreditasi Malaysia
ISO 9001 / 2000



STRATA DRILL SDN. BHD.

(Co. No. 265855-P)

STRATA GEOTECHNICS SDN BHD
(Co. No. 393744T)

No.22, Jalan P4/8, Bandar Teknologi Kajang,
43500 Semenyih, Selangor Darul Ehsan,
West Malaysia.

Tel : +6 03-87241622, +6 03-87243622

Fax : +6 03-87240622

Email : strata@stratadrill.com.

Web Site : www.stratadrill.com



GEODATA ENGINEERING SDN. BHD. (401756-P)

- GEOTECHNICAL ENGINEERING SERVICES
- FOUNDATION AND SOIL INVESTIGATION
- MICROPILING AND FOUNDATION UNDERPINNING
- SOIL STABILISATION AND GROUND IMPROVEMENT WORK



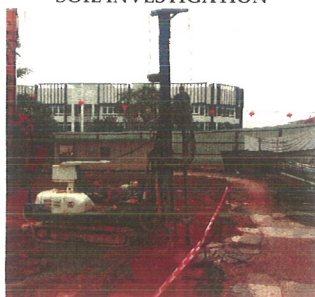
SOIL INVESTIGATION



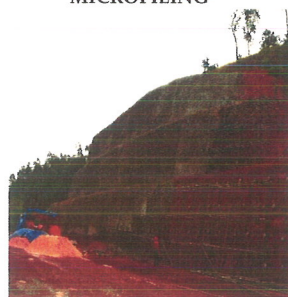
MICROPILING



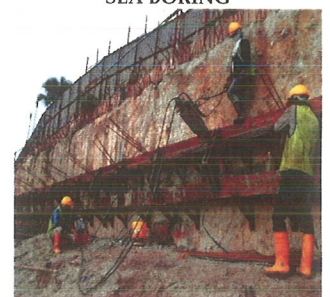
SEA BORING



JET GROUTING



SOIL NAILING/SHOTCRETE



GROUND ANCHOR

No. 15-1, Jalan USJ 1/1B, Regalia Business Centre,
47500 Subang Jaya, Selangor Darul Ehsan.

Tel: 03-8023 2782 / 8023 3290 Fax: 03-8023 4081

Email: geodatamal@gmail.com

Website: www.geodata.my

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 3 : Deep Sounding and Piezocone

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
3.5	<u>Deep Sounding Test</u>		
3.5.1	Carry out Deep Sounding Test:-		
3.5.1.1	Depth from existing ground level not exceeding n.e. 10m	m	45.00
3.5.1.2	Ditto exceeding 10m but n.e. 20m	m	50.00
3.5.1.3	Ditto exceeding 20m but n.e. 30m	m	55.00
3.5.1.4	Ditto exceeding 30m but n.e. 40m	m	60.00
3.5.1.5	Ditto exceeding 40m	m	65.00
3.5.2	Extra over item 3.5.1 if friction reducer is used	hole	75.00
3.6	<u>Piezocone Test</u>		
3.6.1	Carry out Piezocone test:-		
3.6.1.1	Depth from existing ground level not exceeding (n.e.) 10m	m	75.00
3.6.1.2	Ditto exceeding 10m but n.e. 20m	m	80.00
3.6.1.3	Ditto exceeding 20m but n.e. 30m	m	85.00
3.6.1.4	Ditto exceeding 30m but n.e. 40m	m	90.00
3.6.1.5	Ditto exceeding 40m	m	95.00
3.7	<u>Dissipation Test</u>		
3.7.1	Carry out dissipation test	nr	350.00
3.7.2	Extra over item 3.7.1 for dissipation test exceeding one hour	hr	225.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

BQ3-2/2



With Compliments :



GLOBAL GEOTECHNICS SDN. BHD. (483631-V)

NO. 10 & 11, JALAN TK 5/42, KINRARA INDUSTRIAL PARK,
47190 PUCHONG, SELANGOR DARUL EHSAN.

TEL: 03-8075 4623 & 8075 4628 FAX: 03-8075 8161 & 8075 8162

EMAIL: ggeo_3638@yahoo.com.my / ggsb.project@yahoo.com

- SOIL INVESTIGATION
- SAMPLING & TESTING
- GROUTING



RK GEOTECHNIQUE SDN. BHD.

(493228-T)

5-3, Jalan Desa 9/4,
Bandar Country Homes,
48000 Rawang, Selangor.

Tel : +603 - 6733 0127

Fax: +603 6733 1627

Email: rksoil@hotmail.com

" Thinking of development, Think of the site investigation first "

A. RATHAKRISHNAN

Managing Director

+6019 322 1482

ynwa94@yahoo.com

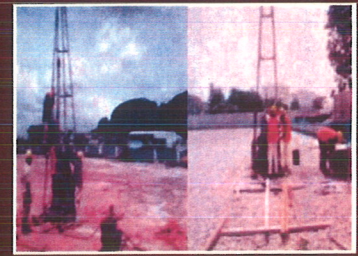
SPECIALISED IN :

- ↪ Soil & Rock Investigation
- ↪ Soil Sampling & Testing
- ↪ Environmental (Monitoring Well Installation)
- ↪ Groundwater Wells
- ↪ Geotechnical Foundation Consultants

**WE'LL NEVER
WORK ALONE**



CIDB - 0120020614-WP71879 | Member Of MSIA



The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 4 : Other Field Tests

Item	Description of Work	Unit	Rate (RM)
	<u>NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated</u>		
4.0	<u>Other Field Tests</u>		
4.1	<u>Mobilisation of personnel and equipment to site and demobilisation upon completion</u>		
4.1.1	Up to 25km from Kuala Lumpur	sum	1,500.00
4.1.2	Over 25km and up to 225km from Kuala Lumpur	sum	1,875.00
4.1.3	Over 225km and up to 425km from Kuala Lumpur	sum	2,250.00
4.1.4	Over 425km from Kuala Lumpur	sum	2,625.00
4.2	<u>Mackintosh or JKR Probes</u>		
4.2.1	Carry out Mackintosh or JKR Probe test to depth not exceeding 15m below ground level or 400 blows/0.3m, penetration whichever is achieved first	nr	280.00
4.3	<u>Hand Auger Boring</u>		
4.3.1	Carry out hand auger boring including provision of disturbed samples:-		
4.3.1.1	Depth from existing ground level not exceeding 2.5m	m	75.00
4.3.1.2	Ditto exceeding 2.5m but n.e. 5.0m	m	85.00
4.3.1.3	Ditto exceeding 5.0m but n.e. 7.5m	m	95.00
4.3.2	Allow for determining over-night water table in hand bores	hole	20.00
4.3.3	Obtain undisturbed sample using thin - walled tube sampler (60mm dia.) from bored hole:-		
4.3.3.1	Depth from existing ground level not exceeding 2.5m	nr	60.00
4.3.3.2	Ditto exceeding 2.5m but n.e. 5.0m	nr	65.00
4.3.3.3	Ditto exceeding 5.0m but n.e. 7.5m	nr	70.00
4.4	<u>Trial Pit</u>		
4.4.1	Carry out trial pit excavation and backfilling of pit size 2m x 2m x 2m inclusive of small disturbed sample	nr	1,200.00
4.4.2	Mapping and logging of pit faces	nr	500.00
4.4.3	Provision of shoring and dewatering	nr	1,875.00
4.4.4	Obtain bulk sample not exceeding 50 kg	nr	125.00
4.4.5	Obtain 300mm x 300mm block sample	nr	500.00
4.5	<u>Penetration Vane Shear Test</u>		
4.5.1	Extra over item 4.1 for Mobilisation of Penetration Field Vane	sum	1,875.00
4.5.2	Carry out Vane Shear Test using Penetration Vane method:		
4.5.2.1	Depth from existing ground level not exceeding (n.e.) 10m	nr	150.00
4.5.2.2	Ditto exceeding 10m but n.e. 20m	nr	175.00
4.5.2.3	Ditto exceeding 20m but n.e. 30m	nr	200.00
4.5.2.4	Ditto exceeding 30m but n.e. 40m	nr	225.00
4.5.2.5	Ditto exceeding 40m	nr	250.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

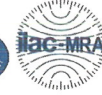
BQ4-1/3

**GEOSPEC SDN.BHD.**

172269-H

GEOSPEC TESTING SDN. BHD.

IAS-ANZ



ISO 9001:2008, Cert no. ACSMA0261

MS ISO/IEC 17025

TESTING
SAMM NO. 595**Kuching HQ:**Lot 587-588, Lorong Blacksmith 2B, Off Jalan Petanak,
93100 Kuching, Sarawak, Malaysia

☎ +6082-428695, ☎ +6082-252516, ☎ 019-8892993

✉ geospec@gmail.com

Bintulu Branch:736, Kim San Garden, Jalan Sungai Nyigu,
97000 Bintulu, Sarawak

☎ +6086-319939, ☎ +6086-334452, ☎ 019-8165008

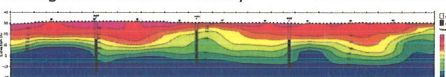
🌐 www.geospec.com.my

MS ISO 9001 : 2008 CERTIFIED COMPANY**MS ISO/IEC 17025 ACCREDITED LABORATORY****SOIL INVESTIGATION**

- Geotechnical Investigation
- Geological Mapping
- Piezocone Test
- Pressuremeter Test
- Acoustics Televiwer
- Slope Stability Analysis
- Foundation recommendation

**GEOPHYSICAL SURVEY**

- Seismic Refraction Survey
- Vertical Electrical Sounding
- 2D Resistivity Tomography
- Multichannel Analysis Surface Wave
- Underground Utilities Survey

**FOUNDATION & SLOPE PROTECTION**

- Micropiling
- Pressure Grouting
- Guniting / Shotcrete
- Soil Nailing, Rock Bolts
- Ground Anchoring
- Foundation Improvement
- Groundwater Well Installation

**GEOTECHNICAL INSTRUMENTATION**

- Inclinator
- Tiltmeter
- Crackmeter
- Extensometer
- Pneumatic Piezometer
- Vibrating Wire Piezometer
- Groundwater Monitoring Well

**LABORATORY TESTING**

(MS ISO/IEC 17025 Accredited Laboratory)

- Soil, Rock, Aggregate, Concrete, Steel, Asphaltic
- Calibration service
- Non-destructive Test

**PILE TESTING**

- Static Load Test
- Dynamic Load Test (PDA)
- Pile Integrity Test (PIT)
- Sonic Integrity Logging
- Bidirectional Load Test
- Instrumented Load Test



Impregnated Bit
Reamer Shell
Surface Set Bit
Impregnated Casing Shoe
Surface Set Casing Shoe

Core Lifter
Core Case
Core Stopper Ring



DTH Hammer Bits



DTH Hammer

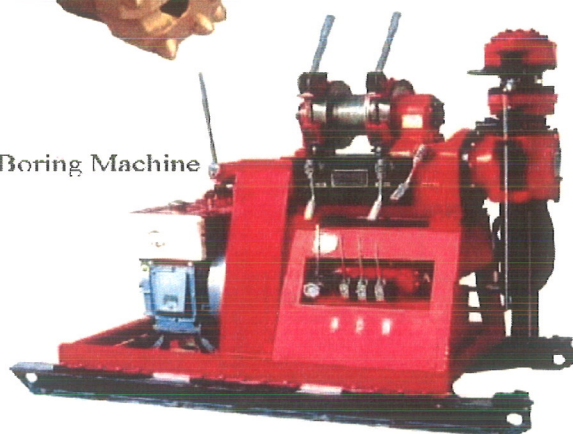


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Boring Machine



The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 4 : Other Field Tests

Item	Description of Work	Unit	Rate (RM)
	<u>NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015 , unless otherwise stated</u>		
4.6	<u>Plate Loading Test</u>		
4.6.1	Extra over item 4.1 for Mobilisation of Equipment (300mm ϕ plate)	sum	2,500.00
4.6.2	Carry out Plate Loading test (MS 2038:2006, Section 5)	nr	5,200.00
4.7	<u>Permeability Test</u>		
4.7.1	To carry out permeability test in soil by Constant Head Method (MS 2038:2006, Section 5)	nr	1,000.00
4.7.2	To carry out permeability test in soil by Variable Head Method (MS 2038:2006, Section 5)	nr	700.00
4.7.3	To carry out permeability test in rock by single or double Packer (MS 2038:2006, Section 5)	nr	1,800.00
4.8	<u>Insitu California Bearing Ratio Tests</u>		
4.8.1	Provision of reacting load (lorry) up to 3 tonnes	day	1,800.00
4.8.2	Carry out Insitu California Bearing Ratio Test (MS 2038:2006, Section 5)	nr	200.00
4.9	<u>Field Density Test</u>		
4.9.1	Carry out Field Density Tests:-		
4.9.1.1	Sand replacement method (Small Pouring Cylinder) (MS 2038:2006, Section 5)	nr	220.00
4.9.1.2	Sand replacement method (Large Pouring Cylinder) (MS 2038:2006, Section 5)	nr	240.00
4.9.1.3	Core cutter method (MS 2038:2006, Section 5)	nr	120.00
4.10	<u>Dynamic Cone Penetration Test (DCP)</u>		
4.10.1	Carry out 150mm diameter pavement coring	nr	110.00
4.10.2	Dynamic Cone Penetration Test in pavement cored hole through the base course (crusher run), sub-base and sub-grade up to 1.2m below the road surface	nr	125.00
4.10.3	Re-instate cored hole with bituminous premix or approved material	nr	55.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ4-2/3

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The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 4 : Other Field Tests

Item	Description of Work	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated		
4.11	<u>Piezometer</u>		
4.11.1	Supply and install piezometer in borehole (drilling of borehole separately charged) as specified by the Engineer including taking reading during the site work in progress. The depth of piezometer tip is not exceeding (n.e.) 5m	nr	875.00
4.11.2	For depth exceeding 5m but n.e. 10m	m	45.00
4.11.3	For depth exceeding 10m but n.e. 20m	m	50.00
4.12	<u>Inclinometer</u>		
4.12.1	Supply and install biaxial inclinometer pipe in borehole (drilling borehole separately charged) for depth not exceeding (n.e.) 10m from ground	nr	2500.00
4.12.2	For depth exceeding 10m but n.e. 20m	m	250.00
4.12.3	For depth exceeding 20m but n.e. 30m	m	270.00
4.13	<u>Settlement Plate</u>		
4.13.1	Supply and install settlement plate of 600mm x 600mm x 10mm thick with 50mm ext. dia. G.I. pipes welded on the plate and 75mm int. dia. G.I. pipe as protective casing for depth not exceeding 5m	nr	1500.00
4.13.2	For depth exceeding 5m but n.e. 10m	m	125.00
4.13.3	For depth exceeding 10m but n.e. 20m	m	140.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

BQ4-3/3

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Email :

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Thank You

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 5 : Collection of Soil and Water Samples in Bulk

Item	Description of Work	Unit	Rate (RM)
5.0	<u>NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated</u> <u>Collection of soil and water samples in bulk</u>		
5.1	<u>Soil samples</u>		
5.1.1	Collect representative disturbed samples in bulk at one location on the Site, at depths not exceeding 1.5m from existing ground level:-		
5.1.1.1	Not exceeding 5kg	nr	125.00
5.1.1.2	Extra over item 5.1.1 for bulk quantities exceeding 5kg measured as a unit of 25kg or part thereof, up to maximum of 100kg	unit	125.00
5.1.1.3	Similar to item 5.1.1 but at a location within 10km from the Site accessible by car or jeep:-		
5.1.1.3.1	Not exceeding 5kg	nr	250.00
5.1.1.3.2	Extra over item 5.1.1 for bulk quantities exceeding 5kg measured as a unit of 25kg or part thereof, up to maximum of 100kg	unit	65.00
5.2	<u>Soil sample for natural moisture content</u>		
5.2.1	Collect a set of 2 sealed sample for the determination of natural moisture content at the laboratory (testing measured separately) in the course of sampling in item 5.1	set	25.00
5.3	<u>Water Sample</u>		
5.3.1	Collect 1 litre of representative ground water sample in a water sample in a water tight clean container from a hand bore or deep bore	nr	65.00
5.4	<u>Block Sample</u>		
5.4.1	Collect block sample of any material of 0.3m x 0.3m for carrying out laboratory testing including transport to approved laboratory	nr	625.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ5-1/1

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 6 : Laboratory Tests

Item	Description of Work	Test Reference	Unit	Rate (RM)
6.0	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated <u>Classification Tests</u>			
6.1	Moisture Content	BS1377: 1990		
6.1.1	Oven-drying method	-Part 2, Method 3.2	nr	7.00
6.2	Atterberg Limits (AL)			
6.2.1	Liquid Limit (LL), Cone four-point definitive method	-Part 2, Method 4.3	set	45.00
6.2.2	Liquid Limit (LL), Cone one-point	-Part 2, 4.4	nr	20.00
6.2.3	Liquid Limit (LL), Casagrande-four point definitive method	-Part 2, 4.5	set	45.00
6.2.4	Liquid Limit (LL), Casagrande-one point	-Part 2, 4.6	nr	20.00
6.2.5	Plastic Limit (PL)	-Part 2, Method 5.3	nr	35.00
6.2.6	Plasticity Index (PI), derivation	-Part 2, 5.4	nr	5.00
NOTE	Standard test methods of (AL) is LL, PL & PI			
	AL but LL is Cone-4 points	-Part 2, 4.3, 5.3 & 5.4	set	85.00
	AL but LL is Cone-1 point	-Part 2, 4.4, 5.3 & 5.4	set	60.00
	AL but LL is Casagrande-4 points	-Part 2, 4.5, 5.3 & 5.4	set	85.00
	AL but LL is Casagrande-1 point	-Part 2, 4.6, 5.3 & 5.4	set	60.00
6.3	Linear Shrinkage (LS)	-Part 2, Method 6.5	nr	30.00
6.4	Bulk Density	BS1377: 1990		
6.4.1	Linear measurement	-Part 2, Method 7.2	nr	20.00
6.4.2	Immersion in water	-Part 2, 7.3	nr	90.00
6.4.3	Water displacement	-Part 2, 7.4	nr	90.00
6.5	Particle Density (specific gravity)	BS1377: 1990		
6.5.1	Gas Jar	-Part 2, Method 8.2	nr	165.00
6.5.2	Small pycnometer	-Part 2, 8.3	nr	60.00
6.5.3	Mass-Volume Relationship			
6.5.3.1	Void Ratio	-	nr	50.00
6.5.3.2	Submerged Unit Weight	-	nr	55.00
6.5.3.3	Unit Weight	-	nr	25.00
6.5.3.4	Porosity	-	nr	65.00
6.6	Particle Size Distribution	BS1377: 1990		
6.6.1	Coarse grained soils - sieving	-Part 2, Method 9.2, 9.3	nr	45.00
6.6.2	Fine grained soil - (sieving+) pipette	-Part 2, 9.2, 9.3, 9.4	nr	250.00
6.6.3	Fine grained soil - (sieving+) hydrometer	-Part 2, 9.2, 9.3, 9.5	nr	70.00
6.6.4	Double Hydrometer - dispersibility	-Part 5, Method 6.4	nr	200.00
6.6.5	Pinhole Test - dispersibility	-Part 5, 6.2	nr	600.00
6.6.6	Crumb Test - dispersibility	-Part 5, 6.3	nr	375.00
6.6.7	Emersion Test - dispersibility	AS1289.3.8.1, 1997	nr	375.00
6.7	Soil Classification Group Index	BS5930: 2015	nr	20.00
6.8	Samples Logging and record			
6.8.1	Split UD, photograph and logging	-	nr	350.00
6.8.2	Provides small record samples	-	nr	30.00
6.9	Brightness Test	-	nr	100.00
6.10	Pilcon Hand Vane Tests	Refer to Item 6.19.2	nr	-
6.11	Pinhole Test	Refer to Item 6.6.5	nr	-

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ6-1/5

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 6 : Laboratory Tests

Item	Description of Work	Test Reference	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated			
6.12	<u>Soil Compaction Tests</u>	BS1377: 1990		
6.12.1	Carry out compaction test on remoulded samples, following the testing procedure as mentioned in the test numbers, but with only one specimen at a given moisture content:-			
6.12.1.1	2.5kg rammer - 1.0 Litre mould up to medium gravel	-Part 4, Method 3.3	nr	125.00
	2.5kg rammer - 2.3 Litre mould up to coarse gravel	-Part 4, 3.4	nr	140.00
6.12.1.2	4.5kg rammer - 1.0 Litre mould up to medium gravel	-Part 4, 3.5	nr	165.00
	4.5kg rammer - 2.3 Litre mould up to coarse gravel	-Part 4, 3.6	nr	175.00
6.12.1.3	With a vibrating hammer for granular soils	-Part 4, 3.7	nr	135.00
6.13	<u>Detailed compaction studies</u>			
6.13.1	Carry out compaction test with a 2.5kg hammer on remoulded samples:-			
6.13.1.1	At least 5 specimens at difference moisture shall be compacted to obtain the curve of "dry density against moisture content"	-Part 4, Method 3.3	set	600.00
6.13.1.2	Firstly, compaction tests same as item 6.13.1.1 shall be carried out. Secondly for each of the specimen compacted, unsoaked California Bearing Ratio shall be carried out on both the top and bottom of the specimen. The curve of "CBR against moisture content" shall also be reported.	-Part 4, 7.2	set	900.00
6.13.1.3	Ditto the 4 days soaked CBR test shall be carried out instead of the unsoaked CBR	-Part 4, 7.3	set	1,000.00
6.13.1.4	Ditto unsoaked CBR test shall be carried out on the top of the specimen and soaked CBR test shall be carried out on the bottom of the specimen.	-	set	1,100.00
6.13.2	Carry out compaction test with a 4.5kg hammer on remoulded samples:-			
6.13.2.1	At least 5 specimens at difference moisture shall be compacted to obtain the curve of "dry density against moisture content"	-Part 4, Method 3.5	set	650.00
6.13.2.2	Firstly, compaction tests same as item 6.13.2.1 shall be carried out. Secondly for each of the specimen compacted, unsoaked California Bearing Ratio shall be carried out on both the top and bottom of the specimen. The curve of "CBR against moisture content" shall also be reported.	-Part 4, 7.2	set	1,000.00
6.13.2.3	Ditto the 4 days soaked CBR test shall be carried out instead of the unsoaked CBR	-Part 4, 7.3	set	1,100.00
6.13.2.4	Ditto unsoaked CBR test shall be carried out on the top of the specimen and soaked CBR test shall be carried out on the bottom of the specimen.	-	set	1,200.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ6-2/5

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 6 : Laboratory Tests

Item	Description of Work	Test Reference	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated			
6.14	<u>Carry out compaction test with a vibrating hammer on remoulded samples:-</u>	BS1377: 1990		
6.14.1	At least 5 specimens at difference moisture shall be compacted to obtain curve of "dry density against moisture content"	-Part 4, Method 7.2.4.5	set	750.00
6.14.2	Firstly, compaction tests same as item 6.14.1 shall be carried out. Secondly for each of the specimen compacted, unsoaked California Bearing Ration shall be carried out, on both the top and bottom of the specimen. The curve of "CBR against moisture content shall also be reported.	-Part 4, 7.2	set	1,100.00
6.14.3	Ditto the 4 days soaked CBR test shall be carried out instead of the unsoaked CBR	-Part 4, 7.3	set	1,200.00
6.14.4	Ditto unsoaked CBR test shall be carried out on the top of the specimen and soaked CBR test shall be carried out on the bottom of the specimen.	-	set	1,300.00
6.14.5	<u>Maximum and Minimum Dry Densities</u>	BS1377: 1990		
6.14.5.1	Maximum density of sands	-Part 4, Method 4.2	nr	350.00
6.14.5.2	Maximum density of gravelly soils	-Part 4, 4.3	nr	350.00
6.14.5.3	Minimum density of sands	-Part 4, 4.4	nr	250.00
6.14.5.4	Minimum density of gravelly soils	-Part 4, 4.5	nr	250.00
6.14.5.5	Bulk and dry density by linear measurement	-Part 2, 3.2, & 7.2	nr	65.00
6.14.5.6	Derivation of density index (relative density) inclusive of items 6.14.5.1 to 6.14.5.5	-Part 4, 4.6	set	750.00
6.14.5.7	Vibrating hammer	-Part 4, 3.7	set	750.00
6.15	<u>Soils Strength Tests</u>			
6.15.1	Carry out strength tests on undisturbed samples:-			
6.15.1.1	Unconfined compression strength (UC)	BS1377: 1990		
6.15.1.1.1	38mm diameter, 1 specimen	-Part 7, Method 7.2	nr	65.00
6.15.1.1.2	50mm diameter, 1 specimen	-Part 7, 7.2	nr	85.00
6.15.1.1.3	70/72mm diameter, 1 specimen	-Part 7, 7.2	nr	100.00
6.15.1.1.4	38mm diameter, 3 specimen	-Part 7, 7.2	set	120.00
6.15.1.1.5	50mm diameter, 3 specimen	-Part 7, 7.2	set	225.00
6.15.1.1.6	70/72mm diameter, 3 specimen	-Part 7, 7.2	set	285.00
6.15.1.2	Unconsolidated undrained triaxial compression without pore water pressure measurement (UU):-	BS1377: 1990		
6.15.1.2.1	38mm diameter, 1 specimen	-Part 7, Method 8.4	nr	85.00
6.15.1.2.2	50mm diameter, 1 specimen	-Part 7, 8.4	nr	100.00
6.15.1.2.3	70/72mm diameter, 1 specimen	-Part 7, 8.4	nr	115.00
6.15.1.2.4	38mm diameter, 3 specimen	-Part 7, 8.4	set	225.00
6.15.1.2.5	50mm diameter, 3 specimen	-Part 7, 8.4	set	285.00
6.15.1.2.6	70/72mm diameter, 3 specimen	-Part 7, 8.4	set	335.00
6.15.1.3	Unconsolidated undrained triaxial compression with pore water pressure measurement (UU pwp):-	K.H.Head, Vol. 3		
6.15.1.3.1	38mm diameter, 3 specimen	-	set	800.00
6.15.1.3.2	50mm diameter, 3 specimen	-	set	950.00
6.15.1.3.3	70/72mm diameter, 3 specimen	-	set	1,050.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ6-3/5

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 6 : Laboratory Tests

Item	Description of Work	Test Reference	Unit	Rate (RM)
6.15.1.4	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated Consolidated undrained triaxial compression test with pore water pressure (CU pwp up to 3 days - per set using 3 machines)	BS1377: 1990		
6.15.1.4.1	38mm diameter, 3 specimen	-Part 8, 1~6 & 7	set	1,100.00
6.15.1.4.2	50mm diameter, 3 specimen	-Part 8, 1~6 & 7	set	1,700.00
6.15.1.4.3	70/72mm diameter, 3 specimen	-Part 8, 1~6 & 7	set	2,100.00
6.15.1.4.4	Additional days to Item 6.15.1.4 and 6.15.1.5		day	500.00
NOTE	Example: Item 6.15.1.4.3 - for predominant CLAY up to 15 days	Pro-rated if <15 days	set	8,100.00
6.15.1.5	Consolidated drained triaxial compression test with pore water pressure (CD pwp up to 4 days - per set using 3 machines)	BS1377: 1990		
6.15.1.5.1	38mm diameter, 3 specimen	-Part 8, 1~6 & 8	set	2,000.00
6.15.1.5.2	50mm diameter, 3 specimen	-Part 8, 1~6 & 8	set	2,400.00
6.15.1.5.3	70/72mm diameter, 3 specimen	-Part 8, 1~6 & 8	set	2,800.00
NOTE	Example: Item 6.15.1.5.3 - for predominant CLAY up to 15 days	Pro-rated if <15 days	set	8,300.00
6.15.1.6	Extra over - Prepare test specimen for items 6.15.1.1 to 6.15.1.5:	-Part 7, 8.3.3.2(c)		
6.15.1.6.1	Reconstitute from UD or block sample at natural MC and density for 3 specimens		set	200.00
6.15.1.6.2	Reconstitute from disturbed bulk sample at specified MC and density based on compaction or compactive effort for 3 specimens		set	400.00
6.15.1.6.3	Soil lathe trimming from block sample for 3 specimens		set	500.00
6.16	Carry out California Bearing Ratio test on one specimen of remoulded sample after compacting (Compaction measurement together) the sample to the procedure stated in item 6.12.1.1 (2.5kg rammer)	BS1377: 1990 -Part 4, Method 3.3		
6.16.1	Unsoaked CBR on the top and bottom of the specimen	-Part 4, 7.2	nr	200.00
6.16.2	Soaked CBR on the top and bottom of the specimen	-Part 4, 7.3	nr	250.00
6.16.3	Unsoaked CBR on the top of the specimen and soaked CBR on the specimen	-	nr	280.00
6.16.4	Extra over item 6.17 when the compaction as in accordance with the procedure stated in item 6.12.1.2 (4.5 kg rammer)	-Part 4, Method 3.5	nr	50.00
6.17	Drained Shear Box Test	BS1377: 1990		
6.17.1	Determination of Shear Strength by direct Shear (Small Shearbox) - 60mm square (MS1056:2005, Part 7)	-Part 7, Method 4	set	950.00
6.17.2	Determination of Shear Strength by direct Shear (Small Shearbox) - 100mm square (MS1056:2005, Part 7)	-Part 7, Method 4	set	1,800.00
6.17.3	Determination of Shear Strength by direct Shear (Large Shearbox) - 305mm square (MS1056:2005, Part 7)	-Part 7, Method 5	set	3,000.00
6.18	Compressibility Tests	BS1377: 1990		
6.18.1	Oedometer 1-D Consolidation (up to 10 days)	-Part 5, Method 3		
6.18.1.1	Standard 7 loadings and 3 unloadings (with t90 graphs)	-Part 5, 3.5	nr	600.00
6.18.1.2	Secondary consolidation or creep (t50 and t90 graphs)		nr	700.00
NOTE	Example 6.18.1.2 - Extra over 1 day @RM60.00 per day	1 cycle loads & unloads	nr	760.00
	Select 6.18.1.1 or 6.18.1.2 and determine the extra days >10 days to add cost for additional duration (Item No 6.18.1.6).	2 cycle loads & unloads	Refer to items rate	
6.18.1.3	Swelling pressure determination	-Part 5, 4.3	nr	450.00
6.18.1.4	Measurement of swelling	-Part 5, 4.4	nr	800.00
6.18.1.5	Settlement on saturation	-Part 5, 4.5	nr	1,600.00
6.18.1.6	Additional duration (>10 days) to item 6.18.1		day	60.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ6-4/5

The Malaysian Site Investigators Association (MSIA)

MSIA Schedule Of Rates

Bill No:- 6 : Laboratory Tests

Item	Description of Work	Test Reference	Unit	Rate (RM)
	NOTES: All tests are referred to MS 1056:2005 / BS 1377:1990 and MS 2038:2006 / BS 5930:2015, unless otherwise stated			
6.19	<u>Other Total Stress Test</u>			
6.19.1	Pocket penetrometer	-	nr	45.00
6.19.2	Pilcon Hand Vane Tests	-	nr	45.00
6.20	<u>Permeability Tests</u>	BS1377: 1990		
6.20.1	Carry out constant head permeability test for granular soils (MS1056:2005, Part 5)	-Part 5, Method 5		
6.20.1.1	Sample size: Dia.90mm		nr	600.00
6.20.1.2	Sample size: Dia.114mm		nr	900.00
6.20.2	Carry out triaxial constant head permeability test for cohesive soils	-Part 6, Method 6		
6.20.2.1	38mm diameter, 1 specimen		nr	650.00
6.20.2.2	50mm diameter, 1 specimen		nr	750.00
6.20.2.3	70mm diameter, 1 specimen		nr	900.00
6.20.3	Falling head method for cohesive soils	K.H.Head, Vol. 2	nr	600.00
6.21	<u>Rock Core Tests</u>			
6.21.1	Core Compressive Strength	ASTM D2938	nr	300.00
6.21.2	Ditto with Young Modulus	ASTM D3148	nr	475.00
6.21.3	Ditto with Young Modulus & Poisson Ratio	ASTM D3148	nr	675.00
6.21.4	Point Load Test	ASTM D5371	nr	200.00
6.22	<u>Soils/Water Chemical Tests</u>			
6.22.1	Carry out chemical tests on soil or water samples:	BS1377: 1990		
6.22.1.1	Organic mater content	-Part 3, Method 3	nr	100.00
6.22.1.2	Loss on ignition	-Part 3, 4	nr	-
6.22.1.3	Total sulphate content	-Part 3, 5	nr	100.00
6.22.1.4	Sulphate content of ground water	-Part 3, 5	nr	100.00
6.22.1.5	pH value	-Part 3, 9	nr	65.00
6.22.1.6	Chloride Content	-Part 3, 7	nr	100.00
6.22.1.7	Total dissolved solids	-Part 3, 8	nr	100.00
6.22.1.8	Total suspended solids	Apha 2540D	nr	100.00
6.22.1.9	Resistivity of soil or water by Wenner 4-electrode method	ASTM G57	nr	500.00

Note: All rates subject to Goods and Services Tax (GST) charge of 6% where applicable.

MSIA/Rate/2017

BQ6-5/5



GEL-PUSH SAMPLER

PATENTED

Advance Technology from Japan

Gel-Push Sampler is specially designed to contain liquid polymer inside to reduce the friction between sample core and sampler tube in the course of sampling. With Gel-Push Samplers, we overcame the difficulty in sampling undisturbed soil samples on fragile soft ground.

- Patented Gel-Push Sampler (diameter range 75mm—300mm)
- Suitable for various types of ground (sandy soil; gravel; fractured rock, etc.)



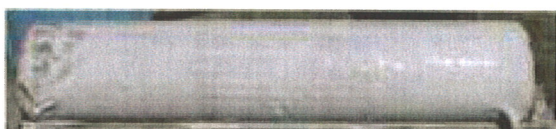
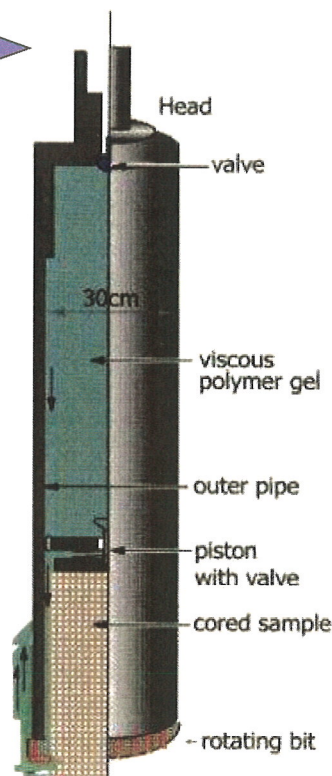
SAMPLED BY GP-R (300mm)
FILL MATERIAL OF A ROAD



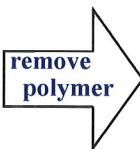
SAMPLED BY GP-R (300mm)
VERY HARD GRAVELS
WITH SOFT SANDS



SAMPLED BY GP-R (300mm)
GRAVELS AND FINES



Sample core covered in liquid polymer



Undisturbed sample core of dense sand
(Ø200mm)

Kiso-Jiban Overview

- Established in 1953 in Japan.
- In Malaysia over 30 years
- Well-known for high technology, high reliability

Services:

1. Soil Investigation
2. Laboratory Testing (Soil & Rock)
3. Geotechnical Analysis
4. Instrumentation Works

Kisojiban

PEOPLE, DREAMS, TECHNOLOGY

KISO-JIBAN (MALAYSIA) SDN. BHD. (24904-W)

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47100 Puchong, Selangor Darul Ehsan.

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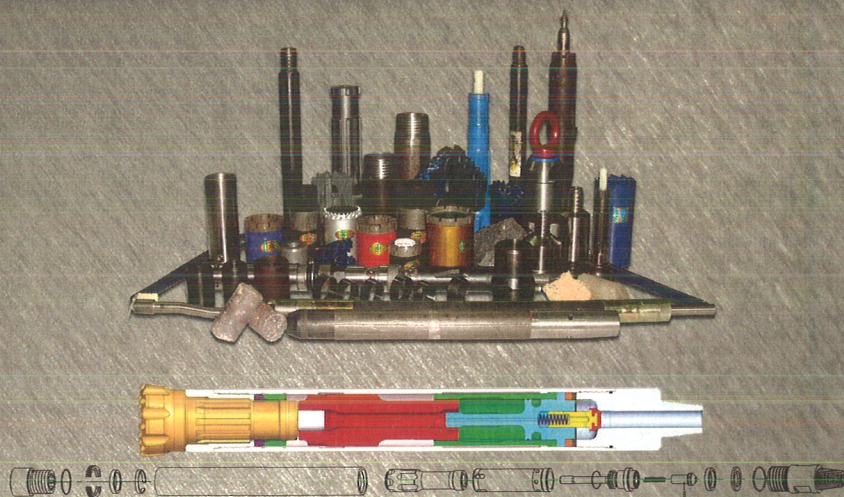
DRILLTECH TRADING COMPANY

INTRODUCTION

We were established in 1983 and have been representing internationally based diamond tools, drilling equipments & accessories manufacturers for both the local and Asian markets.

Our clients include private and government linked companies from various fields involved in the Construction Industry, Mineral Exploration, Water Well Drilling, Soil Investigation and Soil Nailing. Based on our vast experience in this industry, we have been able to maintain the high standards and quality needed by giving the best choice of products and solutions to our clients.

Since the industry has been paving the way for us with their own demands for better and more cost effective ways to provide their services, we have also evolved by providing both consultative as well as resources for our client's requirements. Part of our current services includes providing knowledge based fabrication services and at the same time providing the feedback to our principles for better and well engineered designs using the most advanced technology in the drilling industry.



OUR PRODUCT RANGE

Drilling Products

Local and imported Top Drive Drilling Rigs and imported FMC Triplex Pumps with high pressure configurations.

FLUSH JOINT CASING				
SIZE TYPE	O.D. mm	I.D. mm	TPI	Kg/M
EW	48.0	38.1	4	13
AW	57.1	48.4	4	18
SW	73.0	60.3	4	31
HW	88.9	76.2	4	39
HW	114.3	101.6	4	51
PW	139.7	127.0	3	69
SW	168.2	152.4	3	88

METRIC CORE BITS			
SIZE TYPE	CORE DIA mm	HOLE DIA mm	
TT45	25.3	46.3	
TT86	45.2	86.3	
T76	61.7	76.3	
TT01	82.7	101.3	

CASING SHOE BITS			
SIZE TYPE	CORE DIA mm	HOLE DIA mm	
NW	76.0	81.8	
HW	98.7	117.5	
PW	123.8	142.5	
SW	148.7	172.5	

COMPOSITE DRILL RODS				
SIZE TYPE	O.D. mm	I.D. mm	TPI	Coil/Lg Kg/M
AS	42.1	38.0	4	22.5 10.2
SS	52.0	38.0	3	22.5 14.1
AW/AWJ	42.1	38.1	3	18.0 11.0
AW/AWJ	44.4	37.4	5	18.0 12.0

BIT GUIDELINES - IMPREGNATED BITS															
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
GREEN															
	RED														
		YELLOW													
			SILVER												
				BLUE											
					T77										
						T84									
							TA90								
								TA100							
									TA110						
										TA120					
											TA130				
												TA150			

WIRELINE CORE BITS		
SIZE TYPE	CORE DIA mm	HOLE DIA mm
AQ	27.0	48.0
BQ	35.5	60.0
NQ	47.5	75.7
HQ	63.5	96.0
PQ	85.0	122.8
BQ/TT	32.5	60.0
NQ/TT	45.0	75.7
HQ/TT	61.1	96.0
PQ3	83.0	122.8
NQ3	50.5	75.7
HQTK	65.23	93.8

LC TRIPLE TUBE CORE BITS		
SIZE TYPE	CORE DIA mm	HOLE DIA mm
BM/LC	35.2	60.0
NM/LC	52.0	75.7
HL/MC	63.5	99.2
4 1/2" x 3 C	76.2	111.1
5 1/2" x 4 C	101.6	130.7
7 1/2" x 5 1/2 C	146.1	190.8
10 1/2" x 8 C	202.7	280.3

HARD BOND VERY COARSE GRAINED ABRASIVE OR FRACTURED ROCK MEDIUM HARD COMPETENT AND MEDIUM TO FINE GRAINED ROCK HARD TO VERY HARD MEDIUM TO FINE GRAINED ROCK NON ABRASIVE SUPER HARD ULTRA FINE GRAINED ROCK SOFT BOND

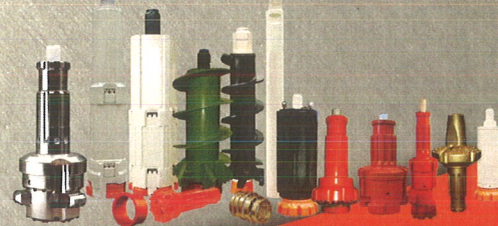
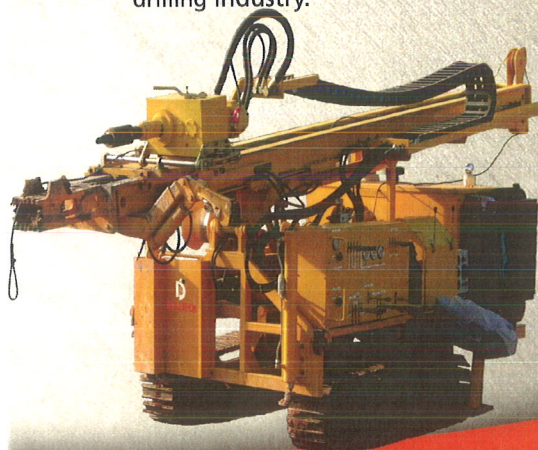
DRILLING GUIDELINES

TT46	450 - 1350 kgs / 1000 - 3000 lbs	TT46/A size	1000 to 1800 rpm
TT56	900 - 1800 kgs / 2000 - 4000 lbs	TT56/B size	850 to 1550 rpm
BQ	900 - 2800 kgs / 2000 - 6000 lbs	N size	620 to 1200 rpm
NQ	1350 - 2800 kgs / 3000 - 6000 lbs	H size	400 to 880 rpm
HQ	1800 - 2800 kgs / 4000 - 8000 lbs	P size	300 to 580 rpm
PQ	2270 - 4500 kgs / 5000 - 9950 lbs		

DRILL RODS				
SIZE TYPE	O.D. mm	I.D. mm	TPI	Kg/M
AQ	44.5	34.9	4	14
BQ	55.6	46.0	3	18
NQ	68.9	60.3	3	24
HQ	88.9	77.8	3	35
PQ	117.5	102.2	3	47

Drilling Accessories

165, 190, 240 & other sizes of Tubex System, Hoisting Plugs, Recovery Caps, API Drill Rods, Conventional Drill Rods, Wireline Drill Rods, Water Swivels, DTH Hammers, Screw Hammers, Button Bits, Steel Tooth & TCI Tricon Roller Bits, Tungsten Insert Roller Bits, Drag Bits, Diamond Bits / Reamers, Casing Shoe, Casing Advancer, Conventional Core Barrels, Knuckle Head Wireline Core Barrels, Steel Casings for Overburden, uPVC plain pipes & screens for Water Wells, various types of Drilling Mud...



We are authorised agents for the following brands of Drilling Equipment & Accessories



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