

**COMPANY PROFILE** 

Name of Company: Type of Registration: Registration No./MyCoID:	INDUSTRIAL LABORATORIES SDN. BHD. ROC – SENDIRIAN BERHAD 1189789-M
Office Address:	12-10, LEVEL 12 PLAZA AZALEA PERSIARAN BANDARAYA SECTION 14 40000 SHAH ALAM, SELANGOR MALAYSIA
Telephone:	+603 5523 4848
Email: Website:	<u>sales@industrial-labs.com</u> <u>www.industrial-labs.com</u>
Registered Address:	12-10, LEVEL 12 PLAZA AZALEA PERSIARAN BANDARAYA, SECTION 14 40000 SHAH ALAM SELANGOR, MALAYSIA
Factory Address	58 &60, JALAN BJ 6 TAMAN PERINDUSTRIAN BELMAS JOHAN RAWANG 48000 SELANGOR MALAYSIA
Director(s):	<ol> <li>SHAMSUL AZHAR BIN SHAMSUDIN</li> <li>FAIRUS BIN SAKIMAN</li> </ol>
Ministry of Finance Certificate No.: Registration Reference No.: Type of Business:	K22172727321653939 357-02261532 DESIGN, SUPPLY AND MAINTENANCE OF LABORATORY EQUIPMENT, FURNITURE AND ENGINEERING SYSTEMS

### **Management Profile**



Shamsul Azhar Shamsudin Managing Director

Mr. Shamsudin has a vast experience in sales and marketing, particularly in areas of stockbroking, education and industrial laboratories. He's involvement in educating current lab personnel and prospects in issues pertaining to safety and health leads to his success in this field. This approach was widely used when he was holding a regional Sales Manager position at Erlab Southeast Asia.

His success includes delivering laboratory solutions to significant projects such as Pusat Kecemerlangan Teknologi Nasional (Create) in Melaka, Universiti Teknologi MARA Dengkil, Sabah Ammonia Urea (SAMUR) for PETRONAS Chemicals Berhad in Sipitang, and Klinik Kesihatan Komuniti Kuala Lumpur. The most recent success was the project to refurbish 7 school laboratories. This job required him and his team to newly design a layout of the current lab to suit the national aspiration to embrace science, technology, engineering and mathematics (STEM) approach. At Servco Resources, he was the one managing new laboratory projects in schools, working closely with the then NBOS-PILS of the Ministry of Education back in 2015 and early 2016.

### MANAGEMENT TEAM MEMBERS

 SHAMSUL AZHAR SHAMSUDIN, Managing Director Tertiary Qualification: Bachelor of Arts, Economics University of Missouri – Columbia, USA

Managerial Experience:

- 1. General Manager, Servco Resources Sdn Bhd (2014-2016);
  - 2. Regional Sales Manager, Erlab Southeast Asia (2011-2014);
  - 3. Head of Business Development, ASR Padu Sdn Bhd (2009-2011);
  - 4. Årea Sales Manager, SWM Resources Sdn Bhd (2007-2009);
  - 5. Head, Marketing Department, Kolej Yayasan Melaka (2000-2007)
- 2. FAIRUS SAKIMAN, Chief Operating Officer Tertiary Qualification: Diploma in Mechanical Engineering Politeknik Ungku Omar
- Work1. Technical Executive, Servco Resources Sdn Bhd<br/>(2013-2016);
  - 2. Technical Executive, Competent Alliance Sdn Bhd (2007-2013);
  - 3. Production Executive, Kumpulan Novalab (2000-2007)

### **MODUS OPERANDI**

The following explains how we do our business:

- 1. Meet clients to understand their requirements;
- 2. Design laboratory layouts based on requirements;
- 3. Issuance of quotation and shop drawings for clients approval;
- 4. Issuance of invoice for 30-50% down-payment depending on client type;
- 5. Begin production of goods once payment received;
- 6. Delivery of goods on site;
- 7. Issuance of invoice for 50-70% progress payment based on materials on site;
- 8. Installation works;
- 9. Issuance of final invoice for the remaining balance upon testing and commissioning;
- 10. End of process.

### **MARKETING MIX**

Target Market

- 1. Public and private institutions of higher learning;
- 2. Factories with Research & Development and Quality Control/Assurance facilities;
- 3. Public hospitals;
- 4. Public research facilities like Makmal Keselamatan dan Kualiti Makanan and Pusat Biosekuriti Perikanan; and
- 5. Public and private schools.

**Products and Services** 

- 1. Laboratory furniture;
- 2. Laboratory equipment such as GFAAS, HPLC and ICP-MS;
- 3. Laboratory Personal Protection Equipment (PPE);
- 4. Labware;
- 5. Design of laboratory layout and engineering systems;
- 6. Design of Local Exhaust Ventilation (LEV) system;
- 7. Design of Heat Ventilation Air Conditioning (HVAC) system; and
- 8. Application works for Written Approval from Department of Occupational Safety and Health (DOSH) and Department of Environment (DoE);

Marketing Channels

- 1. Area marketing agents: Dr Rahmatullah Holdings Sdn Bhd for northern region and Permula Sdn Bhd for east coast and Johor regions;
- 2. Direct sales through own sales team effort and website for central Peninsular region;
- 3. Online Vendor Systems such as the ones by Universiti Malaya, Sime Darby, Tenaga Nasional, and Felda.

### Pricing

Our pricing varies according to type of projects that we quote in order to ensure high success probability. Our net profits are normally between 10-50% depending on the degree of competition. The more competitive a bid is, the lower the net profit will be. Kindly refer to the separate sheet on list of suppliers and the respective credit terms.

### **PROJECTS & WORK EXPERIENCES**

Major List of projects involved: Since June 2016

NO	Project Title	Products/ Services	Users	Role And Task	Month & Year	Person in Charge (Client)
1	Supply of desktop double entry fume hood	Fume hood	Pusat Biosekuriti Perikanan Kuala Lumpur	Design and Supply	August 2016	Rohana Shapiin
2	Design and Supply of Outdoor Wet Chemical Scrubber at Universiti Malaysia Perlis.	Wet Scrubber for Acid Vapors	Micro- electronic Labs, Universiti Malaysia Perlis	Design and Supply	November 2016	Dr. Muhammad Mahyuddin Ramli
3	Ductwork Upgrading at Block 8, Pusat Pengajian Kejuruteraan Mikroelektronik, Universiti Malaysia Perlis.	Local Exhaust Ventilation	Micro- electronic Labs, Universiti Malaysia Perlis	Design and Supply	May 2017	Dr. Muhammad Mahyuddin Ramli
4	Design and Supply of Laboratory Sinks and Captair <sup>®</sup> HALO.	Lab Furniture & LEV	Rakyat Management Services Sdn Bhd	Design and Supply	May 2017	Dzulnuren Dzakaria
5	Perform Baseline Local Exhaust Ventilation Assessment at Sabah Urea Ammonia Complex, Sipitang, Sabah (PETRONAS Chemicals Fertiliser Sabah Sdn. Bhd.)	Local Exhaust Ventilation	PETRONAS Chemicals	Measure and submit reports to Dept of Occupatio- nal Safety and Health	May 2017	Damien Ong
6	Design and Supply of A Desktop Single Entry Fume Hood to Fishery Research Institute, Gelang Patah.	Local Exhaust Ventilation	Fishery Research Institute, Gelang Patah	Design and Delivery of Complete System	May 2017	Faiz Zulkifli

NO	Project Title	Products/ Services	Users	Role And Task	Month & Year	Person in Charge (Client)
7	Design and Supply of A Fume Hood System with Base Cabinet at the Universiti Teknologi Malaysia	Local Exhaust Ventilation	Dept of Physics, Universiti Teknologi Malaysia	Design and Delivery of Complete System	July 2017	Faiz Zulkifli
8	Design and Supply of 2 Fume Hood Systems with Base Cabinets at Universiti Malaysia Perlis	Local Exhaust Ventilation	Uniciti Campus, Univ Malaysia Perlis	Design and Delivery of Complete System	Aug 2017	Muhd Shafir Yuzlani
9	Supply and Installation of Laboratory Furniture System to Klinik Rantau PETRONAS, Kerteh	Laboratory Furniture	PETRONAS East Coast Regional Office	Supply and Install	September 2017	Nur Shafida Omar
10	Supply and Installation of Fume Hoods to Ar-Rahnu YaPEIM Outlets	Fume Hoods	Ar-Rahnu YaPEIM	Supply and Install	October 2017	Noorhafida Talib
11	Supply and Installation of Laboratory Grade Sinks and Fittings to Politeknik Kuala Terengganu	Laboratory Furniture	Politeknik Kuala Terengganu	Supply and Install	October 2017	Faiz Zulkifli
12	Supply of 25 units of Chemical Storage Cabinets CSC834 to the Universiti Teknologi Malaysia, Skudai	Engineering Control Equipment	Dept of Chemistry, Univ Teknologi Malaysia	Supply and Install	November 2017	Faiz Zulkifli
13	Laboratory Refurbishment at Idaman Pharmaceutical Manufacturing Plant, Sungai Petani	Laboratory Furniture	PharmaNiaga Sungai Petani	Demolish, Supply and Install	January 2018	Muhd Shafir Yuzlan
14	Laboratory Refurbishment at 119 rooms in 54 secondary schools throughout the State of Perak	Laboratory Furniture	Ministry of Education, Malaysia	Demolish, Supply and Install	March 2018	Wan Zulkifli Wan Muhamad

NO	Project Title	Products/ Services	Users	Role And Task	Month & Year	Person in Charge (Client)
15	Design and Supply of Laboratory Furniture System to the Univ Teknologi MARA, Shah Alam	Laboratory Furniture	Applied Sciences Faculty, Univ Teknologi MARA, Shah Alam	Design, Fabricate, and Install	July 2018	Ir. Fazli Mokhtarud din
16	Design and Supply of Ductless Fumehoods	Laboratory Equipment	Dept of Physics, Univ Teknologi Malaysia	Design, Fabricate and Install	Jan 2019	Faiz Zulkifli
17	Design and Supply of New Ducting System	Local Exhaust Ventilation	Dept of Physics, Univ Teknologi Malaysia	Design, Fabricate and Install	Feb 2019	Faiz Zulkifli
18	Design and Supply of New Ducting System	Local Exhaust Ventilation	Dept of Medicine, Univ Malaysia Terengganu	Design, Fabricate and Install	Apr 2019	Faiz Zulkifli

### **BUSINESS PARTNERSHIP**

- 1. ERLAB GROUP OF FRANCE
- 2. GBC OF AUSTRALIA;
- 3. SAMIN SCIENCE OF SOUTH KOREA;
- 4. BADLIE AZMAN ENTERPRISE;
- 5. DURCON SOUTHEAST ASIA;
- 6. CAMFIL ASIA;
- 7. MAJU ASIAMAS SDN BHD; AND
- 8. SURIA PEMBEKAL (SCIENTIFIC EQUIPMENT)

### **PROJECT REFERENCE**



Fume Hood & Local Exhaust Ventilation Installation, Universiti Teknologi Malaysia



Fume Hood & Local Exhaust Ventilation Installation, Universiti Malaysia Perlis

Design and Build, Laboratory Furniture System at Klinik Rantau PETRONAS, Kerteh

















Laboratory Refurbishment at Idaman Pharmaceutical Manufacturing Plant, Sungai Petani



Before refurbishment



After refurbishment

School Laboratory Renovation and Upgrading Works in Perak (2018-2019)



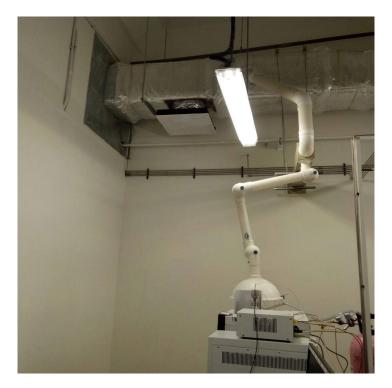
Before refurbishment



After refurbishment

Baseline Assessment for Local Exhaust Ventilation System at Sabah Urea Ammonia (SAMUR) plant in Sipitang, Sabah.





### CREDENTIALS



### KEMENTERIAN KEWANGAN MALAYSIA

### SIJIL AKUAN PENDAFTARAN SYARIKAT

NO. SIJIL

: K22172727321653939

: 01/08/2016 - 31/07/2019

NO. RUJUKAN PENDAFTARAN

: 357-02261532

TEMPOH SAH LAKU

Bahawa dengan ini diperakui syarikat :

INDUSTRIAL LABORATORIES SDN. BHD. ( 1189789-M )

12-10, PLAZA AZALEA PERSIARAN BANDARAYA, SEKSYEN 14 PETALING 40000 SHAH ALAM SELANGOR, MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang bekalan/perkhidmatan di bawah sektor, bidang dan sub-bidang seperti di Lampiran A. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B. Individu yang diberi kuasa oleh syarikat bagi urusan perolehan Kerajaan adalah seperti berikut :

SHAMSUL AZHAR BIN SHAMSUDIN

740224145609

PENGARAH URUSAN

t.t

DATO' ZAMZURI BIN ABDUL AZIZ Perbendaharaan Malaysia Semenanjung *b.p.* Ketua Setiausaha Perbendaharaan Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 01/08/2016

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

NO SIJIL NO RUJUKAN PENDAFTARAN : 357-02261532 TEMPOH SAH LAKU

: K22172727321653939

: 01/08/2016 - 31/07/2019

BIL	TARIKH DAFTAR BIDANG	KOD BIDANG	KETERANGAN	STATUS
1	01/08/2016	020101	PERABOT, PERALATAN PEJABAT, HIASAN DALAMAN DAN DOMESTIK/ PERABOT, KELENGKAPAN DAN AKSESORI/ PERABOT,PERABOT MAKMAL DAN KELENGKAPAN BERASASKAN KAYU/ROTAN/FABRIK/LOGAM/PLASTIK	Aktif
2	01/08/2016	050101	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PERALATAN HOSPITAL, BAHAN DAN KELENGKAPAN PERUBATAN/ PERALATAN DAN KELENGKAPAN HOSPITAL	Aktif
3	01/08/2016	060101	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA MAKMAL	Aktif
4	01/08/2016	060501	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ PERALATAN MAKMAL/ PERALATAN MAKMAL SERTA AKSESORI	Aktif
5	01/08/2016	100101	PERALATAN SUKATAN DAN UKURAN/ PERALATAN SUKATAN DAN UKURAN/ SEMUA PERALATAN SUKATAN/UKURAN	Aktif
6	01/08/2016	120501	PERTAHANAN DAN KESELAMATAN/ PENGESANAN, PEMANTAUAN DAN PERLINDUNGAN/ KUNCI, PERKAKASAN PERLINDUNGAN DAN AKSESORI	Aktif
7	01/08/2016	130101	PERALATAN KEJURUTERAAN DAN MESIN PENGELUARAN/ MESIN, KELENGKAPAN BENGKEL DAN MESIN PENGELUARAN/ MESIN DAN KELENGKAPAN BENGKEL	Aktif
8	01/08/2016	220601	PERKHIDMATAN/ PENYELENGGARAAN/PEMBAIKAN PERALATAN/KELENGKAPAN PERUBATAN DAN MAKMAL/ ALAT KELENGKAPAN HOSPITAL/MAKMAL	Aktif
9	01/08/2016	221501	PERKHIDMATAN/ PENYEWAAN DAN PENGURUSAN/ PERABOT/KELENGKAPAN	Aktif
10	17/08/2016	210108	ICT (INFORMATION COMMUNICATION TECHNOLOGY)/ PERALATAN DAN KELENGKAPAN KOMPUTER, PERKAKASAN DAN KOMPONEN/ MULTIMEDIA-PRODUCTS, SERVICES AND MAINTENANCE	Aktif
11	06/03/2019	050102	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PERALATAN HOSPITAL, BAHAN DAN KELENGKAPAN PERUBATAN/ PERALATAN / KELENGKAPAN PERUBATAN	Aktif
12	06/03/2019	050203	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ UBAT DAN BAHAN UBATAN/ UBAT TIDAK BERJADUAL	Aktif
13	06/03/2019	050204	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ UBAT DAN BAHAN UBATAN/ MAKANAN/MINUMAN TAMBAHAN (FOOD SUPPLIMENT)	Aktif
14	06/03/2019	060102	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA INDUSTRI	Aktif
15	06/03/2019	060103	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA PEMPROSES AIR	Aktif
16	06/03/2019	060201	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ BAHAN BIOKIMIA DAN GAS/ BAHAN PELEDAK (BELERANG, PELARUT HIDROKABON DAN BEROKSIGEN / GUNPOWDER)	Aktif

17	06/03/2019	060204	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ BAHAN BIOKIMIA DAN GAS/ GAS (INDUSTRI DAN DOMESTIK)	Aktif
18	06/03/2019	060301	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ BAHAN BAKAR DAN PELINCIR/ BAHAN BAKAR	Aktif
19	06/03/2019	060302	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ BAHAN BAKAR DAN PELINCIR/ BAHAN PELINCIR	Aktif
20	06/03/2019	060502	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ PERALATAN MAKMAL/ PERALATAN MAKMAL PENGUKURAN, PENCERAPAN DAN SUKAT	Aktif
21	06/03/2019	090101	BAHAN BINAAN DAN PERALATAN KESELAMATAN JALAN RAYA/ BAHAN BINAAN/ BAHAN BINAAN	Aktif
22	06/03/2019	090102	BAHAN BINAAN DAN PERALATAN KESELAMATAN JALAN RAYA/ BAHAN BINAAN/ PAIP DAN KELENGKAPAN	Aktif
23	06/03/2019	090201	BAHAN BINAAN DAN PERALATAN KESELAMATAN JALAN RAYA/ PERALATAN KESELAMATAN JALAN RAYA/ PERALATAN KESELAMATAN JALAN RAYA/PERABOT JALAN RAYA	Aktif
24	06/03/2019	120102	PERTAHANAN DAN KESELAMATAN/ SENJATA, PELURU, BAHAN LETUPAN DAN AKSESORI/ PELURU DAN BOM	Aktif
25	06/03/2019	120201	PERTAHANAN DAN KESELAMATAN/ KELENGKAPAN SASARAN/ KELENGKAPAN SASARAN	Aktif
26	06/03/2019	120502	PERTAHANAN DAN KESELAMATAN/ PENGESANAN, PEMANTAUAN DAN PERLINDUNGAN/ PERALATAN PEMANTAUAN DAN PENGESANAN	Aktif
27	06/03/2019	220602	PERKHIDMATAN/ PENYELENGGARAAN/PEMBAIKAN PERALATAN/KELENGKAPAN PERUBATAN DAN MAKMAL/ MESIN DAN PERALATAN MAKMAL	Aktif
28	06/03/2019	221504	PERKHIDMATAN/ PENYEWAAN DAN PENGURUSAN/ KAPAL/BOT/BOT TUNDA/FERI/BOT MALIM/BARGE/JET SKI/KAPAL SELAM	Aktif
29	06/03/2019	221508	PERKHIDMATAN/ PENYEWAAN DAN PENGURUSAN/ PERALATAN/KELENGKAPAN HOSPITAL DAN MAKMAL	Aktif
30	06/03/2019	221509	PERKHIDMATAN/ PENYEWAAN DAN PENGURUSAN/ PERALATAN KESELAMATAN DAN SENJATA	Aktif

Nota : 1. Bilangan Tambah Bidang Pada 17/08/2016 : 1

2. Bilangan Tambah Bidang Pada 06/03/2019 : 20

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 01/08/2016

### SYARAT KELULUSAN SIJIL AKUAN PENDAFTARAN SYARIKAT

### 1. SYARAT AM

- 1.1 Kelulusan ini diberi berdasarkan maklumat-maklumat yang telah disampaikan oleh pihak syarikat tuan.
- 1.2 Apa-apa perubahan ke atas maklumat-maklumat tersebut hendaklah dibuat kemaskini secara *online* di <u>Modul Kemaskini Profil</u> di alamat <u>www.eperolehan.gov.my</u> dalam tempoh masa <u>dua puluh satu (21) hari</u> dari tarikh perubahan tersebut berlaku dan sekiranya gagal berbuat demikian boleh mengakibatkan tindakan seperti di para 1.5 di bawah.
- 1.3 Syarikat hendaklah mengemukakan segala maklumat dalam tempoh yang ditetapkan apabila diminta oleh Kementerian Kewangan Malaysia. Kegagalan berbuat demikian akan mengakibatkan tindakan seperti di para 1.5 di bawah.
- 1.4 Syarikat hendaklah memastikan bahawa bidang yang telah didaftarkan dalam sijil ini tidak bertindih dengan bidang yang telah diluluskan ke atas mana-mana syarikat seperti berikut:
  - 1.4.1 Mempunyai Pemilik atau Lembaga Pengarah/Pengarah, Pengurusan dan Pekerja yang sama; atau
  - 1.4.2 Beroperasi di premis yang sama.
- 1.5 Kementerian Kewangan Malaysia berhak untuk membuat lawatan atau pemeriksaan audit pada bila-bila masa tanpa dimaklumkan terlebih dahulu. Kegagalan mematuhi syarat-syarat pendaftaran, kod bidang dan/atau pendaftaran syarikat tuan boleh digantung/dibatalkan dan syarikat, Pemilik serta Lembaga Pengarah/Pengarah diambil tindakan tatatertib termasuk disenaraihitamkan tanpa apa-apa notis jika didapati maklumat yang diberi tidak benar.
- 1.6 Syarikat yang baru didaftarkan tidak dibenarkan membuat sebarang perubahan ke atas Pemilik atau Pengarah dalam tempoh enam (6) bulan daripada tarikh syarikat didaftarkan.
- 1.7 Kegagalan syarikat membuat permohonan pembaharuan pendaftaran selepas satu (1) tahun dari tarikh tamat tempoh pendaftaran boleh mengakibatkan pendaftaran syarikat dengan Kementerian Kewangan Malaysia akan dibatalkan dan dikeluarkan secara automatik daripada Sistem ePerolehan. Syarikat hendaklah membuat permohonan baru.

### 2. PENGGANTUNGAN/PEMBATALAN PENDAFTARAN

- 2.1 Pendaftaran syarikat akan digantung/dibatalkan sekiranya didapati syarikat melakukan kesalahan seperti berikut:
  - 2.1.1 Syarikat/pemilik/perkongsian/pengarah/mana-mana ahli pengurusan telah melakukan jenayah dan didapati bersalah oleh mahkamah di Malaysia atau luar negeri atau mengalami tanggungan sivil.
  - 2.1.2 Syarikat menarik balik tawaran sebelum tender dipertimbangkan atau menolak setelah tawaran dibuat.
  - 2.1.3 Syarikat gagal melaksanakan obligasi kontrak-kontrak yang telah ditandatangani dengan Kerajaan.
  - 2.1.4 Syarikat didapati meminda Sijil Akuan Pendaftaran Syarikat dengan tujuan menipu atau lain-lain maksud.
  - 2.1.5 Syarikat membenarkan Sijil Akuan Pendaftaran Syarikat disalahgunakan oleh individu/syarikat lain.
  - 2.1.5 Syarikat didapati membuat pakatan harga dengan syarikat-syarikat lain semasa memasuki tender Kerajaan atau subkontrak tanpa persetujuan terlebih dahulu daripada Agensi Kerajaan yang terlibat.

### 3. PEMBAHARUAN

- 3.1 Syarikat tuan hendaklah mengemukakan permohonan pembaharuan pendaftaran tiga (3) bulan sebelum tamat tempoh pendaftaran.
- 3.2 Permohonan yang diterima selepas tamat tempoh pendaftaran adalah dianggap pendaftaran pembaharuan.

### 4. HAK KERAJAAN

4.1 Sijil Akuan Pendaftaran Syarikat yang dikeluarkan secara *Virtual* adalah <u>HAK KERAJAAN</u>.Kerajaan berhak untuk <u>menarik balik</u> <u>pendaftaran/digantung/dibatalkan</u> sekiranya syarikat dikenakan tindakan tatatertib selaras dengan <u>1PP/PK8 (Pekeliling Perbendaharaan/</u> <u>Perolehan Kerajaan 8)</u>.

### 5. PENYERTAAN PEROLEHAN KERAJAAN

- 5.1 Dengan pengeluaran Sijil Virtual, Sijil ini tidak lagi perlu ditunjukkan semasa mengambil dokumen perolehan Kerajaan (pembelian terus, tender/sebut harga dan lain-lain kaedah perolehan) kecuali bagi Agensi Kerajaan yang tiada capaian internet.
- 5.2 Syarikat hendaklah memastikan pendaftaran dengan Kementerian Kewangan Malaysia masih sah laku sepanjang tempoh kontrak berkuat kuasa.

### 6. PERINGATAN MENGENAI KESALAHAN RASUAH

6.1 Sebarang perbuatan atau percubaan rasuah untuk menawar atau memberi, meminta atau menerima apa-apa suapan secara rasuah kepada dan daripada mana-mana orang berkaitan perolehan Kerajaan merupakan suatu kesalahan jenayah di bawah Akta Suruhanjaya Pencegahan Rasuah Malaysia 2009 [*Akta 694*].



### **BAHAGIAN PEMBANGUNAN KONTRAKTOR DAN USAHAWAN**

KEMENTERIAN PEMBANGUNAN USAHAWAN

### SIJIL KONTRAKTOR KERJA TARAF BUMIPUTERA

Adalah dengan ini syarikat tuan seperti tercatit di dalam Sijil ini diiktiraf sebagai kontraktor kerja bertaraf Bumiputera. Pemberian pengiktirafan ini adalah tertakluk kepada syarat-syarat termaktub di belakang sijil.

<u>NO. SIJIL PENDAFTARAN</u>	GRED PENDAFTARAN	KATEGORI	TEMPOH SAH LAKU
0120170928-SL003909	G3	в	DARI : 09/04/2019
	G3	CE	HINGGA : 28/09/2019
	G3	ME	

NAMA DAN ALAMAT BERDAFTAR

INDUSTRIAL LABORATORIES SDN. BHD. LOT 03-32, 3RD FLOOR PKNS COMPLEX 40000 SHAH ALAM SELANGOR PETALING

PEGAWAI SYARIKAT YANG DITAULIAHKAN

<u>NO. K/P</u>

SHAMSUL AZHAR BIN SHAMSUDIN

740224145609

(MARLINA BINTI RAMLY) PENGARAH Bahagian Pembangunan Kontraktor Dan Usahawan Kementerian Pembangunan Usahawan



Tarikh: 09/04/2019

### SYARAT-SYARAT PENGIKTIRAFAN TARAF BUMIPUTERA BPKU

### 1. SYARAT-SYARAT AM

- 1.1 Pemberian Sijil Taraf Bumiputera oleh BPKU ini dikeluarkan setelah syarikat berjaya memperbaharui Sijil Perolehan Kerja Kerajaan (SPKK) dan Perakuan Pendaftaran (PPK) di Lembaga Industri Pembinaan Malaysia (CIDB);
- 1.2. Pemberian Taraf Bumiputera ini tertakluk kepada maklumat-maklumat yang telah dikemukakan oleh syarikat;
- 1.3. Syarikat WAJIB mengemukakan perubahan maklumat kepada BPKU dengan serta-merta setelah membuat perubahan maklumat di CIDB tertakluk kepada kaedah dan medium yang digunakan oleh BPKU dari semasa ke semasa;
- 1.4. Syarikat dinasihatkan untuk melengkapkan dokumen berkaitan pembaharuan/permohonan baru/rayuan dalam tempoh masa yang ditetapkan merujuk kepada surat kuiri yang dihantar kepada syarikat;

### 2. SYARAT-SYARAT MUTLAK

- 2.1. Syarikat hendaklah sentiasa menjamin pada setiap masa memenuhi syarat-syarat pengiktirafan Taraf Bumiputera seperti berikut :-
  - 2.1.1. Sekurang-kurangnya 51% daripada pemilikan saham syarikat dimiliki oleh Bumiputera (G2-G7) manakala 100% (G1)
  - 2.1.2. Pemilikan individu Bumiputera hendaklah melebihi saham individu bukan Bumiputera;
  - 2.1.3. Sekurang-kurangnya 51% daripada Ahli Lembaga Pengarah syarikat dipegang oleh Bumiputera;
  - 2.1.4. Jawatan Ketua Eksekutif, Pengarah Urusan atau Pengurus Besar dan jawatan penting lain (keypost) hendaklah dipegang oleh Bumiputera;
  - 2.1.5. Sekurang-kurangnya 51% daripada pekerja syarikat hendaklah terdiri dari Bumiputera;
  - 2.1.6. Pengurusan kewangan hendaklah dikuasai oleh Bumiputera;
  - 2.1.7. Carta organisasi dan fungsi pengurusan syarikat hendaklah menunjukkan penguasaan oleh Bumiputera;
  - 2.1.8. Tidak mengsubkontrakkan keseluruhan kerja atau menyerahkan keseluruhan pengurusan sesuatu kontrak kepada pihak-pihak lain; dan
  - 2.1.9. Menjamin penyertaan kaum Bumiputera merupakan perkongsian aktif dan memainkan peranan utama dalam urus niaga syarikat seperti digambarkan di sub 2.1.1. hingga 2.1.8.

### 3. PERINGATAN

- 3.1. BAHAGIAN PEMBANGUNAN KONTRAKTOR DAN USAHAWAN berhak membatal, menarik balik atau menggantung Sijil Taraf Bumiputera syarikat jika didapati:
  - 3.1.1. Maklumat yang dikemukakan tidak benar atau palsu;
  - 3.1.2. Syarikat enggan dan gagal mengemukakan maklumat apabila diminta;
  - 3.1.3. Melanggar mana-mana syarat-syarat am/mutlak yang dikeluarkan oleh BPKU dan tertakluk kepada keputusan Pengarah BPKU dari masa ke semasa



Nombor Permohonan: B050220171002047772

Tarikh: 02/10/2017

### INDUSTRIAL LABORATORIES SDN. BHD.

UNIT 17.2, LEVEL 17 WISMA SUNWAY JALAN TENGKU AMPUAN ZABEDAH C9/C

Tuan,

### PERMOHONAN PERUBAHAN GRED / PENAMBAHAN KATEGORI / PENAMBAHAN PENGKHUSUSAN PENDAFTARAN KONTRAKTOR (PPK)

Dengan hormatnya merujuk kepada nombor permohonan dan perkara di atas. Sukacita dimaklumkan keputusan adalah **lulus** dan maklumat seperti berikut:

Gred	Kategori	Pengkhususan
G3	В	B04
G3	CE	CE21
G3	ME	M15
Alamat berdaftar (alamat yang akan tertera pada sijil)	LOT 03-32, 3RD FLOOF 40000 SHAH ALAM, SELANGOR	R PKNS COMPLEX
Daerah	PETALING	
Status Pengkelasan	BARU	
Tempoh Kelulusan	Mengikut tarikh tamat pe	endaftaran sedia ada
Yuran Pendaftaran	RM 0.00	
Cara Pembayaran	ii) Bayaran di kaunter C	ayment) – FPX atau Kad Kredit IDB – Tunai / Bank draf / Cek banker (Banker's Cheque) / ng atas nama Lembaga Pembangunan Industri Pembinaan
Tempoh Sahlaku Surat	16/10/2017	

2. Sijil Perakuan Pendaftaran Kontraktor hendaklah dicetak secara online oleh pihak kontraktor setelah Lembaga menerima bayaran tersebut. Surat kelulusan ini akan terbatal sekiranya melebihi tempoh sah laku seperti yang dinyatakan.

<sup>3.</sup> Tuan adalah diingatkan supaya menyimpan dokumen sokongan yang asal dalam tempoh 3 tahun bagi tujuan Semakan Kepatuhan Kontraktor (CCA). Maklumat yang telah di isytihar dianggap benar oleh Lembaga. Sekiranya terdapat percanggahan / pemalsuan maklumat, Lembaga berhak mengambil tindakan ke atas Perakuan Pendaftaran syarikat tuan.

Sekian, terima kasih

"MEMBINA KEJAYAAN ANDA"

### SURAT INI ADALAH CETAKAN KOMPUTER, TANDATANGAN TIDAK DIPERLUKAN

LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA IBU PEJABAT Anticipation of the second sec

Tingkat 10, Menara Dato' Onn, Pusat Dagangan Dunia Putra, No.45, Jalan Tun Ismail, 50480 Kuala Lumpur, MALAYSIA t • 6 03-4047 7000 f • 6 03-4047 7070 www.cidb.gov.my



### Sijil Pencapaian

Dengan ini disahkan bahawa

SHAMSUL AZHAR BIN SHAMSUDIN 740224145609

dari syarikat

INDUSTRIAL LABORATORIES SDN. BHD. 0120170928-SL003909

telah lulus

### KURSUS INTEGRITI & KOD ETIKA KONTRAKTOR

pada

### 03 OCT 2018

yang dianjurkan oleh

### LEMBAGA PEMBANGUNAN INDUSTRI PEMBINAAN MALAYSIA

dengan kerjasama

### SURUHANJAYA PENCEGAHAN RASUAH MALAYSIA

dan

### **INSTITUT INTEGRITI MALAYSIA**

t.t

**IR. SHARIFUDIN CHE OMAR** Pengarah Negeri CIDB Negeri Selangor

Tarikh : 08-10-2018

No. Kelulusan - ETIKA20180921-64817 [10 Mata CCD]

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

S/No: 3181



BHIC Marine Technology Academy Sdn. Bhd.

# Certificate of Achievement

This is to certify

FAIRUS BIN SAKIMAN

I/C NO: 780131-10-6009

Has Successfully Completed

## MODULE 1: BHIC SAFETY PASSPORT COURSE From $20^{\rm th}$ June 2016 to $21^{\rm st}$ June 2016

Issued By

BHIC Marine Technology Academy Sdn. Bhd. Boustead Naval Shipyard. Perak Darul Ridzuan Malaysia

Cdr Ebby Reezal Looi bin Abdullah (Rtd) BHIC Marine Technology Academy Sdn. Bhd. Chief Operating Officer

First Admiral Datuk Ir. Yahya bin Hashim (Rtd) Director

BHIC Marine Technology Academy Sdn. Bhd.

S/No: 3200



BHIC Marine Technology Academy Sdn. Bhd.

# Certificate of Achievement

This is to certify

## FAIRUS BIN SAKIMAN

I/C NO: 780131-10-6009

Has Successfully Completed

### MODULE 2: BASIC FIRE FIGHTING COURSE From 25<sup>th</sup> July 2016 to 26<sup>th</sup> July 2016

Issued By

BHIC Marine Technology Academy Sdn. Bhd. Boustead Naval Shipyard. Perak Darul Ridzuan Malaysia

53.5

Cdr Ebby Reezal Looi bin Abdullah (Rtd) Chief Operating Officer BHIC Marine Technology Academy Sdn. Bhd.

First Admirál Davuk Ir. Yahya bin Hashim (Rtd)

First Admiral Dafuk Ir. Yahya bin Hashim (Rtd. / Director BHIC Marine Technology Academy Sdn. Bhd.





# BHIC Marine Technology Academy Sdn. Bhd.

# Certificate of Achievement

This is to certify

FAIRUS BIN SAKIMAN

I/C NO: 780131-10-6009

Has Successfully Completed

## MODULE 3: BHIC FAMILIARIZATION COURSE From 27<sup>th</sup> July 2016 to 28<sup>th</sup> July 2016

Issued By

BHIC Marine Technology Academy Sdn. Bhd. Boustead Naval Shipyard. Perak Darul Ridzuan Malaysia

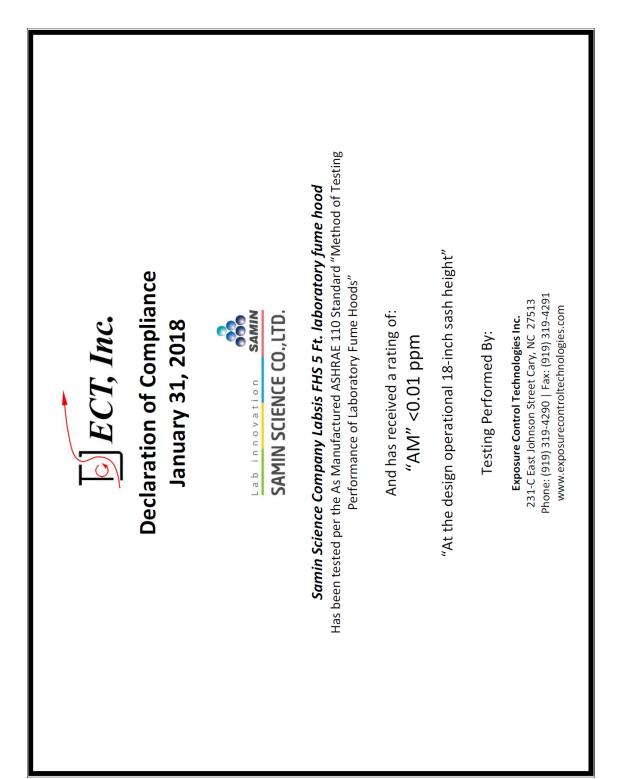
Cdr Ebby Reezal Looi bin Abdullah (Rtd) Chief Operating Officer BHIC Marine Technology Academy Sdn. Bhd.

First Admiral Datuk Ir. Yahya bin Hashim (Rtd) Unrector BHIC Marine Technology Academy Sdn. Bhd.

Furniture Industry Technology Center Pusat Sumber Teknologi Perabot MARA 20050-07 BMTRADA -----Conficate NAVAL SHIPBUILDING ACCOMMODATION 04 ~ 06 (Modul 01 ~ 04), 19 ~ 21 APRIL (Modul 05 ~ 07) & 04 ~ 05 MAY 2016 (Modul 08 ~ 10) NRIC: 780131-10-6009 FAIRUS BIN SAKIMAN This is to certify that has attended a TRAINING held from at

FURNITURE INDUSTRY TECHNOLOGY CENTER, KL.

CHIEF EXECUTIVE OFFICER





No.: AJHL1705002604FT

Date: JUN 12, 2017

Page: 1 of 12

Test Report For:

(SAMIN SCIENCE CO., LTD.)

SEFA 10 - 2013 ADAPTABLE LABORATORY FURNITURE SYSTEMS

Signed for and on behalf of SGS-CSTC Co., Ltd. Anji Branch

m

David Fan Approved Signatory

This report is for the exclusive use of the Client and only the Client is authorized to permit copying or distribution of this report and then only in its entirety.





Test Report No

No.: AJHL1705002604FT

Date: JUN 12, 2017

Page: 2 of 12

Client Contact Information SAMN SCIENCE CO., LTD. 27, EMTIBEUI 4-RO 48BEON-GIL, DANWON-GU, ANSAN-SI, GYEONGGI-DO, KOREA Phone: +82-31-433-8941 Email: <u>co14trick@saminsci.com</u>

DATE RECEIVED: DATES TESTED: MAY 26, 2017 MAY 26, 2017 TO JUN 12, 2017

### DESCRIPTION OF SAMPLES:

SEFA 10 Required Test Units Market Name of Product Laboratory Furniture Model Number: D3 type table Item Number: HD318075



Member of the SIGS Group (SIGE SA)



Test Report No.: AJHL1705002604FT

Date: JUN 12, 2017 Page: 3 of 12

### WORK REQUESTED/APPLICABLE DOCUMENTS:

SEFA 10-2013 Adaptable Laboratory Furniture Systems

Nos. of Specimen : 1pc.

Test Result : Pass. Details shown as following table

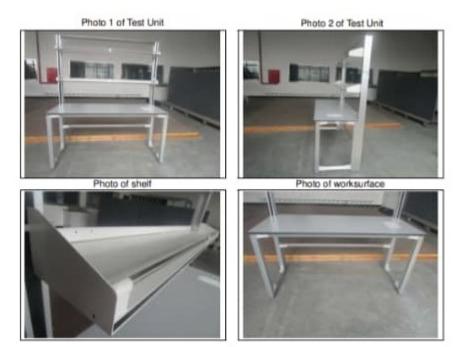
Clause	Test items	Result	Note
6.2	Description of Test Unit		-
6.3	Live Load	***	-
6.4	Strength Test Configuration 1 (Single Sided, Cantilevered)	N/A	# 1
6.5	Stability Test Config.1 (Single Sided, Cantilevered) - Anchored Units	N/A	# 1
6.6	Resistance to Overturning Contig.2 (Single Sided, Cantilevered) - Free Standing Units	N/A	# 1
6.7	Strength Test Configuration 2	N/A	# 1
6.8	Stability Test Config.2 (Double Sided, Cantilevered) - Anchored Units	N/A	# 1
6.9	Resistance to Overturning Configuration 2 (Double Sided, Cantilevered) Free Standing Units	N/A	# 1
6.10	Strength Test Configuration 3 (Single Sided, Supported)	Pass	-
6.11	Stability Test Configuration 3 (Single Sided, Supported) -Anchored Units	N/A	#1
6.12	Resistance to Overturning Config.3 (Single Sided, Supported) Free Standing Units	Pass	1
6.13	Strength Test Configuration 4 (Double Sided, Supported)	N/A	# 1
6.14	Stability Test Configuration 4 (Double Sided, Supported) – Anchored Units	N/A	# 1
6.15	Resistance to Overturning Configuration 4 (Double Sided, Supported) Free Standing Units	N/A	# 1
Notes	: # 1- N/A means not applicable to this product design.		



Henter of the B30 Group (HUE SA)



Test Report No.: AJHL1705002604FT Date: JUN 12, 2017 Page: 4 of 12







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1993 - 1997 - 1993 -

### SGS

Test Report No.: AJHL1705002604FT



Class 7 per section 5.1-5.8

Configuration 3 Single Sided – Simply Supported Worksurface Load Category 2 per 6.3.2

### Shelving:

Shelf is: Continuous Split Shelf Material: Aluminum panel Shelf size: 5.68 ft × 0.89 ft = 5.1 sq.ft. × 40 lb = 200 lb (each Shelf live load)

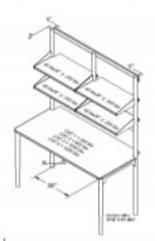
Continuous Shelves × 2 = 400 lbs (Total shelf load)

### Work surface:

	Work Su	rface Load Ca	tegory	
CAT 1	CAT 2	CAT 3	CAT 4	Other
200 lb	600 lb	1000 lb	1200 lb	1

Work surface load: 600 lb + Total shelf load: 400 lb Fully loaded maximum: 1000 lb







**Test Report** No.: AJHL1705002604FT Date: JUN 12, 2017

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6.10 Strength Test Configuration 3 (Single Sided, Supported) Date Tested: Jun 02, 2017

6.10.1 Test Procedure: Test Method:

Measure the worksurface to find the center point (approximately at 36') and mark it for reference. Establish a zero vertical defl ection point. From this point will be determined X coordinate movement.

Establish a zero deflection point at the upper most height and on each end of the assembly. From this point will be determined Y and Z coordinate movement.

Load the shelves with ten-pound sand or shot bags until each shelf is loaded with 40 lbs per sq ft not to exceed 200 pounds.

Record deflection at X, Y', Y' and Z.

Results:

Deflec	tion, inch	Ret	ults
X	0	B Pass	E Fail
Yavg	0	國 Pass	E Fail
Z	0	Pass Pass	E Fail

Refer to the following for photograph.

Strength Test



10.700.012000 1.80-02.3282 / 08-02.52820 www.apapros.com #18.012000 1.80-02.32822 / 08-02.52825 \* No.404400papros No. 101, Longie Fland, 2004, Surgermann, Lon, A.J. Curre, Doger 中国・安江・日日男形:R.工业第二正第101-9

Member of the \$555 Simus (\$555 SA)



Test Report

No.: AJHL1705002604FT

Date: JUN 12, 2017

Page: 8 of 12





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Test Report No.: AJHL1705002604FT

Date: JUN 12, 2017

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6.10.3 Test Procedure Continued: Test Method:

With shelves fully loaded add the worksurface live load using fifty pound steel bars to the specified load category for worksurfaces. Record deflection at X, Y<sup>1</sup>, Y<sup>2</sup> and Z.

6.10.4 Acceptance Criteria:

Allowable maximum deflection: X = 0.250 inches Yavg  $(Y^1 + Y^2)/2 = 0.125$  inches Z = 0.125 inches

Results;

Dette	ction, inch	Res	ults .
x	0.236	Pass	E Fail
Yava	0.039	E Pass	🔲 Fail
Z	0	Pass	E Fail

Refer to the following for photograph.

Strength Test







Test Report

No.: AJHL1705002604FT

Date: JUN 12, 2017 Page: 10 of 12

6.12 Resistance to Overturning Config.3 (Single Sided, Supported) Free Standing Units Date Tested: Jun 02, 2017

6.12.1 Test Procedure Free Standing Units: Test Method: Block the unit at front or rear bottom edge to prevent lateral movement. Tilt the unit 10 degrees from horizontal in the direction most likely to overturn.

### 6.12.2 Acceptance Criteria:

A pass is when the unit does not initiate overturn when tilted 10 degrees from horizontal in the cirection most likely to cause overturn and when no parts become disengaged from unit.

### Results:

Pass. The unit does not overturn when tilted 10 degrees from horizontal in the direction most likely to cause overturn. Refer to the following for photograph.



\*\*\*End of Report\*\*\*



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n. Charletinne ( 18-07) 12.00. / 68-07) 52.001 www.spyrost.com/r #680 21.000 ( 18-07) 12.002 / 68-07 52.005 + nat.rendpip.com 16.03.Leigt Fail 2016.Leigt roads 201.6(Curp.2016 918-1912-12.0.8(RA2.487-2018-0.4(Curp.2016 Herear of the ISSS Group (HSII SA)



Test Report No.: AJHL1705002604FT

Date: JUN 12, 2017

Page: 11 of 12

### CERTIFICATE OF SEFA COMPLIANCE

<u>SGS -CSTC Co., Ltd. Anii Branch</u> certifies that it has performed testing as specified in **SEFA 10-2013 Adaptable Laboratory Furniture System** on the laboratory grade furniture produced by Samin Science Co., Ltd on Jun 12, 2017 obtaining the results below. Full documentation of the test results is available upon request in a bound report that includes a detailed description of the test unit and procedures, witnesses results and appropriate drawings or photographs of the test unit and procedures.

SEFA 10-2013 Adaptable Laboratory Furniture Systems

Nos. of Specimen : 1pc.

Test Result : Pass. Details shown as following table

Clause	Test items	Result	Note
6.2	Description of Test Unit		-
6.3	Live Load		-
6.4	Strength Test Configuration 1 (Single Sided, Cantilevered)	N/A	# 1
6.5	Stability Test Config.1 (Single Sided, Cantilevered) - Anchored Units	N/A	# 1
6.6	Resistance to Overturning Config.2 (Single Sided, Cantilevered) - Free Standing Units	N/A	#1
6.7	Strength Test Configuration 2	N/A	# 1
6.8	Stability Test Config.2 (Double Sided, Cantilevered) - Anchored Units	N/A	# 1
6.9	Resistance to Overturning Configuration 2 (Double Sided, Cantilevered) Free Standing Units	N/A	# 1
6.10	Strength Test Configuration 3 (Single Sided, Supported)	Pass	
6.11	Stability Test Configuration 3 (Single Sided, Supported) -Anchored Units	N/A	# 1
6.12	Resistance to Overturning Config.3 (Single Sided, Supported) Free Standing Units	Pass	-
6.13	Strength Test Configuration 4 (Double Sided, Supported)	N/A	#1
6.14	Stability Test Configuration 4 (Double Sided, Supported) – Anchored Units	N/A	# 1
6.15	Resistance to Overturning Configuration 4 (Double Sided, Supported) Free Standing Units	N/A	#1
Notes	# 1- N/A means not applicable to this product design.		



N. H. Ladgethal, 2016, Antopennion, Jans, Ardiang, Japang Printer, 2016, 2012年、1月1日日、1月1



Test Report No.: AJHL1705002604FT Date: JUN 12, 2017 Page: 12 of 12

Member Information			
Contact Name:	Mr. Seung Hoon Lee		
Member Name:	Samin Science Co., Ltd		
Address 1:	27, Emtibeui 4-ro 48beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Korea		
Address 2:	1		
City, State(Region) Postal Code:	Ansan-si, Gyeonggi-do 15658		
Country:	Korea, Republic of.		
Phone:	+82-31-433-8941		
Email:	go14trick@saminsci.com		

Test Lab Information	
Contact Name:	David Fan
Contact Title:	Lab supervisor
Test Lab Name	SGS HL Lab
City, State(Region) Postal Code Country:	Zhejiang, Anji 313300
Signature:	- nort

Test Performed by:	SGS HL Lab
Name of Tester:	Jack Xu
Signature of Tester:	Josep





### **CERTIFICATE OF APPROVAL**

This is to certify that the Quality Management System of:

### GBC Scientific Equipment Pty Ltd 2-4 Lakewood Boulevard Braeside, Victoria Australia

has been approved by Lloyd's Register Quality Assurance Limited to the following Quality Management System Standard:

### ISO 9001:2015

The Quality Management System is applicable to:

The design, manufacture, servicing and export of atomicabsorption, UV-visible, optical-emission and time-of-flight spectrometers, high-performance liquid chromographs, micro-Fourier rheometers and x-ray diffraction instruments.

Approval Certificate No: MEL929681 Original Approval:19 October 1993Current Certificate:01 August 2017Certificate Expiry:31 July 2020

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Issued by: Lloyd's Register Quality Assurance Limited



Level 16, 461 Bourke Street, Melbourne, Vic, 3000 This approval is carried out in accordance with the IRQA assessment and certification procedures and monitored by LRQA. To confirm the validity of the acceduation for this certificate please visit <u>www.iss-ans.org/register</u>

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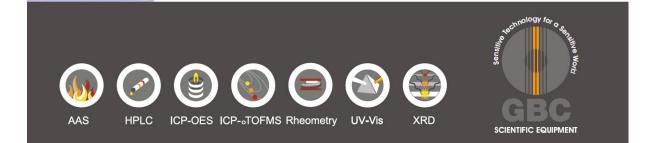
### Solutions for the European Union (EU) RoHS/WEEE Directive

GBC Scientific can help you with compliance with the European Union (EU) directives on the Restriction of the use of hazardous Substances (RoHS) and on Waste Electrical and Electronic Equipment (WEEE) (Directives 2002/95/EC and 2002/96/EC, respectively).

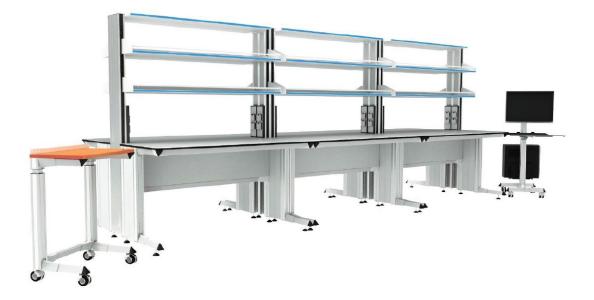
Effective July 2006, the new directives severely restrict the use of cadimum (Cd), lead (pb), mercury (Hg), and hexavalent chromium. that are used in many electrical and electronic products. Additionally, these directives apply to the disposal of these controlled products when no longer in use. These directives follow other regulations aimed at environmental protection issues, such as EU Directive 76/769/EEC that lists 47 dangerous materials and substance classifications.

The RoHS directive applies to electronic and electrical equipment manufacturers their supply chain, and consumers. The requirements are stringent, calling for companies that manufacture, distribute, and/or sell regulated equipment into the EU to determine if restricted substances are present and, if so whether the levels are within acceptable concentration limits. Adding to the challenge is the lack of uniform global standards and methods to analyze these substances. Toward that end, the American Society for Testing and Materials (ASTM) has formed a committee (F-40) to create standardized test methods for these restricted substances.

GBC Scientific Equipment can help you to address these issues. We can assist you with chromatography and spectroscopy products for the analysis of Cd, Pb, Hg and hexavalent chromium.



	ICP-MS	ICP-OES	Flame AA	Furnace AA
Elements Isotype Analysis Detection Limits Sample Throughput Linear Dynamic Range Precision	116 yes all ppt All masses 45 sec/sample 10 <sup>7</sup> 0.5 - 2%	75 no ppb 30 elements <4 min/sample 10 <sup>6</sup> 0.3 - 2%	68 no ppb/ppm 1 element 9 sec/sample 10 <sup>3</sup> 0.1 - 1%	50 no ppb 1 element 2 - 3 min/sample 10 <sup>2</sup> 1 - 5%
Interferences Spectral Matrix ionization Mass Effects Isotope	few moderate minimal some yes	common almost none some NA none	almost none moderate some NA none	few many minimal N/A none
Methodology Dissolved Salts Sample Consumption Semi-Quant Retrosp Semi Quant Fingerprinting Method Development Data Interpretation Routine Operation Unattended Operation Operating Costs Combustible Gases	<10% low yes yes woderate moderate moderate yes medium/high no	<40% moderate/high yes no no moderate moderate easy yes medium no	<20% high no no easy easy easy no low yes	>20% very low no no difficult easy easy yes medium no
AAS HPLC	ICP-OES ICP-JTOFM			CIENTIFIC EQUIPMENT



### MAKE YOUR LAB INNOVATIVE

