



Jana Tanmia Resources

FACILITY & ENERGY ENGINEERING

COMPANY PROFILE



AWARD WINNING COMPANY :
FAST MOVING COMPANIES AWARD
ASIA PACIFIC ENTREPRENEURSHIP AWARD



DESCRIPTION

1. **CORPORATE OVERVIEW**
2. **COMPANY VISION & MISSION**
3. **VALUES**
4. **QUALITY STATEMENT**
5. **COMPANY ACHIEVEMENT & AWARDS**
6. **ENDORSEMENT & APPRECIATION LETTER**
7. **CORPORATE DATA**
8. **REGISTRATION**
 - i) **REGISTRATION WITH AUTHORITIES**
 - ii) **REGISTRATION WITH CLIENTS**
 - iii) **CORPORATE MEMBERSHIP**
9. **COMPANY ORGANIZATION CHART**
10. **MANAGEMENT TEAM CURRICULUM VITAE**
11. **KEY PERSONNEL**
12. **SPECIALISATIONS & PROJECT REFERENCES**
13. **PROJECT SHOWCASE**
14. **COMPANY PRODUCTS**
15. **OTHER PROJECT REFERENCES**
16. **CENTRAL WAREHOUSE, MACHINERIES & TOOLS**
17. **TESTING EQUIPMENTS**
18. **COMPANY VEHICLES**
19. **SUPPLIERS & CREDITORS**
20. **REFERENCES**
 - i) **INTERNATIONAL**
 - ii) **OTHER LOCAL OTHER**
21. **FINANCIAL STATUS**



1.0

CORPORATE OVERVIEW



1.0 CORPORATE OVERVIEW

The company has established a diverse portfolio encompasses ranges of portfolio in the area of Asset, Facilities and Energy Management since its establishment in 8th April 1996.



choice for

ENGINEERING

System Design

PROJECT MANAGEMENT

System Installation & Construction

ASSET & FACILITY MANAGEMENT

Maintenance

For every job, we bring an unmatched combination of knowledge, skill, experience and customer commitment. We are employing hundreds of technical staff around the country and have helped in improving local employment at all sites that we have presence. We conduct a continuous on job training at all levels and project quality management system to ensure consistent high quality project deliverables. Knowledge is the basis of our success.

WHAT WE DO ?

SPECIALISATIONS

**SUSTAINABLE FACILITY
MANAGEMENT**



**ENERGY EFFICIENT
HVAC/ACMV SYSTEM**



**ENERGY MANAGEMENT -
ENERGY EFFICIENT SYSTEM**



**BUILDING, IAQ HUMIDITY &
MOLD CONTROL**



**CLEANROOM - OPERATION THEATER,
BIOSAFETY LAB, GMP LAB & CLEANROOM**



MEDICAL GAS PIPELINE SYSTEM



**BUILDING MANAGEMENT/
AUTOMATION SYSTEM**



HOT WATER & STEAM SYSTEM



DESIGN, BUILD AND MAINTENANCE OF MECHANICAL & ELECTRICAL SYSTEM

MECHANICAL SERVICES

Air Conditioning & Ventilation System	Refrigeration System
Cold Water System	Clean Room / Critical Environment
Medical / Industrial Gas System	Hot Water, Steam
Fire Protection System	Industrial Compress Air system

ELECTRICAL SERVICES

Street Lighting System	Lightning Protection System
Traffic Control System	Extra Low Voltage System (ELV)
Genset System	Building Automation System
Building Electrical (High voltage / Low Voltage)	Uninterrupted Power Supply System
Substation System	Isolated Power Supply System

ASSET , FACILITY MAINTENANCE & MANAGEMENT SERVICES

Undertake total comprehensive or non-comprehensive asset and facilities management & maintenance services.

BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

2.0

COMPANY
VISION & MISSION



2.0 COMPANY VISION & MISSION

OUR VISION

To be the industries leader in the area of facility energy & engineering.

OUR MISSION

- ✓ Customers and partners will see us as integral to their success. We will anticipate their needs and deliver every commitment we make.
- ✓ People will be proud to work at Jana Tanmia Resources Sdn Bhd. We will create opportunities to achieve and will reward success.
- ✓ Advance knowledge and latest technologies are our main components of our organization. We will integrate it in all our projects as part of our deliverables to our customers.

3.0

COMPANY
VALUES



3.0 COMPANY VALUES

Building on family legacy in the area of engineering and construction that spans more than 50 years, we will continue to be guided by innovative management and firm held values.

EXCELLENCE

We set high standard, we used advanced technology and we continually learn, innovate and improve. We thrive on challenge and accomplishment and we adhere to Jana Tanmia Resources Work Habits at all time.

MUTUAL RESPECT

We encourage openness, teamwork and trust. We value an inclusive culture based on diverse backgrounds, experience and views.

ETHICS

Uncompromising integrity, honesty, respect and fairness are at the heart of our company. We stand by on everything that we do.

SAFETY

Zero accidents - people's life depends on it. Preventive measures are always prioritised.

SUSTAINABILITY

We plan and build for the future of our environment, customers and company.

FAIR RETURN

We earn a return that fairly reward the value we deliver.

4.0

QUALITY
STATEMENT



4.0 QUALITY STATEMENT

At **Jana Tanmia Resources Sdn Bhd**, quality means doing every job right at the first time. This would mean to deliver to the required specification within the time frame as planned. We will always deliver quality work and continually striving to improve our performance through ISO9001 : 2015, 5S, Standard Operating System (SOP's) and other initiatives to ensure commitment of the organization to continually improve the effectiveness of the quality management system.



CERTIFIED TO ISO 9001:2008
CERT. NO. : AR 5822



CERTIFIED TO ISO 9001:2008
CERT. NO. : AR 5822



CERTIFIED TO ISO 9001:2008
CERT. NO. : AR 5822




Dato' Ts. Haji Mohd Zaidi Bin Ilandin DIMP, KMN,
REEM, MIPM, GBM, CEM, CEA, CPMV, CAAM
BSc.(Hons) Nuclear Science, UKM

Managing Director Jana Tanmia Resources Sdn Bhd

JTR SAFETY & HEALTH POLICY

Jana Tanmia Resources Sdn Bhd is committed to provide a safe and healthy environment for all our staff at headquarters and sites and recognizes its obligation under the Occupational Safety and Health Act 1994. Our company also committed to stimulate learning and achieve the highest standards of occupational safety and health in accordance with best practices.

Jtr Safety & Health Policy :

1. To establish and maintain a safe environment for staff either in headquarter or sites.
2. To identify and eliminate hazards in order to prevent accidents.
3. To promote safety consciousness and responsibility.
4. To involve staff and general workers in safety planning and implementation

Our company expects staff to comply with its occupational safety and health policies procedures and guidelines, and to conduct themselves in a safe manner, not placing themselves or others at risk. Management staff are responsible for the safety and health of staff working under their direction.

JTR also committed to provide a safe and healthy environment for our visitors who come into company premises or sites. Subcontractors that working under JTR also required to conduct their activities in a manner that ensures the safety, health and welfare of other.



Dato' Ts. Haji Mohd Zaidi Bin Ilamdin DIMP, KMN,
REEM, MIPM, GB, CEM, CEA, CPMV, CAAM
BSc.(Hons) Nuclear Science, UKM

Managing Director Jana Tanmia Resources Sdn Bhd





JANA TANMIA RESOURCES SDN BHD

(382767-D)

Environmental Policy

JANA TANMIA RESOURCES SDN BHD shall work the environment factor in contributing to a positive environmental development in our industry and as well as internationally compliance. With the commitment and supports from staff, subcontractor, vendors, suppliers, and clients we will increase our environmental quality and reduce the negative Impact by :

- Continuously care and comply towards an improved environmental performance
- Reduce waste of natural and artificial resources by reducing the amount of scrap item in relation to control the purchase volume.
- Alert and consideration in investing the chemical or product which related to environmental.
- Follow and adhere to applicable environmental best practices, standards, laws, and regulations.




Dato' Ts. Haji Mohd Zaidi Bin Ilamdin DIMP, KMN,
REEM, MIPM, GB, CEM, CEA, CPMV, CAAM
BSc. (Hons*) Nuclear Science, UKM

Managing Director Jana Tanmia Resources Sdn Bhd



AWARD WINNING COMPANY :
FAST MOVING COMPANIES AWARD 2014
ASIA PACIFIC ENTREPRENEURSHIP AWARD 2017



5.0

COMPANY
ACHIEVEMENTS &
AWARDS



5.1 ISO 9001 - QUALITY MANAGEMENT SYSTEM



5.2 TERAJU - PROGRAM SYARIKAT BUMIPUTERA BERPRESTASI TINGGI (TERAS)



JABATAN PERDANA MENTERI

Ruj. Kami: Teras 2013/Lulus/TSC 2013 (385)

2 September 2013

JANA TANMIA SDN. BHD.
No. 11, Jalan Kota Raja H27/H
Hicom Town Centre
40400 Shah Alam
Selangor.
(u/p: EN. MOHD ZAIDI ILAMIDIN)

Tuan,

TAWARAN MENYERTAI PROGRAM SYARIKAT BUMIPUTERA BERPRESTASI TINGGI (TERAS)

Dengan segala hormatnya perkara di atas adalah dirujuk.

2. Sukacita dimaklumkan bahawa Jawatankuasa Pelaksanaan Teraju (TDC) yang dipengerusikan oleh YB Senator Dato' Sri Abdul Wahid Omar yang bersidang pada 15 Ogos 2013 telah **MELULUSKAN** permohonan syarikat **JANA TANMIA SDN. BHD.** untuk menyertai TERAS.

3. Sebagaimana Tuan sedia maklum, objektif utama TERAS adalah untuk mengenalpasti 1,100 syarikat Bumiputera yang berpotensi tinggi dan membantu syarikat untuk mencapai peningkatan perniagaan bukan sahaja di Malaysia malah ke peringkat serantau dan global. Selain itu, sesetengah syarikat yang besar dalam TERAS dari masa ke semasa akan turut memainkan peranan sebagai syarikat induk dalam menyokong pertumbuhan perniagaan beberapa syarikat TERAS yang lain. TERAS mensasarkan syarikat Bumiputera berpotensi tinggi untuk berkembang maju dalam jangka masa lima tahun akan datang dan memberikan sumbangan ketara kepada Keluaran Dalam Negara Kasar (KDNG) menjelang tahun 2020.

4. Untuk makluman Tuan, setiap syarikat Bumiputera hanya dibenarkan menyertai TERAS selama lima tahun. Dalam jangkamasa tersebut, syarikat **DIWAJIBKAN** memenuhi kriteria seperti yang disenaraikan di bawah di mana sebarang keingkaran akan menyebabkan syarikat terkeluar dari program ini.



TERAJU
PENERAJU BUMIPUTERA

(i) Jumlah pegangan ekuiti Bumiputera adalah melebihi 60% ke atas;

(ii) Mendapat sekurang-kurangnya penarafan 3 bintang bagi SCORE daripada SME Corp. / agensi yang diiktiraf oleh Kerajaan Malaysia;

(iii) Bukan anak syarikat kepada GLC / MNC (syarikat bersekutu dibenarkan);

(iv) Ketua Pegawai Eksekutif / Pengarah Urusan adalah Bumiputera;

(v) Majoriti pihak pengurusan tertinggi adalah Bumiputera;

(vi) Merekodkan prestasi kewangan yang baik;

(vii) Credit Bureau Rating yang tidak melebihi 20%; dan

(viii) Melempi semakan *Legal Due Diligence* yang dilaksanakan oleh penasihat undang-undang TERAJU.

5. Sebagai syarikat TERAS, pihak syarikat juga **DIWAJIBKAN** mengemukakan dokumen-dokumen seperti yang dinyatakan di bawah bagi setiap tahun untuk tempoh lima tahun berturut-turut bermula pada 15 Ogos 2014.

(i) Rekod kewangan beraudit terkini;

(ii) Sijil penarafan SCORE terkini; dan

(iii) Salinan Maklumat Korporat yang dikeluarkan oleh Suruhanjaya Syarikat Malaysia (SSM) terkini.

6. Syarikat yang bersetuju untuk menyertai TERAS akan mempunyai akses kepada pemudahcara yang diwujudkan oleh TERAJU. Oleh yang sedemikian, syarikat TERAS yang diluluskan pembiayaan oleh rakan strategik TERAJU perlu bekerjasama dan 'tidak mempunyai sebarang halangan' sekiranya pihak TERAJU atau wakil yang dilantik ingin:

(i) Mengadakan lawatan dan membuat pemeriksaan berkala di pejabat operasi syarikat TERAS / tapak projek;



JABATAN PERDANA MENTERI

(ii) Membuat pemeriksaan untuk rekod yang berkaitan dan data-data lain yang difikirkan relevan berkenaan dengan operasi / projek syarikat TERAS; dan

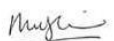
(iii) Memohon maklumat tambahan yang berkaitan dengan operasi / projek syarikat TERAS.

7. Untuk makluman Tuan juga, seorang pegawai TERAJU iaitu Pn. Norfaazah binti Basir (faaz@teraju.gov.my) telah dilantik sebagai Ketua Sektor Perkhidmatan Kejuruteraan yang berperanan memantau prestasi dan memberi sokongan kepada syarikat dalam sektor berkenaan di mana pihak syarikat digalakkan menghubungi beliau untuk perbincangan lanjut.

8. Sehubungan itu, pihak Tuan diminta untuk mengembalikan surat setuju terima pelantikan syarikat menyertai TERAS di atas kepala surat syarikat sebelum atau pada 9 September 2013. Adalah menjadi harapan TERAJU agar setiap syarikat TERAS akan terus memberikan komitmen yang sepenuhnya demi pembangunan ekonomi bangsa dan negara.

"BERKHIDMAT UNTUK NEGARA"

Yang Benar,
UNIT PENERAJU AGENDA BUMIPUTERA


ABDUL MUSHIR CHE CHIK
Pengarah Kanan,
Bahagian Keusahawanan

2

3

Unit Peneraju Agenda Bumiputera, Tingkat 5, Menara Surian, No. 1, Jalan PJU 7/3, Mutiara Damansara, 47810 Selangor Darul Ehsan.
T +603 7839 8000 F +603 7839 8100 W www.teraju.gov.my

5.3 CIDB SCORE - 3 STAR



5.4 SME 100 AWARDS - FAST MOVING COMPANIES



5.5 ASIA PACIFIC ENTREPRENEURSHIP AWARD (APEA) 2017



5.6 SIJIL KOMPETENSI KONTRAKTOR KESIHATAN (SKKK) 2023



5. 8 ISO 9001 - QUALITY MANAGEMENT SYSTEM



6.0

**ENDORSEMENT
& APPRECIATION
LETTER**



6.1 JABATAN TENAGA KERJA (JTK)



JABATAN TENAGA MANUSIA
Manpower Department
KEMENTERIAN SUMBER MANUSIA MALAYSIA
Ministry of Human Resources Malaysia
ARAS 6, BLOK D4, KOMPLEKS D
Level 6, Block D4, Complex D
PUSAT Pentadbiran Kerajaan Persekutuan
Federal Government Administration Centre
62530 W.P. PUTRAJAYA
62530 Putrajaya



Telefon/Telephone: 603-88665555
Faks/Fax: (PKSM/HRSD) 603-8862417/13
(PT/Admin) 603-8882412
Web/Homepage: http://www.jtm.gov.my
E-mail/E-mail: jtm@moh.gov.my

Rujukan: JTM/HQ/700-1 ()

Tarikh: 16 Januari, 2014

Kepada,

YBhg. Datuk/Dato'/Datin/Tuan/Puan,

UCAPAN PENGHARGAAN ATAS KERJASAMA DENGAN PIHAK JTM

Saya dengan hormatnya merujuk kepada perkara di atas.

2. Sempena dengan kehadiran tahun baru 2014, Jabatan Tenaga Manusia, Kementerian Sumber Manusia ingin mengambil kesempatan ini untuk merakamkan setinggi-tinggi penghargaan dan ucapan terima kasih kepada pihak YBhg. Datuk/Dato'/Datin/Tuan/Puan di atas kerjasama dan komitmen yang telah diberikan kepada Jabatan kami sepanjang tahun 2013.

3. Sesungguhnya sokongan, kerjasama dan komitmen pihak YBhg. Datuk/Dato'/Datin/Tuan/Puan adalah sangat bermakna sekali dalam membantu kejayaan Jabatan Tenaga Manusia. Saya berharap kerjasama yang erat seumpama ini dapat diteruskan di tahun-tahun akan datang.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

'Pekerja Pemangkin Transformasi Negara'

(DATUK HAJI ROMLI BIN HAJI HASSAN)
Ketua Pengarah
Jabatan Tenaga Manusia.



6.2 NXP SEMICONDUCTORS MALAYSIA



Mohd Zaidi bin Hamdin

Managing Director

Jana Tannia Resources Sdn Bhd
No. 11, Jalan Kota Raja H27/H,
Hicom, Town Centre, Seksyen 27,
40400, Shah Alam,
Selangor

24th June 2015

Sir,

SUBJECT: LETTER OF ENDORSEMENT & APPRECIATION FOR THE COOPERATION AND COMPLETION OF THE DESIGN AND BUILD OF CLASS 100K PHASE 1-B & PREPACK: AIR CONDITIONING & VENTILATION SERVICES – NXP SEMICONDUCTORS MALAYSIA SDN.BHD.

We kindly refer to above subject.

In conjunction with the successful completion of the project in 2014, NXP Semiconductor Malaysia Sdn Bhd a wholly owned subsidiary of NXP Netherland, the world biggest semiconductor company in the world, would like to express appreciation and gratitude to Jana Tannia Resources Sdn Bhd for the cooperation and commitment given to complete the project on time and its capability to design, build, test and commission the project to the design requirements which is the temperature, humidity, air balancing and cleanliness level of the production area at Phase 1B and Prepack.

Your kind support, cooperation and commitment towards this project is highly appreciated.

We do look forward for future cooperation in many more highly technical future projects.

Thank you and kind regards,

SENIOR MANAGER
FACILITIES & EHS DEPARTMENT
NXP SEMICONDUCTORS MALAYSIA SDN.BHD

6.3 PROTON



Clients Details		
Company Name	PROTON CASTING PLANT	
Address	1, JALAN SURUTERA, U1/24, HICOM GUMMARIE INDUSTRIAL PARK 40150, SHAH ALAM, SELANGOR	
Contact Person	MOHD ZULHILMI BIN AHMAD	
Telephone/Fax /Hp	013-3008602	
Email	zulhilh@proton.com	
Details of Services Provided		
Contract Period		
Scope		
OVERALL PERFORMANCE		
Overall Rating	Tick (/)	Conditions
Good	✓	Preferred and Generally Acceptable Contractor
Satisfactory		Conditionally Acceptable Contractor
Poor		Not Recommended Contractor
RECOMMENDED FOR CONTRACT APPOINTMENT : ☒ YES ☐ NO (please circle)		
RECOMMENDED FOR OTHER PROPERTIES : ☒ YES ☐ NO (please circle)		
Further comments on areas of concern/areas of strengths/also of non-conformity:		
Appreciate if can share with us the energy saving for air condition		
Since now we are going to green technology		
Assessment Completed by:		
 Name : MOHD ZULHILMI AHMAD Date : 15/02/2015		 Company Chop:

6.4 POS MALAYSIA



Clients Details		
Company Name	Assets & Facilities Management	
Address	Pos Malaysia Berhad 5th Floor, Pos Malaysia Headquarters Dayabumi Complex 50670 Kuala Lumpur	
Contact Person		
Telephone/Fax /Hp	03-22672267	
Email		
Details of Services Provided		
Contract Period	13/7/2013 — 12/7/2016	
Scope	IFMS	
OVERALL PERFORMANCE		
Overall Rating	Tick (/)	Conditions
Good	✓	Preferred and Generally Acceptable Contractor
Satisfactory		Conditionally Acceptable Contractor
Poor		Not Recommended Contractor
RECOMMENDED FOR CONTRACT APPOINTMENT : ☒ YES ☐ NO (please circle)		
RECOMMENDED FOR OTHER PROPERTIES : ☒ YES ☐ NO (please circle)		
Further comments on areas of concern/areas of strengths/also of non-conformity:		
Good contractor		
Assessment Completed by:		
 Name : HISHAM ZUHDI BIN MAHMUD ZAHUDI Date : 24/2/16		 Company Chop:

6.5 EDGENTA MEDISERVE



Jana Tanmia Resources
FACILITY & ENERGY ENGINEERING

Clients Details		
Company Name		
Address		
Contact Person		
Telephone/Fax /Hp		
Email		
Details of Services Provided		
Contract Period :		
Scope :		
OVERALL PERFORMANCE		
Overall Rating	Tick (✓)	Conditions
Good	✓	Preferred and Generally Acceptable Contractor
Satisfactory		Conditionally Acceptable Contractor
Poor		Not Recommended Contractor
RECOMMENDED FOR CONTRACT APPOINTMENT : <u>YES/NO</u> (please circle)		
RECOMMENDED FOR OTHER PROPERTIES : <u>YES/NO</u> (please circle)		
Further comments on areas of concern/areas of strengths/also of non-conformity: <u>- None -</u>		
Assessment Completed by:		
 AHMAD ZAMRI SAID Chief Operating Officer		EDGENTA MEDISERVE SDN BHD (109018-H) FORMERLY KNOWN AS FABER MEDISERVE SDN BHD Level 17, Menara UEM, Tower 1, Avenue 7, The Horizon, Bangsar South City, No. 8, Jalan Kerinchi, 59200 Kuala Lumpur. Tel: 03-2725 8688 Fax: 03-2725 7263
		Company Chop:

6.6 PERKHIDMATAN SOKONGAN KLINIK SERDANG KKM (PAHANG)



Jana Tanmia Resources
FACILITY & ENERGY ENGINEERING

SULIT

BORANG GA - LAPORAN JURUTERA PROJEK ATAS PRESTASI KERJA SEMASA PETENDER

(Borang ini hendaklah dilengkapkan oleh Jurutera Projek atau Pembantu Kanannya yang mengawasi apabila diminta berbuat demikian oleh Pegawai Penilaian dan hendaklah dihantar segera dengan menggunakan mesin faksimili).

Kepada : Pengarah Kanan
Cawangan Kontrak Dan Ukur Bahan,
Ibu Pejabat JKR Malaysia,
Tingkat 14 – 19, Menara Tun Ismail Muhamad Ali,
No. 25, Jalan Raja Laut, 50582 Kuala Lumpur.
(u.p. : Juruukur Bahan Penguasa Kanan – Bahagian Pendidikan 1)

Nama Kontraktor : JANA TANMIA RESOURCES SDN BHD
 Nama Projek Yang Di Laksanakan : PERKHIDMATAN SOKONGAN KLINIK (PSK) BAGI KLINIK KESIHATAN DI BAWAH KEMENTERIAN KESIHATAN DI NEGERI PAHANG
 No. Kontrak : KKM-153/2022/K/PAHANG (PSK)
 Harga Kontrak (termasuk anggaran nilai kerja perubahan) : RM 52,239,715.82
 Wang Kos Prima dan Peruntukan Sementara : RM -
 Nilai Kerja Pembina : RM -
 Tarikh Milik Tapak : 1 OKT 2022 Tempoh Kontrak : 260 minggu
 Tarikh Penyilapan Asai : 30 SEPT 2022
 Lanjutan Masa Yang Telah Diluluskan : - hari
 Lanjutan Masa Seterusnya : -
 Yang di fikir / di jangka layak diperakukan : - hari
 Atas Sebab-sebab : (i) -
 (ii) -

Kemajuan Kerja (berdasarkan penilaian kerja yang telah dilaksanakan) :
 Pencapaian sebenar : 20 % Mengikut Jadual : 20 %
 Tarikh Kerja dijangka akan dapat disiapkan : 10,446,755.16
 Nilai Bahagian Kerja Yang Telah Siap : RM 41,117,020.18
 Nilai Baki Kerja Yang Belum Siap : RM -
 Ulasan-ulasan mengenai Prestasi Kontraktor :
KONTRAKTOR MENUNJUKKAN PRESTASI YANG BAIK
 (Nyatakan apa-apa kepujian dan / atau kelemahan Kontraktor dan juga apa-apa tindakan / perakuan yang diambil / dipertimbang berhubung dengan prestasi Kontraktor melaksanakan Kontrak)


 Tandatangan / Penyerahan Projek
 Nama : **SITI NORIHAM BINTI SUHAIMI**
 Jawatan : **JURUTERA AWAM J44**
JABATAN KESIHATAN NEGERI PAHANG

Tarikh :

6.7 WISMA CO-OPBANK PERTAMA



Ref no : CBP/100-06/JTRSB/1-08/2025
Date : 21 August 2025

TO WHOM IT MAY CONCERN

السلام عليكم ورحمة الله وبركاته

LETTER OF ENDORSEMENT: JANA TANMIA RESOURCES SDN BHD

We are pleased to provide this letter of acknowledgment for Jana Tanmia Resources Sdn Bhd (Company No: 383767-D) for their role as the main contractor in the renovation of the 14-storey Wisma Co-opbank Pertama located in Kampung Baru, Kuala Lumpur.

The company was responsible for the full scope of renovation works, including architectural, structural, mechanical, and electrical upgrades. The project was completed under challenging conditions, requiring coordination across multiple levels within a defined timeline.

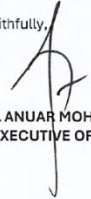
Throughout the project, the team from Jana Tanmia Resources demonstrated:

- Professionalism and sound work ethics
- Good project management and coordination
- Adherence to safety regulations and quality standards
- Completion of key milestones and overall delivery within the agreed timeline and budget

Their commitment to fulfilling the project requirements and their ability to manage technical and logistical matters effectively contributed to the successful completion of the works.

We believe that Jana Tanmia Resources Sdn Bhd has the capability to deliver similar projects and wish them continued success in future undertakings.

Yours faithfully,


KHAIRIL ANUAR MOHAMMAD ANUAR
CHIEF EXECUTIVE OFFICER



7.0

CORPORATE
DATA



7.0 CORPORATE DATA

Company's Name	Jana Tanmia Resources Sdn. Bhd
Registered No.	382767 - D
CIDB Registered No.	Gred G7 0120020603-SL071531
Kem. Kewangan No.	357-01002455 (Bumiputera)
KWSP Registered No.	013139636
ST Registered No.	3319
Date of Establish	08th April 1996
Registered Address	HEAD OFFICE No. 11, Jalan Kota Raja H27/H, Hicom Town Centre Seksyen 27, 40400 Shah Alam, Selangor Darul Ehsan. Tel : +603 5191 4505 Fax : +603 5191 4508 Email : enquiry@jtr.my
Company Secretary	Rohamiza Binti Zainudin (MIA 27213) No. 11, Jalan PU 5/5 Taman Puchong Utama Puchong Selangor 47100 Malaysia
Auditor	Raja Gobal & Company (AF 1509) Chartered Accounts (M) Suite 1, 3rd Floor, Block C, Greentown Square, Jalan Dato Seri Ahmad Said, 30450 Ipoh, Perak.

PAID-UP & AUTHORIZED CAPITAL

Paid-Up Capital	RM 5,000,000.00
Authorized Capital	RM 5,000,000.00

SHAREHOLDERS

NAME	SHARES
Dato' Ts. Haji Mohd Zaidi Bin Ilamdin	75 %
Datin Hajah Sarina Binti Abdul Rashid	25 %

JTR DIRECTORS

DIRECTORS	POSITIONS
Dato' Ts. Haji Mohd Zaidi Bin Ilamdin	Managing Director
Datin Hajah Sarina Binti Abdul Rashid	Executive Director
En. Mohd Nashriq Bin Sulaini	Director

8.0

REGISTRATION

- 8.1 REGISTRATION WITH AUTHORITIES
- 8.2 REGISTRATION WITH CLIENTS
- 8.3 CORPORATE MEMBERSHIP



8.0 COMPANY REGISTRATION & MEMBERSHIP

8.1 REGISTRATION WITH AUTHORITIES

a. COMPANIES COMMISSION OF MALAYSIA

SSM
SURUHANJAYA SYARIKAT MALAYSIA
COMPANIES COMMISSION OF MALAYSIA

BORANG 13
AKTA SYARIKAT 1965 [Seksyen 23(2)]

No. Syarikat
382767 D

PERAKUAN PEMERBADANAN ATAS PERTUKARAN NAMA SYARIKAT

Dengan ini diperakui bahawa

JANA TANMIA (M) SDN. BHD.
yang telah diperbadankan di bawah Akta Syarikat 1965, pada 08 haribulan April 1996, sebagai sebuah syarikat persendirian, pada 09 haribulan Mei 2014 telah memukar namanya kepada

JANA TANMIA RESOURCES SDN. BHD.

dan bahawa syarikat ini adalah sebuah syarikat persendirian dan adalah sebuah syarikat berhad menurut syer.

Diberi di bawah tandatangan dan meterai saya di Shah Alam pada 09 haribulan Mei 2014.

AHMAD TARMIZI HUSSAIN
PENOLONG PENDAFTAR SYARIKAT MALAYSIA

NO. SIRI: SSM 5665908

b. PEJABAT PENDAFTAR SYARIKAT MALAYSIA - BORANG 9

PEJABAT PENDAFTAR SYARIKAT MALAYSIA

BORANG 9
AKTA SYARIKAT, 1965

No. Syarikat
382767 D

Seksyen 16 (4)

PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN

Adalah diperakui bahawa

JANA TANMIA (M) SDN. BHD.
telah diperbadankan di bawah Akta Syarikat, 1965 pada dan mulai dari 08 haribulan April 1996, dan bahawa syarikat ini adalah sebuah syarikat berhad menurut syer dan bahawa syarikat ini adalah sebuah syarikat sendirian.

Dibuat di bawah tandatangan dan meterai saya di Kuala Lumpur. pada 08 haribulan April 1996

ANUAR BIN SHAMAD
PENOLONG PENDAFTAR SYARIKAT MALAYSIA

c. CIDB - PERAKUAN PENDAFTARAN

CIDB MALAYSIA

PERAKUAN PENDAFTARAN

Adalah dengan ini diperakui bahawa kontraktor yang dinyatakan di bawah ini telah berdaftar dengan Lembaga mengikut Bahagian VI Akta Lembaga Pembangunan Industri Pembinaan Malaysia 1994. Pendaftaran ini adalah tertakluk kepada syarat-syarat yang telah ditetapkan bersama perakuan ini.

No. Pendaftaran : 0120020603-SL071531
Nama Kontraktor : JANA TANMIA RESOURCES SDN. BHD.
Alamat Berdaftar : NO.11 JALAN KOTA RAJA H 27/H, SEKSYEN 27 HICOM TOWN CENTRE
40400 SHAH ALAM
SELANGOR

Daerah : PETALING
Tarikh Mula Berdaftar : 03/09/2002

GRUP	KATEGORI	PENGKUALIFIKASIAN
G7	B	B01 B02 B04 B13 B18 B24 B28 B29
G7	CE	CE01 CE02 CE03 CE06 CE34 CE31 CE32 CE34 CE36 CE42 CE63
G7	ME	ED1 ED2 E14 M01 M02 M04 M06 M10 M14 M15 M18 M19 M20 M22

Tarikh Mula Berkuatkuasa : 22/07/2024
Tarikh Habis Tempoh Perakuan : 15/08/2027
STATUS: AKTIF

Ketu Ekokutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 22/07/2024

d. CIDB - SIJIL PEROLEHAN KERJA KERAJAAN

CIDB MALAYSIA

SIJIL PEROLEHAN KERJA KERAJAAN

Adalah disahkan syarikat/Firma ini adalah berdaftar dengan Lembaga Pembangunan Industri Pembinaan Malaysia dan tertakluk kepada syarat-syarat termasuk bersama sijil ini.

No. Pendaftaran : 0120020603-SL071531
Nama Kontraktor : JANA TANMIA RESOURCES SDN. BHD.
Alamat Berdaftar : NO.11 JALAN KOTA RAJA H 27/H, SEKSYEN 27 HICOM TOWN CENTRE
40400 SHAH ALAM
SELANGOR

Daerah : PETALING
Tarikh Mula Berdaftar : 03/09/2002

GRUP	KATEGORI	(Pembinaan Bangunan)
G7	B	
G7	CE	(Pembinaan Kejuruteraan Awam)
G7	ME	(Mekamikal dan Elektrikal)

PEGAWAI SYARIKAT YANG DITALLAHKAN

WAN MUHAMMAD HAFIZI BIN WAN HASSAN
MOHD ZAIDI BIN ILAMIN
SARINA BINTI ABDUL RASHID
MOHD NASHRIQ BIN SULAINI

NO. KP
8807060252103
681125025021
751023055012
8502101150135

Tarikh Mula Berkuatkuasa : 24/07/2024
Tarikh Habis Tempoh Perakuan : 15/08/2027

Ketu Ekokutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 24/07/2024

e. CIDB HEADING

GRED	KATEGORI	PENGKHUSUSAN	DISKRIPSI
G7 - Melebihi 10,000,000	B - Pembinaan Bangunan	B02 B04 B10 B13 B24	Sistem Kerangka Keluli Kerja Am Bangunan Pemasangan Paip Air Dalam Pemasangan Jubin Dan Kerja Lepas Kerja Penyelenggaraan Bangunan
	CE - Pembinaan Bangunan	CE01 CE02 CE03 CE19 CE20 CE21 CE30 CE31 CE34 CE36 CE42 CE43	Pembinaan Jalan dan Pavemen Pembinaan Jambatan Struktur Mesin Sistem Pembentukan Sistem Bekalan Air Kerja-kerja Am Kejuruteraan Awam Kerja Penstabilan Tanah, Penyaliran Bawah Tanah Kerja Kejuruteraan Awam Telekomunikasi Kerja Pemasangan Konkrit Pra-Tuang Kerja Tanah Membuat Isyarat dan Mengecat Jalan Membuat Pengadang dan Lain-lain kerja Untuk Jalan
	ME - Pembinaan Bangunan	M01 M02 M06 M14 M15 M18 M19	Sistem Hawa Dingin Sistem Pencegahan dan Perlindungan Kebakaran Peralatan Perubatan Sistem Kawalan Pencemaran Kelengkapan Mekanikal Pelbagai Sistem Air Panas Pemasangan Kelengkapan Loji

f. MINISTRY OF FINANCE



KEMENTERIAN KEWANGAN MALAYSIA
SUJIL AKUAN PENDAFTARAN SYARIKAT

NO. SIJIL : K28637295753893800
NO. RUJUKAN PENDAFTARAN : 357-01002455
TEMPOH SAH LAKU : 09/07/2024 - 21/09/2027

Bahawa dengan ini diperakui syarikat :
JANA TANMIA RESOURCES SDN. BHD. (382767-D)
NO.11, JALAN KOTA RAJA H27/H
HICOM TOWN CENTRE
SEKSYEN 27
PETALING
40400 PEKAN HICOM
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 :

DATO' MOHD ZAIDI BIN ILAM DIN	691125025021	PENGARAH
DATIN SARINA BINTI ABDUL RASHID	751023055512	PENGARAH
ENCIK MOHD NASHRIQ BIN SULAINI	850210115035	PENGARAH
MOHD AZWAN BIN OTHMAN	880507565413	SENIOR TECHNICAL SUPPORT
CIK ZULAICHA BINTI MOHAMAD SHAFRI	920705086046	EKSEKUTIF

tt

DATO' INDERA AB RAHIM BIN AB RAHMAN
Bahagian Perolehan Kerajaan
b.p. Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 09/07/2024

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

g. MINISTRY OF FINANCE - BUMIPUTERA STATUS



KEMENTERIAN KEWANGAN MALAYSIA
SUJIL AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

NO. SIJIL : BP28637295753893800
NO. RUJUKAN PENDAFTARAN : 357-01002455
TEMPOH SAH LAKU : 09/07/2024 - 21/09/2027

Bahawa dengan ini diperakui syarikat :
JANA TANMIA RESOURCES SDN. BHD. (382767-D)
NO.11, JALAN KOTA RAJA H27/H
HICOM TOWN CENTRE
SEKSYEN 27
PETALING
40400 PEKAN HICOM
SELANGOR, MALAYSIA

Telah diiktiraf sebagai Syarikat Bumiputera oleh Kementerian Kewangan Malaysia, Taraf Bumiputera bukannya hak dan boleh ditarik balik sekiranya syarikat gagal mematuhi syarat/kriteria yang ditetapkan. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Sijil Akuan Pendaftaran Syarikat Bumiputera (Lampiran C).

tt

DATO' INDERA AB RAHIM BIN AB RAHMAN
Perbendaharaan Malaysia Semenanjung
b.p. Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 09/07/2024

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

Lampiran 4

NO KIS : KSMPT0007000000
 NO KURSUS/PENGANTARAN : 001-000000
 TANGGAL LAJAK : 00000000 - 00000000

NO	NOMOR DAFTAR KURSUS	NOB KURSUS	KETERANGAN	STATUS
1	00000001	000001	REKAYASA KIRKORAN LAMA PERBET 01	0001
2	00000002	000002	REKAYASA KIRKORAN LAMA PERBET 02	0001
3	00000003	000003	REKAYASA KIRKORAN LAMA PERBET 03	0001
4	00000004	000004	REKAYASA KIRKORAN LAMA PERBET 04	0001
5	00000005	000005	REKAYASA KIRKORAN LAMA PERBET 05	0001
6	00000006	000006	REKAYASA KIRKORAN LAMA PERBET 06	0001
7	00000007	000007	REKAYASA KIRKORAN LAMA PERBET 07	0001
8	00000008	000008	REKAYASA KIRKORAN LAMA PERBET 08	0001
9	00000009	000009	REKAYASA KIRKORAN LAMA PERBET 09	0001
10	00000010	000010	REKAYASA KIRKORAN LAMA PERBET 10	0001
11	00000011	000011	REKAYASA KIRKORAN LAMA PERBET 11	0001
12	00000012	000012	REKAYASA KIRKORAN LAMA PERBET 12	0001
13	00000013	000013	REKAYASA KIRKORAN LAMA PERBET 13	0001
14	00000014	000014	REKAYASA KIRKORAN LAMA PERBET 14	0001
15	00000015	000015	REKAYASA KIRKORAN LAMA PERBET 15	0001
16	00000016	000016	REKAYASA KIRKORAN LAMA PERBET 16	0001
17	00000017	000017	REKAYASA KIRKORAN LAMA PERBET 17	0001
18	00000018	000018	REKAYASA KIRKORAN LAMA PERBET 18	0001
19	00000019	000019	REKAYASA KIRKORAN LAMA PERBET 19	0001
20	00000020	000020	REKAYASA KIRKORAN LAMA PERBET 20	0001

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[illegible]

 Suruhanjaya Tenaga

SALAH PENERIMA
27.05.10 m. 100
No : 0371

ETELAK030702

BORANG 2
(Spesimen 75)

KIKS DEKALAM ELEKTRIK 1998

**PERAKUAN PENGIAFTARAN SEBAGAI
KONTRAKTOR ELEKTRIK**

Mengikut pendirian 75 Peraturan-Peraturan (Easter) 1998, Peraturan 11, Standard Mylis

JANA TENAGA (M) SDN BHD.

dan membuat buaya kepada penerang yang mengahutir penerangan beraja anak
sebagai Kontraktor Elektrik di

**NO. 11, JALAN KOTA RAJA NETIN
SECTION 27
HICORE TOWN CENTRE
45000 SHAH ALAM
SELANGOR**

memerlukan perakuan ini sebagai

di bawah ini:

sebagai tempoh 2 tahun¹ dan akan disyorkan "bertamabah" yang disyorkan di bawah

Tarikh disyorkan: 19/05/10
Tarikh mada Tempoh: 19/05/10
Penerangan No.: ETELAK030702000
Fi No.: 0000

SALAH PENERIMA
Penerangan No.:
KIKS DEKALAM ELEKTRIK 1998
Suruhanjaya Tenaga

1. Peningkatan yang ada penerangan:
- Untuk mengahutir penerangan yang ada dengan penerangan lain

10/05/2010

Bil. ESCO 74/2014/14301a

Suruhanjaya Tenaga
Energy Commission

PENDAFTARAN
SYARIKAT PERKHIDMATAN TENAGA
(ESCO)

SURUHANJAYA TENAGA dengan ini melakukan permohonan syarikat

JANA TANIMIA RESOURCES SDN BHD
No.11, Jalan Kota Raja H27/H
Hicom Town Centre, Seksyen 27
40600 Shah Alam
Selangor

untuk menjalankan kerja-kerja sebagai syarikat perkhidmatan tenaga berkualifikasi (seperti berikut) :-

Tarikh Kelulusan	4 Mac 2016
Tarikh Tamat Kelulusan	3 Mac 2017

Seperti itu mematuhi segala keperluan dan syarat-syarat rasmi ESCO selangor dimana yang ditetapkan seperti di bawah berikutan.

(DAPIC H. AHMAD FAUZI BIN ISAN)
Pegawai Pengerusi, Enjinering
Suruhanjaya Tenaga

Tarikh: 4 Mac 2016

l. EMPLOYEES PROVIDENT FUNDS (EPF)

AKTA KUMPULAN WANG SIMPANAN PEKERJA 1991
KAEDAH-KAEDAH KUMPULAN WANG SIMPANAN PEKERJA 1991
[SEKSYEN 41(1) DAN KAEDAH 9(2) (b) & 58]

No. Pendaftaran Majikan 013139636

SIJIL PENDAFTARAN MAJIKAN

Adalah diperakui bahawa

JANA TANMIA (M) SDN BHD
58-1 TRT 2 JLN UTAMA 2/1,
TSH PERZAD, PJAJU JAYA,
47100, PUCHONG,
SEL.

telah didaftarkan mengikut seksyen 41(1), Akta Kumpulan Wang Simpanan Pekerja 1991 dan kaedah 58 kaedah-kaedah KWSP 1991 pada 23 haribulan FEBRUARI 2001 dan Nombor Pendaftaran Majikan adalah seperti di atas.

Tarikh tanggungannya untuk membayar caruman kepada Kumpulan Wang Simpanan Pekerja akan bermula dari bulan FEBRUARI 2001

Bertarikh pada 23 FEBRUARI 2001

PENGERUSI LEMBAGA
KUMPULAN WANG SIMPANAN PEKERJA

m. MIDA - MEDICAL GAS PIPELINE SYSTEMS

ASAL ORIGINAL

KEMENTERIAN PERDAGANGAN ANTARABANGSA DAN INDUSTRI MALAYSIA

Boisong ICA 7 (Pin 1/08)
Form ICA 7 (Rev. 1/08)

MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY OF MALAYSIA

AKTA PENYELARASAN PERINDUSTRIAN, 1975
LESEN PENGILANG
INDUSTRIAL CO-ORDINATION ACT, 1975
MANUFACTURING LICENCE

No. Siri: A 034431
(Serial No):

No. Lesen: A 020220
(Licence No):

PADA MENURUT AKTA PENYELARASAN PERINDUSTRIAN, 1975
IN PURSUANCE OF THE INDUSTRIAL CO-ORDINATION ACT, 1975

Saya memberi lesen kepada JANA TANMIA RESOURCES SDN. BHD.
(Nama pemohon/ Applicant name)

untuk bertindak sebagai PENGILANG BERLESEN mulai dari 14 Julai 2015
to act as LICENSED MANUFACTURER as from (Tarikh/Date)

ditempat pengilangan beralamat No. 7, Jalan Kota Raja H27/H, HICOM Town Centre, Section
at the place of manufacturing at 27, 40400 Shah Alam Selangor

bagi keluaran yang dinyatakan di bawah ini dan tertakluk kepada syarat yang dilampirkan bersama ini
for product (s) specified hereunder and subject to the conditions attached herewith:

Keluaran Product 'Medical Gas Pipeline Systems'

Bertarikh pada 22 November 2015
Dated this Nov 2015

PEGAUAI PELESEN
LICENSING OFFICER
DATO' HJ. NIK RAHMAT NIK TAIB
Tetapan Ketua Setiausaha (Jabatan)
Kementerian Perdagangan Antarabangsa dan Industri
Malaysia

n. MIDA - HEATING, VENTILATION & AIR CONDITIONING (HVAC) SYSTEMS

ASAL ORIGINAL

KEMENTERIAN PERDAGANGAN ANTARABANGSA DAN INDUSTRI MALAYSIA

Boisong ICA 7 (Pin 1/08)
Form ICA 7 (Rev. 1/08)

MINISTRY OF INTERNATIONAL TRADE AND INDUSTRY OF MALAYSIA

AKTA PENYELARASAN PERINDUSTRIAN, 1975
LESEN PENGILANG
INDUSTRIAL CO-ORDINATION ACT, 1975
MANUFACTURING LICENCE

No. Siri: A 034748
(Serial No):

No. Lesen: A 020220
(Licence No):

PADA MENURUT AKTA PENYELARASAN PERINDUSTRIAN, 1975
IN PURSUANCE OF THE INDUSTRIAL CO-ORDINATION ACT, 1975

Saya memberi lesen kepada JANA TANMIA RESOURCES SDN BHD
(Nama pemohon/ Applicant name)

untuk bertindak sebagai PENGILANG BERLESEN mulai dari 09 Mac 2016
to act as LICENSED MANUFACTURER as from (Tarikh/Date)

ditempat pengilangan beralamat No.7, Jalan Kota Raja H27/H, Hicom Town Centre, Section 27,
at the place of manufacturing at 40400 Shah Alam, Selangor

bagi keluaran yang dinyatakan di bawah ini dan tertakluk kepada syarat yang dilampirkan bersama ini
for product (s) specified hereunder and subject to the conditions attached herewith:

Keluaran Product 'Heating, Ventilation and Air Conditioning (HVAC) Systems'

Bertarikh pada 6 Jun 2016
Dated this Jun 2016

PEGAUAI PELESEN
LICENSING OFFICER
DATO' HJ. NIK RAHMAT NIK TAIB
Tetapan Ketua Setiausaha (Jabatan)
Kementerian Perdagangan Antarabangsa dan Industri
Malaysia

8.0 COMPANY REGISTRATION & MEMBERSHIP

8.2 REGISTRATION WITH CLIENTS

Petroleum Nasional Berhad

Felda Holding Berhad

Suruhanjaya Perkhidmatan Air Negara

Telekom Malaysia Berhad

Sirim Berhad

Universiti Teknologi MARA

Syarikat Bekalan Air Selangor Sdn. Bhd.

Projek Penyelenggaraan Lebuhraya Berhad

Malaysia Airports Holding Berhad

POS Malaysia

QSR Brands Bhd

Syarikat Prasarana Negara Berhad

Radicare (M) Sdn Bhd

Majlis Perbandaran Subang Jaya

UEM Builders Sdn Bhd

Emkay Group

Uda Daya Urus Sdn Bhd

Cyberview Sdn Bhd

Management Science University (MSU)

Johawaki Group

George Kent (m) Berhad



a. PROPEL

NO SIRI
P 0948

PROPEL

**PROJEK PENYELENGGARAAN LEBUHRAYA
BERHAD**
(171667-P)

SIJIL PENDAFTARAN SYARIKAT

Tempoh Sah Laku : Dari 15 Januari 2011 sehingga 14 Januari 2016

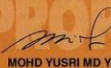
No. Rujukan Pendaftaran : 1297

Bahawa dengan ini diprakarai syarikat :

JANA TANMIA (M) SDN BHD (382767-D)
No. 11, Jalan Kota Raja H27/H
Hicom Town Centre
40400 Shah Alam
Selangor

telah berdaftar dengan Projek Penyelenggaraan Lebuhraya Berhad (PROPEL BHD) sebagai Kontraktor /-Pembekal /-Panel-Workshop /-Remunding /-Consultant

Kelulusan ini adalah tertakluk kepada syarat - syarat seperti dinyatakan di belakang sijil ini.


MOHD YUSRI MD YUSOF
PENGARAH URUSAN

b. TENAGA NASIONAL BERHAD


TENAGA NASIONAL
(200866-W)

Dengan Ini Disahkan Bahawa

JANA TANMIA (M) SDN. BHD.
NO.11, JALAN KOTA RAJA H27/H
SEKSYEN 27, HICOM TOWN
CENTRE
40400 SHAH ALAM
SELANGOR

telah berdaftar dengan Tenaga Nasional Berhad sebagai

**KONTRAKTOR KERJA AWAM
KONTRAKTOR KERJA ELEKTRIK
PEMBEKAL & KONTRAKTOR PERKHIDMATAN**

BUTIR-BUTIR PENDAFTARAN

NO. PENDAFTARAN TNB	: 3013166
NO. PENDAFTARAN SYARIKAT	: 382767D
TEMPOH SAHLAKU (A) SEHINGGA	: 10 APRIL 2014
TEMPOH SAHLAKU (E) SEHINGGA	: 03 OGOS 2014
TEMPOH SAHLAKU (KK) SEHINGGA	: 26 JULAI 2015

Tarikh tempoh sahlaku pendaftaran ini adalah tertakluk kepada tempoh sahlaku pendaftaran siji-siji Kementerian Kemajuan, Pusat Khidmat Kontraktor Awam (PKK A) dan Pusat Khidmat Kontraktor Elektrik (PKE E) dan siji-siji profesional yang berkaitan.

Ini adalah cetakan komputer tidak memerlukan tandatangan

c. FGV HOLDINGS BERHAD


FELDA GLOBAL VENTURES HOLDINGS BERHAD
(800165-P)

AKUAN PENDAFTARAN VENDOR

NO. RUJUKAN PENDAFTARAN : B-0106130042-01
TEMPOH KELAYAKAN : 01/06/2013 - 31/05/2016

Adalah dengan ini diprakarai bahawa vendor yang dinyatakan di bawah ini telah berdaftar dengan FELDA HOLDINGS BHD dan layak untuk menyertai tawaran sebut harga / tender di Syarikat-Syarikat Kumpulan FELDA.

NAMA DAN ALAMAT BERDAFTAR (NO. SYARIKAT : 382767-D)

JANA TANMIA (M) SDN BHD
NO.11, JALAN KOTA RAJA H27/H, HICOM TOWN
CENTRE, SEKSYEN 27,
40400 SHAH ALAM,
SELANGOR

KOD BIDANG ADALAH SEPERTI BERIKUT :

KOD BIDANG	KETERANGAN	GRAD
0101	Kajutersean Awam	8
0102	Kajutersean Mekanikal	8
0103	Kajutersean Elektrikal	8

Penting: Permohonan pembaharuan sijil hendaklah dibuat seawal-lewatnya 30 hari sebelum tarikh tamat tempoh perakuan sijil (Rujuk syarat perkara 5 di belakang sijil ini)



LI
(DATO' IR. JAMILUS AZIZ)
Naib Presiden & Ketua
Perkahan Kumpulan

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

d. PRASARANA NEGARA BERHAD


Syarikat Prasarana Negara Berhad (1667220-U)

8-20, Level 20, Menara 208, Bangunan No. 3, Jalan Sungai Besi 1, 50000 Kuala Lumpur.
Tel: +603-2299 1899 / 2287 9559 Fax: +603-2299 1919 Website: www.prasarana.com.my

Our Ref: PRASARANA/GPD/EOI/1319-2013

8 4 JUN 2013

JANA TANMIA (M) SDN BHD
NO 11 Jalan Kota Raja
H27/H Hicom Town Centre
Seksyen 27
40400 Shah Alam
Selangor

**IMMEDIATE ATTENTION
BY MAIL**

ATTN: **Mohd Asyraf B Nazli**
Finance Manager

Dear Sir/Madam,

RE: REGISTRATION AS VENDOR/SUPPLIER/CONSULTANT WITH PRASARANA

We are pleased to inform you that your application to register as vendor/supplier/consultant has been approved and your company is now officially registered with Syarikat Prasarana Negara Berhad (Prasarana).

We shall contact you in the event further or additional information is required.

Kindly be informed a tender advertisement and information of Prasarana's project is available in our website www.prasarana.com.my or News Straits Times and Utusan Malaysia (every Tuesday and Thursday).

Again, on behalf of our entire organization, we appreciate your interest to establish business relationship with Prasarana.

Thank you.

Sincerely,

For and on behalf of
SYARIKAT PRASARANA NEGARA BERHAD



e. UiTM

UNIT PANGGILAN TENDER
DAN SEBUT HARGA
BAHAGIAN PENGURUSAN PEROLEHAN
PEJABAT BENDAHARI
TEL : 03-5544 3478/3471/3328
FAX : 03-5544 3321

UNIVERSITI TEKNOLOGI MARA
40150, Shah Alam
Selangor Darul Ehsan, Malaysia.
Tel : 03 5542000
Fax : 03 5542223

Rujukan Kami : 300-BB1(PER/10/6)
Tarikh : 17 hb April 2010

JANA TANMIA (M) SDN BHD.
NO. 11, JALAN KOTA RAJA H27/H
SECTION 27, HICOM TOWN CENTRE
40150 SHAH ALAM
SELANGOR
No. Tel : 019-2751162

Tuan/Puan,

PENDAFTARAN SYARIKAT.
Permohonan tuan/puan untuk berdaftar dengan UiTM bagi perkhidmatan/ kerja-kerja /
bekalan dan rundingan terus adalah diirujuk.
Sukacita dimaklumkan bahawa permohonan pendaftaran tuan/puan adalah diluluskan.
Nombor Vendor/Pendaftaran tuan/puan adalah seperti berikut:-

382767-D

Nombor rujukan ini hendaklah sentiasa digunakan bagi sebarang urusan Perolehan
UiTM

Sekian, terima kasih.

Saya yang menurut perintah,

ANJALIN BIR YAHAYA
Pentadbir Tadbir Kewangan Tertinggi
Unit Panggilan Tender & Sebut Harga
b/p Bendahari

Kemud 14/2/2010

f. SYABAS

SYARIKAT BEKALAN AIR SELANGOR SDN. BHD. (019251-7)
Pusat Surut 5001, Jalan Pintas Baharu, 50950 Kuala Lumpur. Tel: 03-2282 6244 Fax: 03-2282 7956
Laman Web: http://www.syabas.com.my Email: pucpel@syabas.com.my

SEKSYEN PENYERTAAN & PEMBANGUNAN USAHAWAN BUMIPUTERA
AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

Tarikh : 20 Mei 2010
No. Rujukan : SYA/EC/STD/PPUB/COR/COMREGCONT/1/10 (042)

JANA TANMIA (M) SDN BHD
No. 11, Jalan Kota Raja H27/H,
Section 27, Hicom Town,
40150 Shah Alam,
Selangor Darul Ehsan

Tuan / Puan,

**PENDAFTARAN SYARIKAT BUMIPUTERA SEBAGAI KONTRAKTOR DI BAWAH
SEKSYEN PENYERTAAN & PEMBANGUNAN USAHAWAN BUMIPUTERA,
JABATAN TUGAS-TUGAS KHAS, PEJABAT Pengerusi EKSEKUTIF, SYARIKAT
BEKALAN AIR SELANGOR SDN BHD**

Merujuk kepada perkara di atas dengan sukacita dimaklumkan bahawa syarikat
tuan telah didaftarkan dengan Seksyen Penyertaan & Pembangunan Usahawan Bumiputera
(PUB), SYABAS sebagai Kontraktor dengan No. Pendaftaran adalah
PPUB/Cont0674.

Sekiranya pihak tuan / puan dijemput untuk menyertai program-program latihan
keusahawanan yang dianjurkan oleh Seksyen PPUB, adalah **DIWAJIBKAN** pihak
tuan / puan untuk menyertainya kerana program-program khas berhubung
pembangunan usahawan akan diadakan dari masa ke semasa oleh seksyen ini
untuk meningkatkan lagi keupayaan syarikat Bumiputera di dalam menjalankan
perniagaan.

Sekian, terima kasih.

Dengan hormat,
SYARIKAT BEKALAN AIR SELANGOR SDN BHD

MOHAMMAD ISA MOHD YASIN, AMS
Pegawai Khas Kepada YBhg Tan Sri Pengerusi Eksekutif / Pengerusi Besar Kanan
Seksyen Penyertaan & Pembangunan Usahawan Bumiputera
Jabatan Tugas-Tugas Khas, Pejabat Pengerusi Eksekutif

PUSPEL
PUSAT PERKHIDMATAN PELANGGAN
Terdapat di dalam bilik 101
1-800-88-5252

hantarkan RM5 anda ke
39222
dengan mengimbas PUSPEL kepada anda
Pusat Perkhidmatan Pelanggan
Pusat Perkhidmatan Pelanggan

g. MAJLIS PERBANDARAN SUBANG JAYA

RM10.00 MPJS 344/859-1984

MAJLIS PERBANDARAN SUBANG JAYA

Sijil Pendaftaran

Dengan ini di perakui bahawa syarikat seperti butir-butir berikut telah berdaftar
sebagai Kontraktor / Pembekal di Majlis Perbandaran Subang Jaya.

NAMA DAN ALAMAT SYARIKAT **TEMPOH SAH LAKU**

JANA TANMIA (M) SDN BHD **SAH LAKU**
5B-1, 2ND FLOOR, **SEHINGGA : 27 FEB 2008**
JALAN UTAMA 2/1,
TAMAN PERINDUSTRIAN MAJU JAYA,
47100 PUCHONG,
SELANGOR DARUL EHSAN

Berdaftar dengan Kementerian Kewangan Malaysia dalam bidang
bekalan/perkhidmatan di bawah kepala dan sub-kepala berikut :

020101, 020201, 020400, 030100, 090100, 090300, 100103, 130100,
140200, 150100, 160200, 190203, 220101, 220103, 220104, 220105,
220108, 220109, 220110, 220115, 220301, 220401, 220402, 220403,
220405, 210101, 210102, 210103, 210104, 210105, 180100, 220102,
220106, 220111, 220113 ***

Kota Nagari,
Kedudukan Selat

Yang Dipertua
MAJLIS PERBANDARAN SUBANG JAYA
28 FEB 2008

h. POS MALAYSIA BERHAD

NO.AA001776

POS MALAYSIA BERHAD
(229990-M)

AKUAN PENDAFTARAN KONTRAKTOR

NO. RUJUKAN PENDAFTARAN : PMB/PK/1138/1082(3723)
TEMPOH : 03012007 - 02012009

JANA TANMIA (M) SDN BHD
NO. 11, JALAN KOTA RAJA H27/H SECTION 27
HICOM TOWN CENTRE 40150 SHAH ALAM
SELANGOR DARUL EHSAN

Isilah berdaftar dengan Pos Malaysia Berhad dalam bidang bekalan/perkhidmatan kerja di bawah kepala dan sub
kepala berikut:

020100 - PERABUT
020200 - MESIN - MESIN PEJABAT
020300 - PERKAKAS ELEKTRIK
020400 - KOMPUTER DAN KELENGKAPAN
030100 - ALAT SISTEM CECAM KEBAKARAN
070100 - ALAT GANTI DAN ACCESSORIES
080401 - PEST CONTROL / ANTI TERMITE BANGUNAN
080501 - MENUCUTI BANGUNAN
080502 - MEMBERSIH KAWASAN

Keluaran ini adalah terikat kepada syarat-syarat seperti dinyatakan di sebelah:

Tarikh : 12 JAN 2007

i. PETRONAS



COMPANY'S NAME : JANA TANMIA RESOURCES SDN. BHD. (382767-D)
LICENSE NO : 382767-D
LICENSE PERIOD : 12.09.2017 - 11.09.2020

CATEGORIES OF LICENSE / REGISTRATION					
APPROVED LICENSE CATEGORIES					
L/R/PROVISIONAL	Service / Supplier Code	Mode of Operation	Principal Name (If Applicable)	Approval Date / Time	Expiry Date
LICENSE	PA1040000 AUTOMOTIVE-AIR-CONDITIONER	DEALER	NOT APPLICABLE	12.09.2017 18:14:40	11.09.2020
LICENSE	PH1010100 HEATING VENTILATN&AIR COND-FANS-GENERAL	DEALER	NOT APPLICABLE	12.09.2017 18:02:51	11.09.2020
LICENSE	PH1010200 HEATING VENTILATN&AIR COND-FANS-HAZARDOUS AREA	DEALER	NOT APPLICABLE	12.09.2017 18:14:23	11.09.2020
LICENSE	PH1020000 HEATING VENTILATN&AIR COND-FILTERS	DEALER	NOT APPLICABLE	12.09.2017 18:14:27	11.09.2020
LICENSE	PH1030100 HEATING VENTILATN&AIR COND-AIR HANDLG UNITS-GENERAL	DEALER	NOT APPLICABLE	12.09.2017 18:14:30	11.09.2020
LICENSE	PH1030200 HEATING VENTILATN&AIR COND-AIR HANDLG UNITS-HAZARDOUS AREA	DEALER	NOT APPLICABLE	12.09.2017 18:14:38	11.09.2020
LICENSE	PH1030300 HEATING VENTILATN&AIR COND-AIR HANDLG UNITS-COMPUTER ROOM	DEALER	NOT APPLICABLE	12.09.2017 18:14:38	11.09.2020
LICENSE	PH1040000 HEATING VENTILATN&AIR COND-FAN COILS	DEALER	NOT APPLICABLE	12.09.2017 18:14:38	11.09.2020
LICENSE	PH1050100 HEATING VENTILATN&AIR COND-CHILLERS-NON-HAZARDOUS-AREA (Reclassified from PH1050200 & PH1050300)	DEALER	NOT APPLICABLE	12.09.2017 18:14:39	11.09.2020
LICENSE	PH1050400 HEATING VENTILATN&AIR COND-CHILLERS-HAZARDOUS AREA	DEALER	NOT APPLICABLE	12.09.2017 18:14:41	11.09.2020
LICENSE	PH1060100 HEATING VENTILATN&AIR COND-CONDENSER UNITS-NON-HAZARDOUS AREA	DEALER	NOT APPLICABLE	12.09.2017 18:14:39	11.09.2020
LICENSE	PH1060200 HEATING VENTILATN&AIR COND-CONDENSER UNITS-HAZARDOUS AREA	DEALER	NOT APPLICABLE	12.09.2017 18:14:41	11.09.2020
LICENSE	PI1500000 INSTR-BUILDING AUTOMATION	DEALER	NOT APPLICABLE	12.09.2017 18:14:41	11.09.2020
REGISTRATION	SC2140000 CIVIL MAINT SERV-GRASS CUTTING & REGRADING EARTH DRAINS	SELF-OPERATED	NOT APPLICABLE	12.09.2017 17:34:19	11.09.2020
LICENSE	SC3030400 CONSULTANCY SERV-INDUSTRIAL HYGIENE SURVEY & SERV	SELF-OPERATED	NOT APPLICABLE	12.09.2017 18:14:39	11.09.2020

This is a computer generated printout and no signature from PETRONAS is required.



COMPANY'S NAME : JANA TANMIA RESOURCES SDN. BHD. (382767-D)
LICENSE NO : 382767-D
LICENSE PERIOD : 12.09.2017 - 11.09.2020

CATEGORIES OF LICENSE / REGISTRATION					
APPROVED LICENSE CATEGORIES					
L/R/PROVISIONAL	Service / Supplier Code	Mode of Operation	Principal Name (If Applicable)	Approval Date / Time	Expiry Date
LICENSE	SM3032000 MARINE TRANSPORTATION SERV-AIR-CONDITNING&REFRIGERATN REPAIR	SELF-OPERATED	NOT APPLICABLE	12.09.2017 18:14:40	11.09.2020
LICENSE	SM3032102 MARINE TRANSPORTATION SERV-PLATE	SELF-OPERATED	NOT APPLICABLE	12.09.2017 18:14:42	11.09.2020
LICENSE	SO1140000 OFFICE ADMINISTRATIVE SERVICES-PROPERTY/BUILDING MANAGEMENT (RECLASSIFIED FROM SC2070000-CIVIL MAINT SERV-PROPERTY / BUILDING MNGMT)	SELF-OPERATED	NOT APPLICABLE	12.09.2017 18:14:42	11.09.2020
REGISTRATION	SO1150300 OFFICE ADMINISTRATIVE SERVICES-PROPERTY MAINTENANCE SERVICES-BUILDING CLEANING SERVICES (RECLASSIFIED FROM SC2150000-CIVIL MAINT SERV-BUILDING CLEANING SERV AND/OR PO1035000-OFFICE/OPERATIONAL EQUIP-RESIDENTIAL EQUIP-FARADE SYST)	SELF-OPERATED	NOT APPLICABLE	12.09.2017 17:34:21	11.09.2020
LICENSE	SO2020300 OFFSHORE FACILITIES CONST-COMM SPECIALIST ELECT & INSTR SYST	SELF-OPERATED	NOT APPLICABLE	12.09.2017 18:14:40	11.09.2020

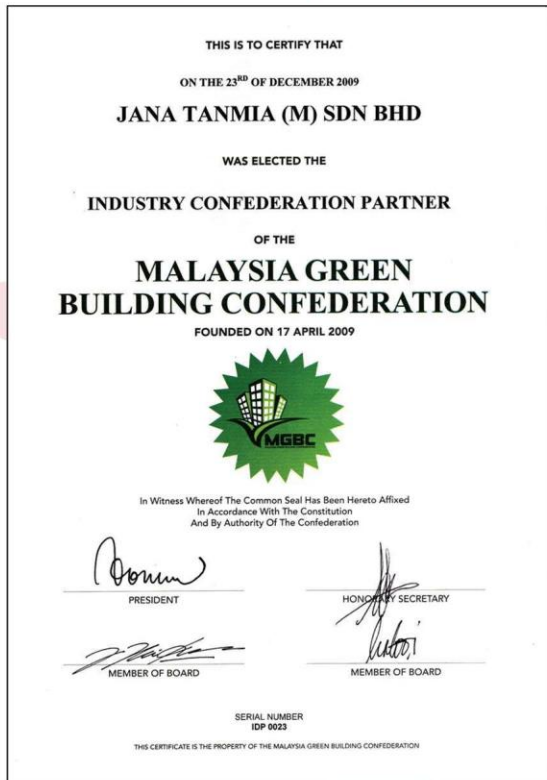
*** END ***

This is a computer generated printout and no signature from PETRONAS is required.

8.0 COMPANY REGISTRATION & MEMBERSHIP

8.3 CORPORATE MEMBERSHIP

a. MALAYSIAN GREEN BUILDING CONFEDERATION (MGBC)



b. MALAYSIA ASSOCIATION OF ENERGY SERVICE COMPANIES (MAESCO)



c. MALAYSIAN ASSOCIATION OF FACILITY MANAGEMENT (MAFM)



d. THE MALAYSIAN ASSET AND PROJECT MANAGEMENT ASSOCIATION (MAPMA)



9.0

COMPANY
ORGANIZATIONAL
CHART



GENERAL ORGANIZATION CHART



- »» Chairman
- »» Board of Director
- »» Managing Director
- »» Executive Director



Managing Director
Office Department

Director

MDO Assistant

MD Driver



Business Development
Department

Business Development
Manager

Executive



Contract & Technical Support
Department

Sr. Quantity Surveyor

Quantity Surveyor

Draughtsperson



Operation
Department

Operation Director

Sr. OPR Coordinator

OPR Coordinator



Human Resource & Administration
Department

HRA Manager

Admin



Financial Control
Department

Finance Director

Finance Executive

Admin



Safety & Health
Department

Safety Officer

Site Safety
Supervisor

Project Manager

Project Engineer

Facility Manager

Assistant FM

Engineer Mechanical & Electrical

Admin/OPR Coordinator

Engineer Civil

Head of Cleansing

BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

10.0

MANAGEMENT TEAM CURRICULUM VITAE



PERSONAL INFO

Name : Dato' Ts. Haji Mohd Zaidi Bin Ilamdin
Position : Managing Director / Chief Technical Officer
Mobile Phone : +6019 222 1169
Email : mohdzaidi@jtr.my
Address : No. 11, Jalan Kota Raja H27/H, Section 27,
Hicom Town Centre, Shah Alam, Selangor D.E.



EDUCATION BACKGROUND

College / University : Universiti Kebangsaan Malaysia (UKM)
- B. Sc. (Hons) Nuclear Science (1993)

Matriculation : Kolej Sultan Abdul Hamid, Alor Setar (1988)

High School : Sekolah Alam Shah, Cheras
- Sijil Pelajaran Malaysia, Gred 1 (1986)
- Sijil Rendah Pelajaran, Gred A (1984)

COMPETENCY CERTIFICATIONS

1. Master International Project Manager, MIPM (IAPM, UK)
2. Green Building Index Facilitator, GBIF (MGBC, MY)
3. Certified Energy Auditor, CEA (AEE, USA)
4. Certified Energy Manager, CEM (AEMAS, MY)
5. Corrosion Coating Inspector (NACE Int, USA)
6. Authorized & Competent Person MGPS (BTEC Edexcel, UK)
7. Registered Electrical Energy Manager, REEM (EC, MY)
8. Certified Professional Measurement & Verification, CPMV (MGTC, MY)
9. Authorized Person Healthcare, HVAC (BTEC, UK)
10. Certified Associate in Asset Management, CAAM (AMC, AUS)
11. EnMS ISO 50001 Expert (UNIDO)
12. Competent Person in Facility Management (CIDB, MY)



PROFESSIONAL AFFILIATIONS

INTERNATIONAL

1. Associate Member, American Society of Heating, Refrigerating and Air Conditioning Engineers (ASHRAE)
2. Member of National Association of Corrosion Engineers (NACE)
3. Member of National Fire Protection Association, (NFPA), USA
4. Member of ASHRAE TC 9.6 Healthcare, USA
5. Member of Energy Institute, USA
6. Member of Chartered Institution of Building Services Engineers (CIBSE)
7. Members of International Facility Management Association (IFMA)
8. Life Member of the Association of Energy Engineers (AEE)



LOCAL

1. President of Persatuan Kontraktor Pakar Bumiputera Malaysia (PaKAR)
2. President of International Facility Management Association Malaysia Chapter (IFMA MY)
3. Past President of Association of Energy Engineers Malaysia Chapter (AEE MY)
4. Past Vice President of Malaysian Asset & Project Management Association (MAPMA)
5. Past Deputy President of Persatuan Kontraktor penyelenggaraan & Perkhidmatan Bumiputera Malaysia(PKPP)
6. Committee of Biomedical Engineering Association Malaysia (BEAM)
7. Corporate Member of Malaysia Green Building Confederation (MGBC)
8. Member of Malaysia Chapter of ASHRAE



PROFESSIONAL APPOINTMENT

1. Chairman, Board of Visitor Sunway Medical Hospital
2. Member, JKR IEQ/IAQ Manual Drafting Committee
3. Member, SEDA (Sustainable Energy Development Authority) Committee of Energy Thermal Efficiency for Building Sector
4. Academic Advisory, MFI UNIKL
5. Chairman, CIDB Technical Committee on Asset & Facility Management
6. Committee of ISO / PC251 in Asset Management
7. Committee Member of ISO / TC 267 in Facilities Management
8. Technical Advisor, AEMAS
9. Lecturer, AEMAS
10. Review Panel for JKR in COC of 'FM+EPC

EMPLOYMENT HISTORY

1. Hualon Corporation Berhad, Nilai, Negeri Sembilan (1993 - 1997)

- Plants** : 1) Polycondensation Plant A & B
2) Solid State Polycondensation Plant A& B
- Type of Plant** : PET Production (Petrochemical Based)
- Position** : Leading Process Engineer
- Roles** : 1) Project monitoring team for Plant Mech. Installation by Zimmer AG.
2) Plant radiography test monitoring team.
3) Plan start up/ Commissioning team.
4) Plant efficiency improvement/ Troubleshoot team
5) Plant ISO 9002 Project Team
6) Plant Safety Committee Team
- System Under Supervision** : 1) Polycondensation Plant A&B
2) Solid State Polycondensation Plant A & B (Zimmer AG)
3) Thermal Oil Boiler House (Konnus Kessel)
4) Steam Boiler House (Advance Boiler)
5) Control System :
a) Control Valve (Smith, Austria)
b) Positioner - Smart Type (Siemesns AG)
c) Controller (Siemens AG)
d) DCS (Fischer Rosemount)
6) Nitrogen Purifying System (Silica AG)
7) Chips & Powder Conveying System (Waeschle, AG)
8) Hydrocarbon, Hydrogen & Oxygen Analyzer (Amluk AG)
9) Centrifuge seperator (KVT AG)
10) Co-60 (Gamma Ray) level gauge system (Zimmer AG)

2. Spirax Sarco Sdn. Bhd. (1997 - 2002)

- Type of Business** : Providing knowledge, products & services to the steam & utility fluids users
- Manufacturing Plants** : UK, France, Spain, Argentina, Brazil & Italy
- Malaysia Office** : Servicing the industries in Malaysia by designing & functions engineering of the heating system, selling the right products for the application and after sales services.
- Position** : Executive
- Market** : 1) Malaysia Oil & Petrochemical Market
2) East Coast & East Malaysia Region
- Roles** : 1) Working with clients within the sectors given.
2) Designing the system, specifying the right products for each applications, sales of products, site trouble shooting and commissioning, clients training, energy audit and plant audit.

EXPERIENCES

- Ministry of Health**
- 1) Provides training for all Maintenance Concession Holders Companies of MOH hospitals in upgrading and maintenance of steam system.
 - 2) Provides each site technical solutions and engineering works for all particular problems faced at each hospital.

- Radicare (M) Sdn. Bhd.**
- 1) Provides training on the heating system maintenance and upgrading. The effectiveness of existing steam system in HKL.

- Radicare (M) Sdn. Bhd.**
- 1) Study on the possible upgrading on the steam system in GHKL. Provides existing and upgrading PID for future upgrading purposes. The study done is required under the MOH contract with Radicare.

- World 1st Hotel, Genting Highlands.**
- 1) Provides engineering input and design to the project consultant i.e KTA Tenaga for the steam and boiler system. Sold RM1M worth of piping products for the project.

- Malaysia LNG (Bintulu),
BP Amoco (Gebeng),
Ethylene
Malaysia (Kertih),
Shell Refining
Company (P. Dickson),
FPG (Kuantan)**
- 1) Conducted Energy Audit on their steam system and provides report on the measures to improve the plant efficiency and reduce energy wastage. Sold more than 5 million products for the efficient running of their heating system.

EMPLOYMENT HISTORY

3. Jana Tanmia Resources Sdn Bhd, Shah Alam, Selangor

- Jana Tanmia Resources Sdn Bhd is one of the leading company with specialization in Building Mechanical and Electrical services. Established on the April 1996 and has completed hundreds of projects with the government and private sectors.

Core Competencies :

- 1) Sustainable Facility Management
- 2) Energy Management - Energy Efficient System
- 3) Energy Efficient HVAC / ACMV System
- 4) Building Management / Automation System
- 5) Cleanroom - Operation Theater, Biosafety Lab, GMP Lab & Cleanroom
- 6) Building IAQ, Humidity & Mold Control
- 7) Medical Gas Pipeline System
- 8) Hot Water & Steam System

Position : Managing Director / Chief Technical Officer

Roles :

- 1) Provide company business direction to become the world class company in the area of our specialization.
- 2) Lead Designer and Master Project Manager for all the projects under taken by Jana Tanmia Resources Sdn Bhd and its subsidiaries.
- 3) Develop company overall business and marketing strategy. Develop inhouse competencies and human capital development as the key area of internal growth by making a strategic staff technical training plan for all potential staff at each departments.

EXPERIENCES

Ministry of Health - Advice, consult and technology transfer in the area of latest knowledge and technology involving healthcare facilities.

Radicare (M) Sdn. Bhd. - Provide HVAC/R services for the healthcare facilities and improvement to increase the system quality and efficiency.

Majlis Perbandaran Subang Jaya - Provide yearly Mechanical and Electrical services for the MPSJ assets and facilities.

Uni. Sains Malaysia (USM) - Involve in critical environment projects under USM especially for the clean room, operation theatre and laboratory.

Public Work Department Putrajaya - Provide Comprehensive Maintenance for Presint 10, Putrajaya and provide solution to maintain the area as the federal administrative centre of Malaysia.

Faber Medi-Serve - Provide Mechanical services and total solution for the healthcare facilities under FMS for the Sabah region.

PERSONAL INFO

Name : Datin Sarina Binti Abdul Rashid
Position : Executive Director
Email : sarina@jtr.my
Years of Experience : 20 years



EDUCATION BACKGROUND

High School : SMK Mantin, Negeri Sembilan (SPM)
College / University : Mapor Business and Computer Studies College

POSITION ROLES

Jana Tanmia Resources Sdn Bhd (2002- present)

Position : Executive Director

1. Report directly to the Managing Director (MD) and perform all duties assigned by the MD.
2. Responsible for the whole company's administrative and accounts matter to make sure that the company is running smoothly. This includes :
 - a) Maintaining and securing all documentation in proper filing system especially P&C matters for an effective operation of the company.
 - b) Handling company's HR matters and preparing monthly payroll matters.
 - c) Delegating and organizing work for the staff so that they could work effectively and efficiently.
 - d) Prepare and handle all P&C documentation for the company.
 - e) Prepare payment transactions (i.e to the Subcontractors, Suppliers, Payroll, Utilities and etc) and update weekly accounting.
3. Maintain regular contact with existing customers especially their decision makers.
4. Calculate cost for customers's quotations.
5. Contact & deals with all subcontractors and suppliers (existing and new ones).
6. Fully arrange & overlook all issues pertaining to Financial Control, Admin and Human Resource matters.

PROFESSIONAL TRAINING

1. A Practical Foundation in Accounting Principles Practice
2. Managing Your Finance Function Efficiently
3. Mastering Effective People Management Skills
4. Pentadbir Pejabat yang Cemerlang
5. Kursus Pengurusan Pembinaan (Asas Memahami Pelan Dan Peranggaran Harga Bangunan)
6. Apresiasi dan Dokumentasi MS ISO 9001: 2000

PERSONAL INFO

Name : Mohd Nashriq Bin Sulaini
Position : Director
Email : nashriq@jtr.my
Years of Experience : 16 years



EDUCATION BACKGROUND

High School : Maktab Rendah Sains Mara, Kuantan (SPM)
College / University : Kolej Matrikulasi Melaka
Universiti Teknikal Malaysia Melaka (UTeM)
-Bachelor of Mechanical Manufacturing Engineering

POSITION ROLES

Jana Tanmia Resources Sdn Bhd (2011-present)

Position : Director

1. To provide leadership for the company's Quality Assurance / Quality Control.
2. Management to support STSD to ensure that all work performed on all project sites meet the projects(s) procedures and contracts requirements.
3. To develop, implement and maintain for the procedure on ISO 9001 JTRSB QMS.
4. To develop, implement and audit process of quality assurance program / plan for the project based on ISO 9001 and JTRSB procedures (SOP).
5. To act as Quality Management Representative (QMR) and prepare for regular "Management Review Meetings" and interact with ISO Consultant and Auditor.

PROFESSIONAL TRAINING

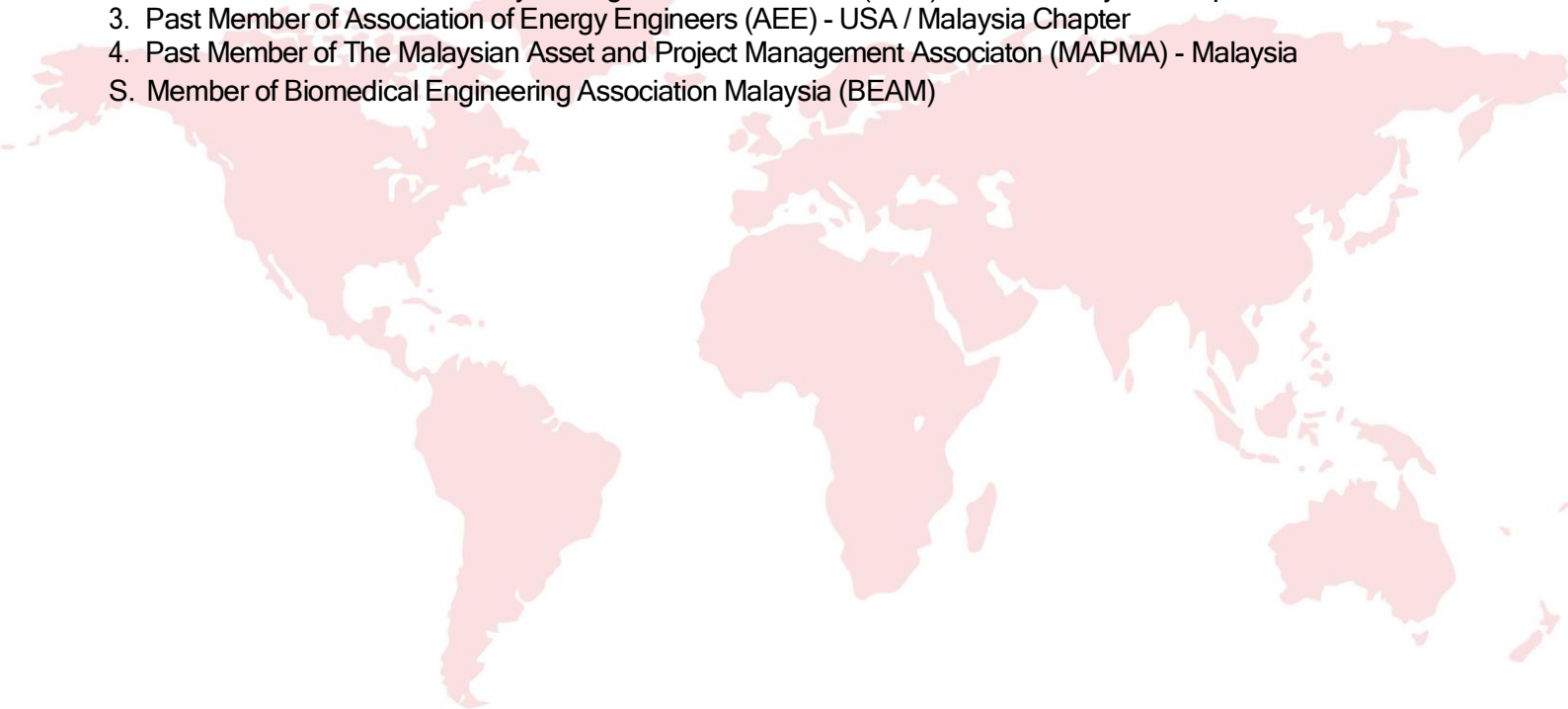
1. Internal University Project - Occupational Safety & Health, Ergonomic.
2. University Project Research - Design Solar Panel that Assisted Drying Machine.
3. Internal Canon Training - Job familiarization, Management Control.
4. Sime - SIRIM - Basic Calibration & Measurement (Sime - SIRIM) / Product Environment System (EMS). Awareness, fire Evacuation Drill.
5. External Canon Training - Team Building & Skill Up.
6. Internal Canon Training - Calibration Canon Training
7. CIDB - Microsoft Project
8. Sysnovate Solutions Sdn. Bhd. - Preparing Project Quality Plan & QA/QA Documentation.
9. Sysnovate Solutions Sdn. Bhd. - Project filing System & Record Control.
10. CIDB - Understanding Condition of Contract.
11. IfMA - Certified facility Manager (CfM)
12. Goal Horizon - Leadership Enhancement Program.
13. MPS Management - 10 Tools for Highly Effective Management.
14. AEMAS - Energy Manager Training Course.

COMPETENCY CERTIFICATIONS

1. Certified Energy Manager (CEM) - Asian Energy Management Scheme (AEMAS)
2. Certified Healthcare facilities Manager, CHfM (GAfM, MY)
3. Certified Competent Of Healthcare Contractor, SKKK (JKR, MY)

COMPETENCY AFFILIATIONS

1. Secretariat of Persatuan Kontraktor Pakar Bumiputera Malaysia (PaKAR)
2. Member of International facility Management Association (IfMA) - USA / Malaysia Chapter
3. Past Member of Association of Energy Engineers (AEE) - USA / Malaysia Chapter
4. Past Member of The Malaysian Asset and Project Management Associaton (MAPMA) - Malaysia
- S. Member of Biomedical Engineering Association Malaysia (BEAM)



PERSONAL INFO

Name : Mohd Nasir Bin Yatollah
Position : Operation Director
Email : mohdnasir@janatanmia.com.my
Years of Experience : 15 years



EDUCATION BACKGROUND

High School : SMK Seri Tanjung, Kuala Selangor (SPM)
College / University : Universiti Teknologi Mara (UiTM)

POSITION ROLES

Jana Tanmia Resources Sdn Bhd (2009- present)

Position : Operation Director

1. Understand and master all scope of works, responsibilities & terms of agreement entered between JTR and users or customers for each site to handle.
2. Understand the level of installation quality that is required by the customers and ensure that project implementation will atleast meet the standard and quality required and most of time, exceed the quality required.
3. Control facility management and maintenance, operation or construction cost to be always lower than the project estimation.
4. Ensure the project delivery or completion of any task required by the customer or as required by the contract entered between JTR and customers always done within the stipulated time given.
5. Undertake the preparation of Work Programme, Material Ordering, and Delivery Plan, responsible for own procurement of parts and material other than major material projects procurements which will be handled by TSD.
6. Overview facilities management and maintenance contracts.

PROFESSIONAL TRAINING

1. *Climaveneta Chat Union* - Technical Aftersales Training Course
2. *ASHRAE Malaysia Chapter* - Technical Seminar on Cleanroom Design
3. *iKnowledge - Beyond Maintenance 4* - Integrating Proactive Maintenance Strategies and Engineering Asset Management, Maintenance Management Seminar
4. *CWORKS* - Computerized Maintenance Management Systems (CMMS Netmain)
5. *Jabatan Kerja Raya (JKR)* - Bengkel Kefahaman Perlaksanaan PWD FM 2008

COMPETENCY CERTIFICATION

1. Competent Person MGPS Installation - Eastwood Park Training

PROFESSIONAL AFFILIATIONS

1. Member of International Facility Management Association (IFMA) - USA / Malaysia Chapter
2. Member of Persatuan Kontraktor Pakar Bumiputera Malaysia (PaKAR)- Malaysia



PERSONAL INFO

Name : Shahira Binti Mohammad Yusop
Position : Sr. Quantity Surveyor
Email : shira.bdttd.jtr@gmail.com
Years of Experience : 7 years



EDUCATION BACKGROUND

High School : SMK Jalan 3, Bandar Baru Bangi (SPM)
College / University : Universiti Tenaga Nasional (Uniten)
-Bachelor of Electrical Power Engineering (Hons)

POSITION ROLES

Jana Tanmia Resources Sdn Bhd (2017-present)

Position : Sr. Quantity Surveyor

1. Business development which include of sales, tender bid participation, tender document preparation and contract negotiation.
2. Design M&E services for building construction.
3. Project management for design and built project.
4. Project management for facility, mechanical and electrical services.
5. Project procurement.

PROFESSIONAL TRAINING

1. ASHRAE Malaysia Chapter - Technical Seminar on Cleanroom Design.
2. CIDB - Microsoft Project.
3. CIDB - GreenTech Malaysia - Green Technology - fundamentals and Opportunities.
4. Distech Control - Distech Control Applications and Controllers - factory Certification Program.
5. iKnowledge - Operation & Troubleshooting of Centralized Chilled Water HVAC System.
 - Efficient Operation & Troubleshooting of Centralized Chilled Water HVAC
 - Beyond Maintenance 4 - Integrating Proactive Maintenance Strategies and Engineering Asset Management, Maintenance Management Seminar.

PROFESSIONAL TRAINING

1. Member of Association of Energy Engineers (AEE) - USA
2. Member of International facility Management Association (IfMA) - USA
3. Member of Persatuan Kontraktor Pakar Bumiputera Malaysia (PAKAR) - Malaysia

11.0

KEY PERSONNEL



11.0 KEY PERSONNALS



Name Nurul Hazwani Binti Ab Razak
Position HRA Manager
Email hr@janatanmia.com.my



Name Yasmin Binti Abdul Rashid
Position HR Executive
Email hr@janatanmia.com.my



Name Haslynda Binti Mohd Sam
Position Sr. Opr Coordinator
Email lyn.opr.jtr@gmail.com



Name Wan Mohd Hafizi Bin Wan Hassan
Position Engineer
Email hafizi.opr@gmail.com



Name Mohd Syahir Bin Che Sohaimi
Position MDO
Email opr@janatanmia.com.my

11.0 KEY PERSONNALS



Name Danish Adil Bin Halim Idris
Position Draughtman
Email danish.bdtSD@gmail.com



Name Mohd Zulhafiz Bin Zakaria
Position Admin
Email epitnarni@gmail.com



Name Mohd Azmin Bin Abdul Rashid
Position Admin Executive
Email adminjtr@gmail.com

12.0

SPECIALISATIONS & PROJECT REFERENCES



12.0 SPECIALIZATIONS & PROJECT REFERENCES



12.1 SUSTAINABLE FACILITY MANAGEMENT



12.2 ENERGY MANAGEMENT - ENERGY EFFICIENCY SYSTEM



12.3 ENERGY EFFICIENT HVAC/ACMV SYSTEM



12.4 BUILDING MANAGEMENT / AUTOMATION SYSTEM



12.5 CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM



12.6 BUILDING, IAQ HUMIDITY & MOLD CONTROL



12.7 MEDICAL GAS PIPELINE SYSTEM



12.8 HOT WATER & STEAM SYSTEM



12.1 SUSTAINABLE FACILITY MANAGEMENT

12.1.1 SUSTAINABLE FACILITY MANAGEMENT

12.1.2 CONSULTANCY OF FACILITIES MANAGEMENT
BASED ON ISO 41001

12.1.3 CONSULTANCY OF ASSET MANAGEMENT
BASED ON ISO 55001





12.1.1 SUSTAINABLE FACILITY MANAGEMENT

WHAT IS FACILITY MANAGEMENT ?

EN 15221-1 2006

The integration of processes within an organisation to maintain and develop the agreed services which support and improve the effectiveness of its primary activities.

INTERNATIONAL FACILITY MANAGEMENT ASSOCIATION (IFMA)

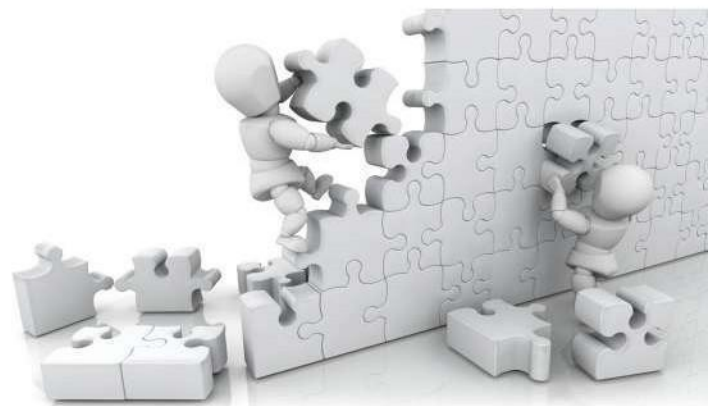
Facility management is a profession that encompasses multiple disciplines to ensure functionality of the built environment by integrating people, place, process and technology.

FACILITY MANAGEMENT SCOPE

- 1) Maintenance Of Civil , M & E Works
- 2) Landscaping And Ground Maintenance
- 3) Rubbish Collection & Disposal
- 4) Cleaning & Cleansing Services
- 5) Pest Control
- 6) Safety & Security
- 7) Project Management
(Renovation, Upgrading, Extension)
- 8) It (Information & Communication Technology)
- 9) Catering & Vending
- 10) Event Management
- 11) Logistics & Fleet Management
- 12) Parking
- 13) Design & Construction Services
- 14) Energy Management
- 15) Sustainability

CORE COMPETENCIES OF FM PROFESSION

1. Communication
2. Emergency Preparedness and Business Continuity
3. Environmental Stewardship and Sustainability
4. Finance and Business
5. Human Factors
6. Leadership and Strategy
7. Operations and Maintenance
8. Project Management
9. Quality
10. Real Estate and Property Management
11. Technology





12.1.1 SUSTAINABLE FACILITY MANAGEMENT

WHAT IS MAINTENANCE MANAGEMENT ?

Maintenance management is an orderly and systematic approach to planning, organizing, monitoring and evaluating maintenance activities and their costs. A good maintenance management system coupled with knowledgeable and capable maintenance technical staff can prevent health and safety problems and environmental damage; yield longer asset life with fewer breakdowns; and result in lower operating costs and a higher quality of equipment reliability. Maintenance activity carried out on an asset in order to ensure that the asset continues to perform its intended functions, or to repair the equipment.

MAINTENANCE STRATEGIES

A maintenance strategy or option means a scheme for maintenance, i.e. an elaborate and systematic plan of maintenance action. Following are the maintenance strategies that are commonly applied in JTR Operation and Maintenance :

- Plan Preventive Maintenance or Scheduled Maintenance
- Predictive or Condition Based Maintenance
- Breakdown Maintenance or Operate to Failure or Unplanned Maintenance

TYPES OF MAINTENANCE

In general, maintenance can be classified into the following categories :

- a) **Routine** - ongoing maintenance activities such as servicing HVAC equipments, cleaning, waste collection, landscaping and ground works which are required because of continuing use of the facilities
- b) **Preventive** - periodic inspection, lubrication and adjustment of mechanical or other equipment to ensure continuing working condition
- c) **Condition Appraisal** - major/minor projects such as equipment upgrading or replacement, redesign, or complete reporting which are performed once every few years
- d) **Emergency** - unexpected breakdowns of assets or equipment. These are unpredictable or reactive type of maintenance and are more difficult to schedule than the above three categories

ELEMENTS OF EFFECTIVE MAINTENANCE MANAGEMENT

1. Maintenance Policy
2. Control of spareparts/materials
3. Preventive Maintenance
4. Condition Monitoring
5. Work Order
6. Job planning/schedule
7. Priority and backlog control
8. Data recording system (CMMS)
9. Performance measurement measures (KPI)



12.1.2 CONSULTANCY of facilities MANAGEMENT BASED ON ISO 41001

CONSULTANCY

FACILITIES MANAGEMENT SYSTEM CONSULTATION (ISO 41001)

- ★ Gap Analysis
- ★ Alignment Report
- ★ Mentoring Session
- ★ Training & Education
- ★ Brainstorming Session
- ★ Certification Body Audit Support

ISO 41001:2018 Facility Management (FM)

About ISO 41001 Facility Management (FM)

ISO 41001 establishes a benchmark for developing effective, strategic and operational facility management (fM) systems and practices. The standard applies to both fM within an organisation and external providers of fM services. Thus, the certification assists organisations seeking to outsource fM services. fM service providers that conform with ISO 41001 assures organisations that their approach and processes are verified and recognised



Benefits of ISO 41001 Facility Management (FM)

Improve workforce productivity, safety and health.
Improve communication of requirements and methodologies between public and private sector organisations. Improve efficiency and effectiveness.
Reduce cost by optimising the system. Improve consistency of service.





12.1.2 CONSULTANCY OF FACILITIES MANAGEMENT BASED ON ISO 41001

CONSULTANCY



The publication of the facilities management family of standard began in 2017. The series now comprises

- ISO 41001:2018 facility Management. Management System. Requirements with Guidance for use
- ISO 41011:2017 facility Management. Vocabulary
- ISO 41012:2017 facility Management Guidance on Strategic Sourcing and the Development of Agreements
- ISO/TR 41013:2017 facility Management, Scope, Key Concept and Benefits.
- ISO 41014:2020 facility Management Development of a facility Management Strategy
- ISO/CD 41015 facility Management Influencing Organizational Behaviours for Improved facility Outcomes (under development)
- ISO 41018:2022 facility Management-Development of a facility Management Policy

ISO 41001:2018 replaced the earlier European Standard (BS EN 15221).



...What actually is...“Facility management“...

Facility Management definitions

- „Facilities Management is an enabler of sustainable enterprise performance through the whole life management of productive workplaces and effective business support services.“
(South African Facilities Management Association)
- „Integration of processes within an organisation to maintain and develop the agreed services which support and improve the effectiveness of its primary activities.“
(EN 15221-1)
- „Facilities Management is a process by which an organisation delivers and sustains agreed support levels within a quality environment to provide full values in use to meet strategic objectives.“
(Orathclyde Centre for Facilities Management)
- „Facilities Management (FM) involves the total management of all services that support the core business of an organisation. It deals with those areas that the managers of the organisation consider to support their fundamental activities. FM focuses on the interaction between the core business, the support functions, and the facilities throughout all sections of industry, commerce, and services.“
(RICS Royal Institution of Chartered Surveyors)



...What actually is...“Facility management“...

Facility Management definitions

- „Facility management is the practice of coordinating the physical workplace with the people and the work of the organization. It integrates the principles of business administration, architecture, and the behavioral and engineering sciences.“
(IFMA 1983)
- „Facility management is a profession that encompasses multiple disciplines to ensure functionality of the built environment by integrating people, place, process and technology.“
(IFMA 1983)
- „Facilities management involves the management, operation and maintenance of buildings, precincts and community infrastructure.“
(FMA Australia)
- „Facilities management involves the management, operation and maintenance of buildings, precincts and community infrastructure.“
(BIFM British Institute of Facilities Management)





12.1.3 CONSULTANCY OF ASSET MANAGEMENT BASED ON ISO SS001

CONSULTANCY

ASSET MANAGEMENT SYSTEM CONSULTATION (ISO 55001)

- ★ Gap Analysis
- ★ Mentoring Session
- ★ Brainstorming Session
- ★ Alignment Report
- ★ Training & Education
- ★ Certification Body Audit Support



About ISO 55001 Asset Management

The ISO SS001 Asset Management is an international standard for establishing, implementing, maintaining and improving an organisation's asset management system. This management system standard aims to help organisations where the management of physical assets is central to their business. Not only that, it is equally applicable to operations managing intangible assets.

Businesses should adopt the standard to improve performance, results and optimises asset control. Consistent asset management demonstrates the company's good judgement and satisfies the needs and expectations of internal and external parties. The standard applies to organisations of any size or sector.

Benefits of ISO 55001 Asset Management

- Improve organisational efficiency and effectiveness in managing risks associated with ownership of assets.
- Save cost through optimisation of asset life.
- Improve health, safety, and environmental performance.
- Improve health and safety in the industrial sector.
- Demonstrates systematic supply chain security management.
- Develop business cooperation along the supply chain.
- Demonstrate a benchmark of good practice in asset management across industrial sectors.





12.1.3 CONSULTANCY OF ASSET MANAGEMENT BASED ON ISO SS001

WHAT ARE WE OFFERING

- Organize, consult and operate your asset and facilities management more efficiently
- Developing an appropriate balance between the costs, the risks and the required performance of the physical assets.
- Provides an integrated approach to asset management development through education & training; requirements gap analysis, mentoring, experience and real knowledge transfer.

OUR SCOPE

- Asset Management Consultation
- Gap Analysis & Brainstorming
- Mentoring & Training
- Reliability Centered Maintenance
- Full report on asset condition appraisal

WHAT IS ASSET MANAGEMENT ?

AS/ISO 55000

An asset is an item, thing or entity that has potential or actual value to an organisation.

ASSET MANAGEMENT COUNCIL (AMC)

The life cycle management of physical assets to achieve the stated outputs of the enterprise

ISO 55000 CONSISTS OF :

ISO 55000

An overview of the principles, concepts and terminology relating to asset management.

ISO 55001

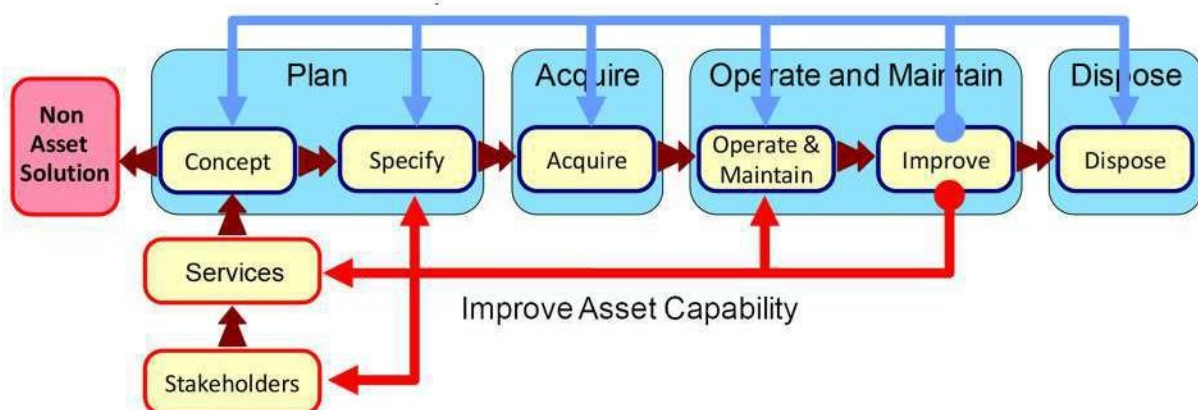
Specifies the requirements for establishing, implementing, maintaining and improving an asset management system.

ISO 55002

Provides guidance, explanatory on the application of ISO 55001.

OUR REFERENCES

- ISO 55001: 2014 - Asset Management Systems- Requirements
- ISO 31000 : 2009 - Risk Management - Principles and Guidelines
- Asset Management Council (AMC)
- The Institute of Asset Management (IAM)
- International Facility Management Association (IFMA)
- British Institute of Facilities Management (BIFM)



ASSET/FACILITY LIFE CYCLE PROCESS

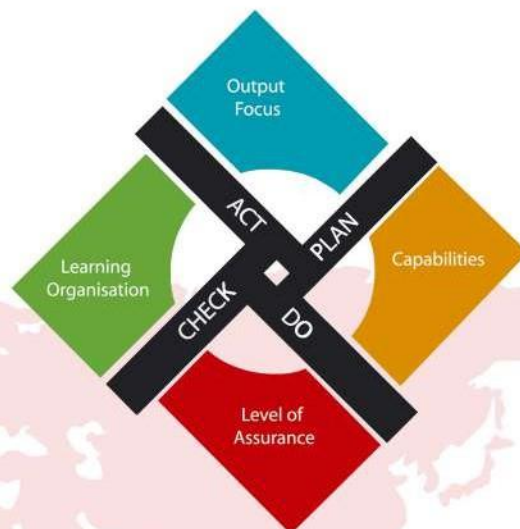


12.1.3 CONSULTANCY OF ASSET MANAGEMENT BASED ON ISO SS001

ASSET, FACILITY & MAINTENANCE MANAGEMENT LEVEL

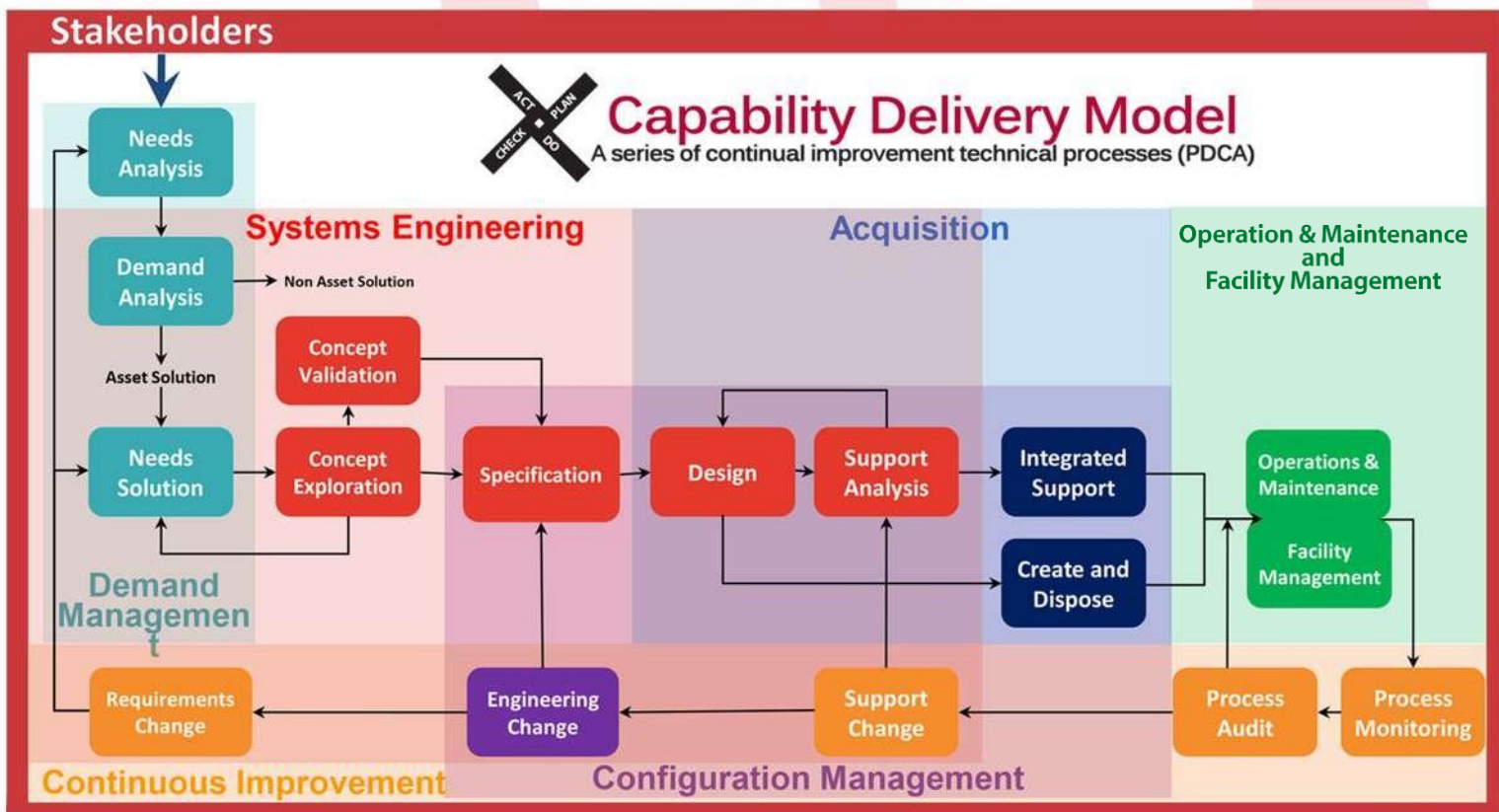


ASSET MANAGEMENT CONCEPT MODEL



Four principles - Plan, Do, Check, Act (PDCA) process.

CAPABILITY DELIVERY MODEL



TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Faber Mediserve	Maintenance of centralized air conditioning system in : i. Queen Elizabeth Hospital (QEH) ii. Sipitang Hospital iii. Labuan Hospital Scope of works : i. Chillers ii. cooling towers iii. AHU's iv. FCU's, v. Coolant circulation pumps vi. Piping vii. Piping fittings viii. Ducting ix. Filters
2.	Majlis Perbandaran Subang Jaya	Proposal for Upgrading & Maintenance of Air Conditioning Centralize System at the "Majlis Perbandaran Subang Jaya" Headquarters for "Tetuan Majlis Perbandaran Subang Jaya".
3.	Hospital Kuala Lumpur	PPM works for air conditioning system at Hospital Kuala Lumpur.
4.	Faber Mediserve Radicare IMR	Package ML3 - Provision of M&E Equipment and Lift Maintenance Services in Sabah Region (Air Conditioning System)
5.	Radicare HKL	PPM for Air-conditioning system at Zone B HKL (824 unit asset)
6.	Radicare HKL	PPM for Air-conditioning System at Zone A (824 unit asset)
7.	Majlis Perbandaran Subang Jaya	Air Conditioning System Maintenance for 2 years at "Majlis Perbandaran Subang Jaya" Main Office

TRACK RECORDS

No.	Clients	Projects / Work Description
8.	Majlis Perbandaran Subang Jaya	Centralize Air Conditioning Maintenance Contract for One Year (2006-2007) at MPSJ Headquarters.
9.	Majlis Perbandaran Subang Jaya	Yearly maintenance Work for Split Unit Air Conditioning, Firefighting and Electrical System for MPSJ building at USJ, (2008)
10.	Majlis Perbandaran Subang Jaya	Maintenance Work for split Unit Air Conditioning and Electrical System for MPSJ Headquarters (2008)
11.	Majlis Perbandaran Subang Jaya	Yearly Maintenance Work for Split Unit Air Conditioning, Firefighting and Electrical System for 3C Building, Sunway Town, (2007 – 2008)
12.	Radicare Kuantan	Comprehensive Maintenance of Air Conditioning System and Freezer at Hospital Tengku Ampuan Afzan, Kuantan.
13.	Radicare Temerloh	Comprehensive Maintenance of Air Conditioning System and Freezer at Hospital Sultan Haji Ahmad Shah (HOSHAS), Temerloh.
14.	Faber Mediserve, Sabah	Air Conditioning Maintenance at Queen Elizabeth Hospital, Sabah.
15.	Radicare, Serdang	Non-Comprehensive Maintenance of Air Conditioning System and Freezer at Serdang Hospital
16.	Radicare, Temerloh	Comprehensive Maintenance of Air Conditioning System and Freezer at Hospital Sultan Haji Ahmad Shah Temerloh.
17.	Redicare, Kuantan	Comprehensive Maintenance of Air Conditioning System and Freezer at Hospital Tengku Ampuan Afzan, Kuantan

TRACK RECORDS

No.	Clients	Projects / Work Description
18.	Faber Mediserve	Package ML3 - Provision of M&E Equipment and Lift Maintenance Services in Sabah Region (Hot Water Boiler)
19.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Hospital: i. Kudat ii. Kota Marudu iii. Kota Belud iv. Tuaran v. Queen Elizabeth vi. Bukit Padang vii. Papar Scope & System Under Supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment vi. Medical Gas vii. PABX viii. Boiler
20.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support services (Package 1G) at Hospital: i. Ranau ii. Tambunan iii. Keningau iv. Tenom v. Beaufort vi. Sipitang vii. Labuan Scope & System Under Supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment vi. Medical Gas vii. PABX viii. Boiler

TRACK RECORDS

No.	Clients	Projects / Work Description
21.	Kementerian Kesihatan Malaysia	Penyelenggaraan Sistem Pencegah Kebakaran (Fire Alarm System) Hospital Building & Facilities Maintenance Untuk Hospital Support Services (Package 1H) di Hospital : i. Ranau ii. Tambunan iii. Keningau iv. Tenom, v. Beaufort vi. Sipitang vii. Labuan
22.	Faber Mediserve	Scope & system under supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment vi. Medical Gas vii. PABX viii. Boiler
23.	Faber Mediserve	Hospital Support Services (Package ML3) Maintenance of M&E Equipment and Lift in Sabah Region : i. Queen Elizabeth ii. Tawau iii. Lahad Datu iv. Labuan v. Sipitang vi. Beaufort
24.	Hospital Kuala Lumpur	Maintenance of Electrical equipment at Ward NW 17. Maintenance of Electrical Equipment at Ward NW URO 1B
25.	Hospital Besar Kuala Lumpur	Maintenance of Lights in the Hospital Area
26.	Majlis Perbandaran Subang Jaya	Maintenance of Street Lighting at Zon Kinrara B

TRACK RECORDS

No.	Clients	Projects / Work Description
27.	Majlis Perbandaran Subang Jaya	Maintenance of Street Lighting at Zon Subang Jaya B
28.	Majlis Perbandaran Subang Jaya	Yearly Maintenance for Street Lights, Garden Lamp and Decorative Lamp for Whole One Year (2009) at "Kawasan Zon Subang Jaya B, Selangor"
29.	Majlis Perbandaran Subang Jaya	Yearly Maintenance for Street Lights, Garden Lamp and Decorative Lamp for Whole One Year (2009) at "Kawasan Zon Subang Jaya A, Selangor"
30.	Dewan Bandaraya Kuala Lumpur	Kerja-Kerja Pemasangan dan Penyelenggaraan Lampu-Lampu Jalan dan Hiasan di Wilayah Persekutuan Kuala Lumpur bagi tahun 2009 - 2011.
31.	Majlis Perbandaran Subang Jaya	Maintenance of Traffic Light for Whole Area of Majlis Perbandaran Subang Jaya.
32.	Majlis Perbandaran Subang Jaya	Maintenance of Traffic Light for Whole Area of Majlis Perbandaran Subang Jaya.
33.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Hospital : i. Kudat ii. Kota Marudu iii. Kota Belud iv. Tuaran v. Queen Elizabeth vi. Bukit Padang vii. Papar Scope & system under supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment

TRACK RECORDS

No.	Clients	Projects / Work Description
		vi. Medical Gas vii. PABX viii. Boiler
34.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Hospital : i. Ranau ii. Tambunan iii. Keningau iv. Tenom v. Beaufort vi. Sipitang vii. Labuan Scope & System Under Supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment vi. Medical Gas vii. PABX viii. Boiler
35.	Jabatan Kesihatan Negeri Selangor	Perkhidmatan Penyelenggaraan Peralatan Perubatan di Klinik-klinik Kesihatan Zon 2 bagi Tahun 2007 - 2008
36.	Pejabat Kesihatan Daerah Kubang Pasu	Perkhidmatan Penyelenggaraan Peralatan Perubatan di Klinik Kesihatan, Klinik Pesakit Luar dan Klinik Desa, Pejabat Kesihatan Daerah Kubang Pasu, Jitra, Kedah
37.	Pejabat Setiausaha Kerajaan Negeri	Perkhidmatan Mengurus, Mengendali dan Menyelenggara Bangunan Dewan Jubli Perak, Sultan Abdul Aziz, Perak.
38.	JKR Putrajaya, Selangor	Perkhidmatan Pengurusan dan Penyelenggaraan Kuarters Kerajaan Persekutuan di Presint 10, Putrajaya.

TRACK RECORDS

No.	Clients	Projects / Work Description
39.	Proton, Tanjung Malim	Contract for Comprehensive Maintenance of Air Conditioning at Proton, Tanjung Malim Plant.
40.	Hospital Universiti Sains Malaysia, Kelantan	Perkhidmatan, Penyelenggaraan dan Servis Bulanan Bagi System Pendingin Udara dan Building Automation System untuk Kompleks Dewan Bedah Utama, Dewan Bedah Jabatan Keemasan dan Dewan Bedah PPSG di Hospital USM, Kampus Kesihatan, Kubang Kerian Kelantan
41.	Universiti Utara Malaysia (UUM)	Service & Maintenance Air Conditioning Package C at Universiti Utara Malaysia, Sintok.
42.	Pos Malaysia	Integrated Facility Management & Maintenance Services at Pos Malaysia Premises in Selangor (Zone 1 & 4)
43.	Pos Malaysia	Integrated Facility Management & Maintenance Services at Pos Malaysia Premises in Kuala Lumpur (Zone 1 & 2)
44.	Proton	Comprehensive Maintenance of Air Conditioning System for Main Plant, Casting Plant & Tanjung Malim Plant
45.	Iskandar Education Enterprise Sdn Bhd	Mechanical, Electrical, and Plumbing Service, Provided For Educity, Iskandar Puteri, Johor Darul Takzim. Scope Of Works i. ACMV Maintenance. ii. Sanitary, Cold, & Hot Water Plumbing. iii. CMMS iv. Electrical Services v. Civil Works
46.	Edgenta Energy Project Sdn Bhd	Package AC01 (Region Perak) : Provision Of Comprehensive Maintenance Services For Air Conditioning, Mechanical Ventilation (ACMV) System at Northern Region Hospital Support Services Scope Of Works i. ACMV Maintenance.

TRACK RECORDS

No.	Clients	Projects / Work Description
47.	Kementerian Kesihatan Malaysia	Perkhidmatan Sokongan Klinik (PSK) Kementerian Kesihatan Malaysia di Negeri Johor. Scope Of Works :- i. Civil Works ii. Mechanical Systems iii. Cleansing iv. Electrical Systems v. Pest Control vi. Ground Maintenance



12.2 ENERGY MANAGEMENT- ENERGY EFFICIENCY SYSTEM

12.2.1 CONSULTANCY Of ENERGY MANAGEMENT
BASED ON ISO S0001

12.2.2 ENERGY PERFORMANCE CONTRACTING



12.2 ENERGY MANAGEMENT - ENERGY EFFICIENCY SYSTEM

WHAT WE ARE OFFER?

- Provides an integrated approach to energy management systems development through consultation, education & training based on experience and knowledge.
- Energy savings and/or provision of the same level of energy service at no cost (low hanging fruits), medium cost & investment grade.
- Implementing energy-efficiency proposals & projects.
- Offer energy services to final energy users, including the supply and installation of energy-efficient equipment and/or equipment retrofitting, maintenance and operation, facility management.

WHY ENERGY EFFICIENCY ?

As global energy demand continues to grow, actions to increase energy efficiency will be essential. The technical opportunities are potential savings real, but consumers and utilities have so far been slow to invest in the most cost-effective, energy-efficient technologies available.

The energy efficiency of buildings, HVAC and electric equipment, and appliances in use falls far short of what is technically attainable. HVAC, lighting and hot water & steam system utility energy efficiency techniques have great potential to narrow this gap and achieve significant energy savings. Some of the recent trends in energy efficiency technologies that have been successful and also used widely worldwide are:

1. Energy efficiency oil free chiller with Magnetic Levitation Shaft
2. Energy efficient compressors
3. Energy efficient motors and pumps
4. Soft starters with energy saver
5. Variable /frequency/speed drives
6. Energy efficient transformers
7. Occupancy sensors & Energy efficient lighting controls
8. Energy efficient by using Building Energy Management System



OUR SCOPE

1. Site survey, preliminary, evaluation energy analysis and audits,
2. Energy management,
3. Identification of possible energy saving and efficiency improving actions
4. Technical & financial (ROI) presentation for client decision;
5. Comprehensive engineering project design, specification and implementation,
6. Operation & maintenance and facility management,
7. Energy and/or equipment supply,
8. Measurement & verification, monitoring and evaluation of the savings results,
9. Provision of service & product (HVAC, BMS, lighting, etc.)

ENERGY EFFICIENCY

- HVAC / R System
- Electric Motor
- Compressed Air System
- Lighting System
- Building Equipment
- Boiler
- Energy Efficient Equipment
- Building Envelope



12.2 ENERGY MANAGEMENT - ENERGY EFFICIENCY SYSTEM

ENERGY MANAGEMENT SYSTEM

ENERGY MANAGEMENT GOLD STANDARD



BENEFITS OF IMPLEMENTING EMGS

1. Develop the systematic energy cost management for energy cost saving
2. Develop energy target and plan
3. Increase knowledge in energy management
4. Increase awareness for energy conservation
5. Reduce operation and maintenance cost

ENERGY MANAGEMENT GOLD STANDARD



ISO 50001 - ENERGY MANAGEMENT SYSTEMS

BENEFITS OF IMPLEMENTING ISO 50001

1. Assist organization in making better use of their existing energy - consuming assets.
2. Offer guidance in benchmarking, measuring, documenting, and reporting energy intensity improvements and their projected reductions in greenhouse gas emissions.
3. Create transparency and facilitate communication in the management.
4. Promote energy management best practices and reinforce good energy management behaviors.
5. Assist facilities in evaluating and prioritizing the implementation of new energy-efficient technologies.
6. Provide a framework for promoting energy efficiency throughout the supply chain.
7. Facilitate energy management improvements for greenhouse gas emission reduction projects.

STANDARDS

- ISO 50001
- ISO 55001
- BS 7750
- ISO 14001
- EN 16001
- MS 1525

OUR REFERENCES

- KeTTHA
- Green Tech Malaysia
- AEMAS
- Suruhanjaya Tenaga
- Asean Centre for Energy
- AEE

ISO 50001

Energy Management System



BUILDING ON FAMILY LEGACY OF

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.2.1 CONSULTANCY OF ENERGY MANAGEMENT BASED ON ISO 50001

CONSULTANCY

ENERGY MANAGEMENT SYSTEM CONSULTATION (ISO 50001)

- ★ Prelim Energy Audit
- ★ Energy Management System (ISO 50001)
- ★ Detail Energy Audit
- ★ ASEAN Energy Management Accreditation Scheme (AEMAS)

Developing an Energy Management System

ISO 50001 is based on the management system model of continual improvement also used for other well-known standards such as ISO 9001 or ISO 14001. This makes it easier for organizations to integrate energy management into their overall efforts to improve quality and environmental management.

ISO 50001 provides a framework of requirements for organizations to:

- ★ Develop a policy for more efficient use of energy
- ★ Fix targets and objectives to meet the policy
- ★ Use data to better understand and make decisions about energy use
- ★ Measure the results
- ★ Review how well the policy works, and
- ★ Continually improve energy management.



Certification to ISO 50001

Like other ISO management system standards, certification to ISO 50001 is possible but not obligatory. Some organizations decide to implement the standard solely for the benefits it provides. Others decide to get certified to it, to show external parties they have implemented an energy management system. ISO does not perform certification.





12.2.2 ENERGY PERFORMANCE CONTRACTING

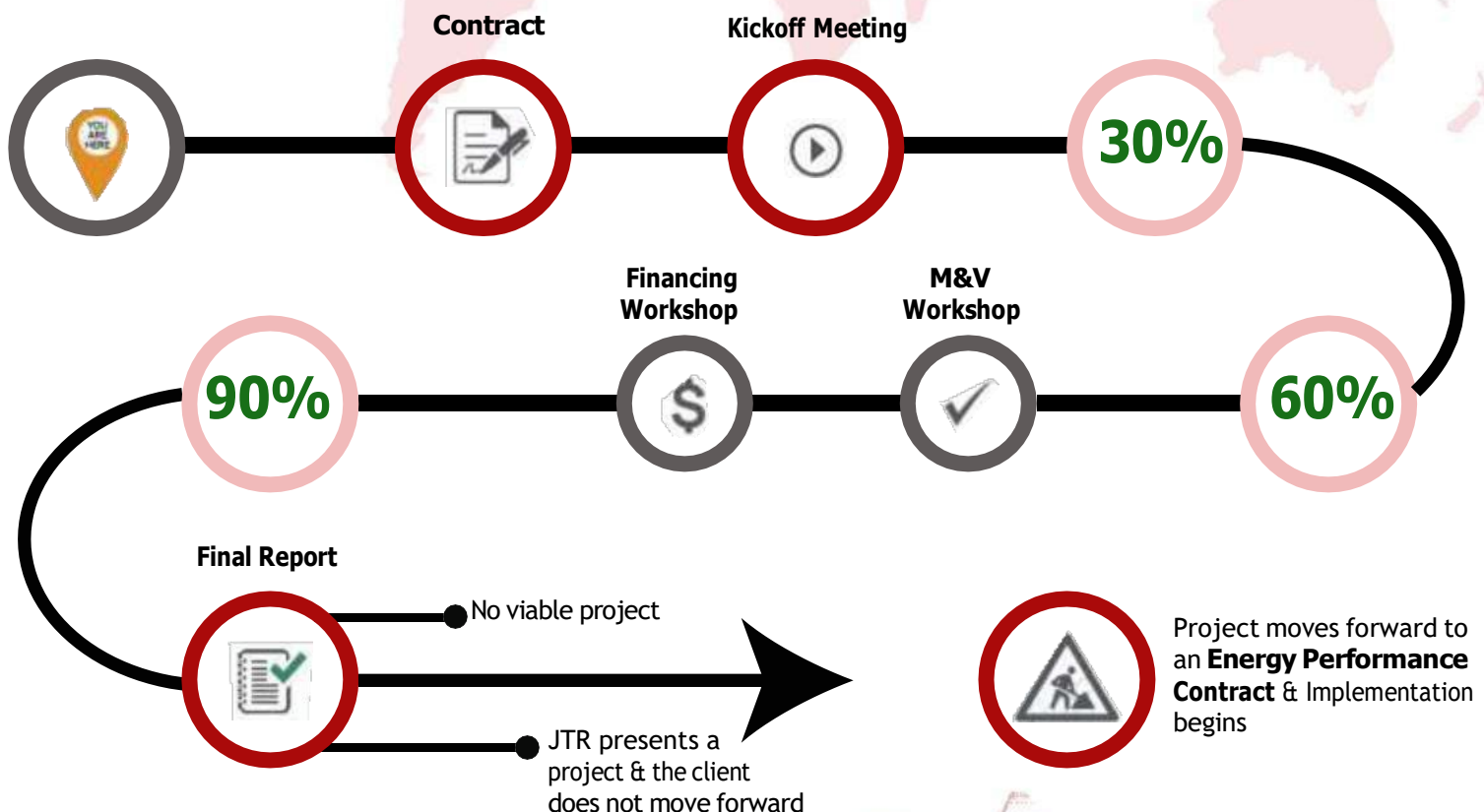
ENERGY PERFORMANCE CONTRACTING

ENERGY PERFORMANCE CONTRACTING AND SYSTEM DESIGN & INSTALLATION

- ★ Chiller Plant Room Optimisation
- ★ Air Side HVAC Optimisation Control
- ★ BMS Optimisation
- ★ Lighting and Lighting Control System
- ★ Compress Air System Optimisation
- ★ Hot Water & Steam System Optimisation

Our Approach to Energy Performance Contracting (EPC)

We don't believe in limited scope services-we take pride in creating a comprehensive energy strategy that's entirely unique to your needs. Still, we'll give you a rundown of EPC contracts and how we utilize to maximize efficiency.....



Preliminary Energy Audit Base on ASEAN Energy Management Scheme (AEMAS) for 1S Hospitals under Hospital Support Services (HSS), □Radicare (M) Sdn Bhd and Ministry of Health

PAHANG:

1. HOSPITAL TENGKU AMPUAN AfZAN, KUANTAN
2. HOSPITAL MUADZAM SHAH
3. HOSPITAL PEKAN
4. HOSPITAL RAUB
5. HOSPITAL KUALA LIPIS
6. HOSPITAL JENGKA
7. HOSPITAL JERANTUT
8. HOSPITAL SULTANAH HJH. KALSOM, CAMERON HIGHLAND



SELANGOR & WILAYAH PERSEKUTUAN

1. HOSPITAL KAJANG
2. KOLEJ SAINS KESIHATAN BERSEKUTU, SG. BULOH
3. INSTITUT PENYELIDIKAN PERUBATAN, KUALA LUMPUR
4. PUSAT KAWALAN KUSTA NEGARA
5. PUSAT DARAH NEGARA
6. INSTITUT KESIHATAN UMUM, KUALA LUMPUR
7. INSTITUT PENYELIDIKAN SISTEM KESIHATAN, KUALA LUMPUR



Radicare
Radicare (M) Sdn Bhd (286063-T)



TRACK RECORDS

Execution Of Energy Efficiency Initiatives In 9 States - Owned Buildings In Melaka Of Which The first Phase (1st Phase) Shall Be following Buildings Locate At Putra Specialist Hospital Melaka



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.3 ENERGY EFFICIENT HVAC & ACMV SYSTEM



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

We Provide customers HVAC Equipment with the best selection plan, reasonable system configuration, and professional technical consulting and support. Our factory fully implementing modern management, has a professional technical development team and high-quality production, quality, environmental management team, The management team are from the world top 500 enterprises. We also have advanced production equipments and testing equipments, so we basically achieve the management standardization, modernization of production, professional of product testing and comprehensive quality and environmental management system.

We Provide customers HVAC Equipment with the best selection plan, reasonable system configuration, and professional technical consulting and support. Our factory fully implementing modern management, has a professional technical development team and high-quality production, quality, environmental management team, The management team are from the world top 500 enterprises. We also have advanced production equipments and testing equipments, so we basically achieve the management standardization, modernization of production, professional of product testing and comprehensive quality and environmental management system.

The integrated technology enables to lower the start-up current, and automatically adjust the quantity of refrigeration through the frequency conversion technology to adapt present requirement of refrigeration. BSE's products has reached the highest energy efficiency, and, in particular, the partial load efficiency of the machine's actual operating point has reached an advanced level in the whole industry.





12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

QUESTCHILLER™

BSE QUESTCHILLER™ family chillers are the oil-free, variable frequency and centrifugal water-cooled chillers, including three series of Q1, Q2, and Q3 with both a vertical structure and a horizontal structure and a cooling capacity covering 300kW (85RT) to 4925kW (1400RT).



QUESTCHILLER™ family chillers are the combinations of the most advanced technologies in the world, which allows a new height of the chiller's efficiency. The products are the new generations of the chillers with a distinguished operational efficiency and reliability without obvious reduction in performance. That could be widely used in the newly-built and reconstructed public architectures, such as the guesthouses, the hotels, the schools, the shopping malls and the office buildings etc, or also be used in the industrial cooling and industrial environment control, such as the factory buildings and industrial laboratories.

QUESTCHILLER™ family chillers have the following characteristics:

- Oil-Free VFD centrifugal compressor
- Super high IPLV and COP
- R134a refrigerants, no harm to the ozone
- Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity
- Low noise and small vibration
- PAC programmable auto-controller
- Small size and light weight
- Tiny start-up current with no strike to the electronic grids
- Intelligent alarming and failures handling



12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

I-CHILLER™

BSE I-CHILLER™ Family Oil-Free VFD Centrifugal Modular Unit Chiller/Heat are your smart choices now and in the future. The chiller is in the design of 250kw(71RT)-4200kw(1200RT) and uniform measure of 0.89m(W)x1.2m(L)x1.8m(H).

I-CHILLER™ Modular Units is oil-free, frequency conversion centrifugal chillers/heat pumps in modular units that are applied with all digital oil-free centrifugal compressors. Combined with the high-efficient plate exchanger and the powerful PAC controller, it allows a 40% improvement of the annual operational efficiency than that of the traditional chillers. The single unit only occupies a footprint of 1m² with a tiny height of 1.8m and a weight of 1 ton. They are currently the chillers that are the smallest in volume, the lightest in weight, and the least needs in refrigerant charge in the world when outputting the same cold energy.



BSE I-CHILLER™ Family Oil-Free Variable Centrifugal Modular Unit Chillers/Heat Pumps have the following characteristics:

- i) Small size and light weight
- ii) Low noise and small vibration
- iii) Oil-Free VFD centrifugal compressor
- iv) Intelligent alarming and failures handing
- v) Tiny start-up current with no strike to the electronic grids
- vi) R134a refrigerants, no harm to the ozone
- vii) Super high IPLV and COP
- viii) Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity





12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

CLOUDCHILLER™

BSE CLOUD-CHILLER™ family chillers are the oil-free, frequency conversion air cooled chillers, which could be used independently when no cooling water is available, including two types for conventional and free cooling, optional hydraulic module and a cooling capacity covering 200kW (57RT) to 1800kW (512RT).

The integrated part load value(IPLV) of BSE air cooled chillers is 50% more than the traditional ones. This is a great breakthrough for air cooled chillers as it could sharply decrease the operational cost and reduce the carbon emissions. The application of the chillers vibration free, and compared with a screw chiller which provides the same cooling energy, their operational noise is only 60dB.

CLOUDCHILLER™ family chillers have the following characteristics :

- i) Oil-Free VFD centrifugal compressor
- ii) Super high IPLV and COP
- iii) R134a refrigerants, no harm to the ozone
- iv) Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity
- v) Low noise and small vibration
- vi) PAC programmable auto-controller
- vii) Small size and light weight
- viii) Tiny start-up current with no strike to the electronic grids
- ix) Intelligent alarming and failures handling

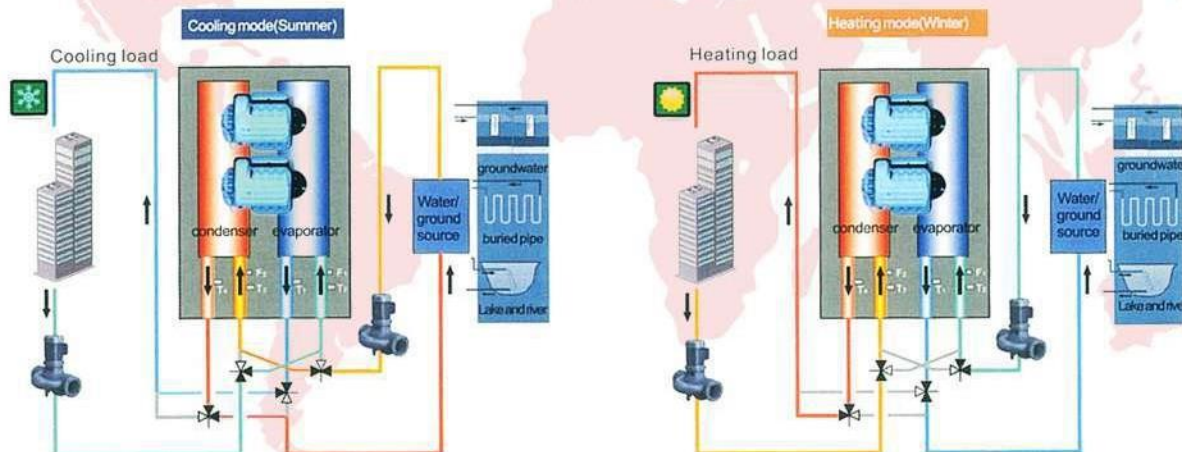




12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

FIRECHILLER™

Heat pump is a new approach for heating source. With more attentions are paid from all sectors of community to the measures taken in energy-saving, emission-reduction and building energy conservation. The heat pump has been listed as one of the main measures for building energy conservation and the development of renewable energies, which will be greatly promoted for the heating in northern part of China. The heat pump works by power drive, which is to take heat from low-temperature heat sources, such as the surface water, the sea water, the groundwater, the municipal wastewater and also the underground soils, etc., the heating energy of which is taken by the heat pump in the winter and is released back in the summer. Therefore, these sources are able to serve as the cooling sources in the summer for the air-conditioning and then to offer the heat source for the building heating in the winter. The chillers are able to work without the cooling tower system when it is refrigerating to avoid the noise pollution cause by it and the waste of the water resources; and are able to work without the boil water system when it is heating to avoid the discharge of the pollution and achieving a cleaner environment.



According to the statistics, among the buildings with the central air conditioning accounts 55% of the total energy consumption. The energy consumption of the central air-conditioning system is mainly generated in the following three parts : the cooling and heating sources of air conditioning system, the air conditioning unit and terminal equipment, and the transport system of water or air. The cooling and heating source of air conditioning system is the main part of these three parts, which contributes around half energy consumption. In order to reduce the high energy consumption BSE developed the new energy-saving Firechiller™ series oil-free, centrifugal heat pump unit. This unit is applied with the new generation of oil-free, frequency invert centrifugal compressor, direct drive, digital magnetic levitation bearing, permanent magnet motor, etc. When the compressor speed is reduced, the power consumption is reduced significantly; the use of magnetic levitation technology was achieved oil-free operation, which help the maximum degree of reduction of the efficiency of the oil and the attenuation, so that the system is more efficient, while increasing the service life of the unit. The IPLV of Firechiller™ series oil-free centrifugal heat pump unit is more than 9, and the power consumption is reduced by more than 35%. The unit can provide high temperature chilled water in the summer, and it can realize the independant application of temperature and humidity of geothermal heat pump. In addition, the oil-centrifugal heat pump unit with the use of renewable energy sources, such as water source, geothermal source, can make the whole air conditioning system energy efficiency has been further improved, and become a model of energy conservation.

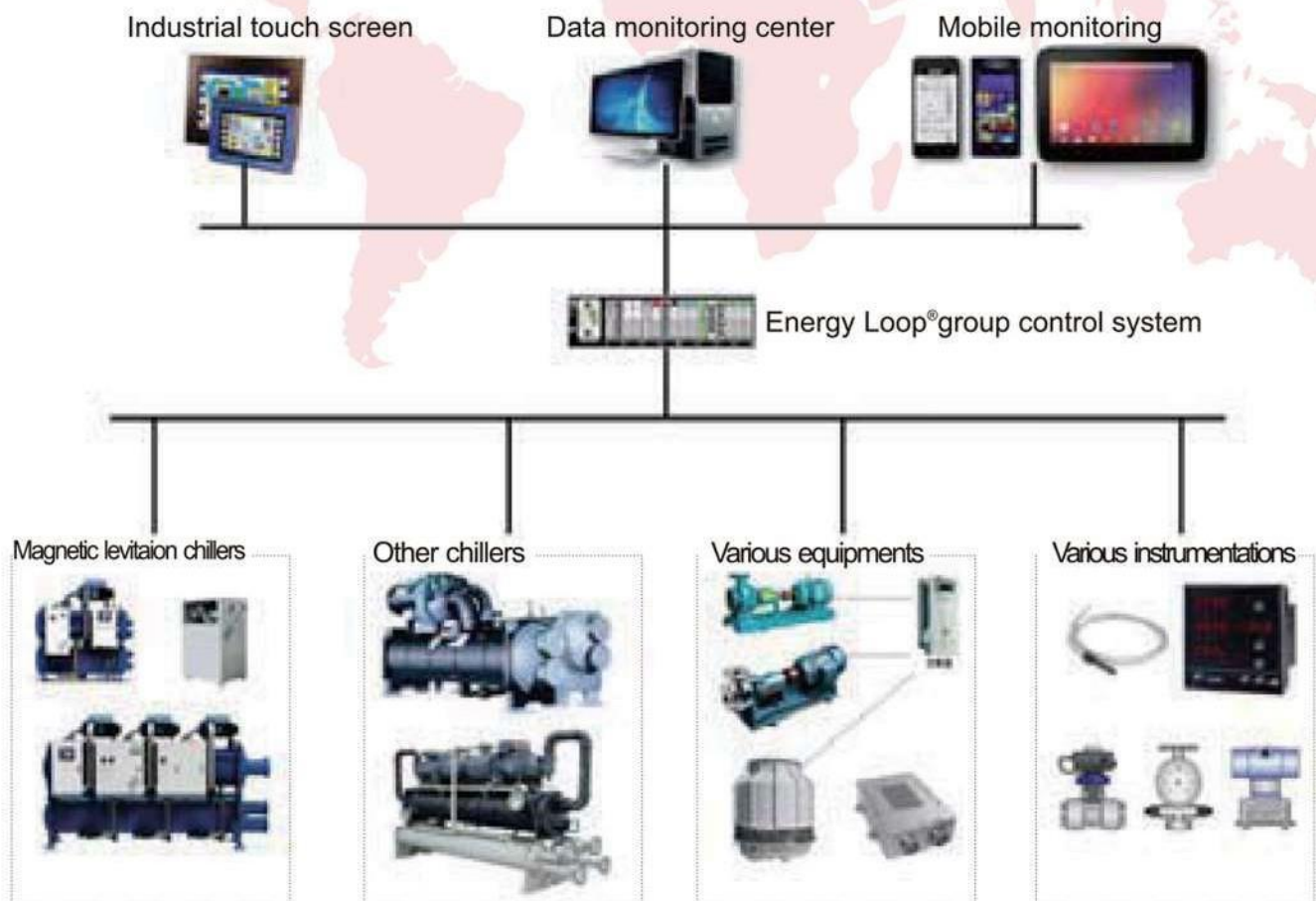


12.3 ENERGY EFFICIENCY HVAC/ACMV SYSTEM

ENERGY LOOP® GROUP CONTROL SYSTEM

Energy Loop® Group Control System is self-developed by BSE on the base of the PAC control units with the strong processing powers. Combined with BSE's technologies and experience accumulated for many years and targeted at the temperature, the flow and the pressure of the chillers, the cooling pumps, the condensor pumps and the cooling towers, Energy Loop® Group Control System provides the automatic control, the energy-saving strategies and the overall solutions to fulfill a flexible central group control system that could communicate with chillers.

The chiller plant configured with Energy Loop® Group Control System is able to promote 80% efficiency that of the original one. This group control system is also able to offer the standard communicative accesses to support Modbus communication protocol. All Testing data are able to be transferred remotely through WIFI/3G network, and then are applied in the remote control. The users are allowed to check the instant data of the group control system on their office computers or mobile phones easily.



TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Hospital Besar Kuala Lumpur	Supply and Install Air Conditioning Units at Jabatan Rehabilitasi Replacement of Air Duct at Unit Microbiology Store Room 4.Maintain and Repair of AHU, FCU and Window Units at Ward
2.	Hospital Besar Kuala Lumpur	Wiring and Installation of Air Conditioner at Pusat Harian Stroke
3.	Hospital Besar Kuala Lumpur	Supply of P3 Pre-Insulated Aluminium Air Duct for Drug Store Replacement of the Existing Damage G1 Duct
4.	Hospital Besar Kuala Lumpur	Repair the AHU Room at 1 st Floor Radiotherapy
5.	Hospital Besar Kuala Lumpur	Repair Ducting Water Leakage at AHU Room Neurology
6.	Hospital Universiti Sains Malaysia (HUSM)	Repair of Air Handling Unit at Operation Theatres
7.	Hospital Besar Kuala Lumpur	Repair Air Conditioner at Operation Theatre 1 & 3
8.	Hospital Besar Kuala Lumpur	Minor Work at AHU & Duct Maternity Building
9.	Radicare Sabak Bernam	Installation of York Reciprocating Air Cooled Chiller
10.	Radicare Hospital Besar Kuala Lumpur	Repair of Air Conditioning System at Mobile OT (Mitsubishi Inverter)

TRACK RECORDS

No.	Clients	Projects / Work Description
11.	Radicare Sabak Bernam	Supply and Install Blower Fan Motor
12.	Faber Mediserve	Install / Supply Water Separator, Thermodynamic Auto Condensate Drain and Filters
13.	Radicare, Kuala Lumpur	Repair Cooling Tower No. 1 and Replace Fan Blade, Hub and Service Gearbox
14.	Radicare Sabak Bernam	Repair Dunham-Bush Chiller
15.	Radicare Sabak Bernam	Supply Workmanship, Transport, Tool and Material to Attend Breakdown Call for Chiller 2 System no.2 c/w Leak Check and Top Up R22 and Test Run
16.	Radicare Hospital Besar Kuala Lumpur	Supply and Install 2 Nos Contactor, Overload Relay. Replace 2 Sets of Compressor Cable & Transducers
17.	Hospital Universiti Sains Malaysia (HUSM)	Upgrade Air Conditioning System at Neuroscience Laboratory, Bangunan Perubatan Nuklear, USM Kubang Kerian, Kelantan
18.	Radicare Hospital Besar Kuala Lumpur	Supply and Install 2 Nos Contactor, Overload Relay. Replace 2 Sets of Compressor Cable & Transducers (Mitsubishi VRV)
19.	Radicare Hospital Besar Kuala Lumpur	Repair Diod, Capacitor, and PCB Card. Replace 10hp Inverter Compressor (Mitsubishi VRV)

TRACK RECORDS

No.	Clients	Projects / Work Description
20.	Hospital Universiti Sains Malaysia (HUSM)	* Repair 1 unit of Kelvinator Scientific Plasma Freezer (s/ n 4461541) c/w replacement of thermostat, expansion valve, filter gas R12 refilling and testing / commissioning * Repair 1 unit Special Freezer (-40c to 80c). Replace 1hp compressor, filter, relay, capacitor, R508 gas, repair PCB board and gas system, vacuum and flushing * Repair 1 unit Forma Scientific Plasma Freezer, change thermostat, expenses valve, filter and refill gas R12 * Repair 1 unit Harris 2 doors chiller, refrigerator, change defrost timer, thermostat and modify system * Repair 1 unit Forma Scientific blood bank refrigeration, change electronic thermostat, control system and wiring
21.	Radicare, IMR	Repair Chiller Refrigerator
22.	Radicare Sabak Bernam	Replace Compressor and 1 Unit Chiller Refrigerator, Refill Gas Servicing, Change Filter and Thermometer
23.	Hospital Universiti Sains Malaysia (HUSM)	Service and Repair Deep Freeze NUAIRE NU6502E Neurology Building
24.	Radicare, IMR	To Repair 3 Units of Deep Freezer - 82°C Complete with Supply and Install of Freezer High Side Compressor, Filter and Refill Gas
25.	Hospital Universiti Sains Malaysia (HUSM)	Supply and Install of HVAC System for GMP Cleanroom
26.	Kementerian Kesihatan Malaysia (KKM)	Supply and Install of 2 Units Chiller and Associated System at Hospital Sibul
27.	Pusat Pembedahan Katarak	Design, Supply, Deliver, Install, Testing and Commissioning Air Conditioning and Mechanical Ventilation System

TRACK RECORDS

No.	Clients	Projects / Work Description
28.	Jabatan Patologi Hospital Miri	Supply and Install of Chiller Cooling Tower, AHU and VRV System
29.	Kementerian Kesihatan Malaysia (KKM)	Supply and Install of Complete Central Air Conditioning System Consist of Replacement of Pump, Chillers, Cooling Towers and AHU's at Hospital Umum Sarawak, Kuching
30.	PROTON	Maintenance of HVAC System for the Period of 3+3 Years at PROTON Tg Malim and PROTON Shah Alam
31.	Universiti Utara Malaysia (UUM)	Maintenance of HVAC System for the Period of 3 Years at Universiti Utara Malaysia, Sintok
32.	Faber Mediserve	Maintenance of HVAC System and Mechanical/Electrical System for Hospital in Sabah Region
33.	Kumpulan Wang Simpanan Guru (KWSG)	Kerja-Kerja Pemasangan Sistem Penyejukan Udara dan Pengalihan Udara Mekanikal (Wisma KWSG)
34.	Danish Energy Efficiency Partners (DEEP)	Magnetic Bearing Oil Free Chiller Replacement at Putra Specialist Hospital Malacca
35.	KPJ Healthcare Berhad	Proposed 7 Storey KPJ Miri Specialist Hospital on Lot 8838, Block 11, Kuala Baram Land District, Off Tudan Kuala Baram Link Road, Bandar Baru Permyjaya, Miri Sarawak
36.	Hati Muda Sdn Bhd	Pembinaan Hospital Swasta (95 katil) yang mengandungi 1 blok Hospital 8 tingkat diatas lot PT 1331 & lot PT 1328, Sungai Bakau Mukim Rawang Selangor Darul Ehsan untuk Selgate Rawang Hospital Sdn Bhd - Air Conditioning & Mechanical Ventilation (ACMV) Package

TRACK RECORDS

No.	Clients	Projects / Work Description
37	Ahmad Zaki Sdn Bhd	Project Mass Rapid Transit Laluan 2: Sg. Buloh-Serdang-Putrajaya (SSP) Package S206: Construction and Completion of Elavated Stations and Other Associated Works at Serdang Raya (South), Seri Kembangan and UPM.



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.4 BUILDING MANAGEMENT & AUTOMATION SYSTEM



**BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN**



12.4 BUILDING MANAGEMENT/ AUTOMATION SYSTEM

An innovation leader in energy management solutions, JTR provides quality building management system (BMS) and services that optimize energy efficiency and comfort in buildings, all the while reducing operating costs. We deliver innovative solutions for greener buildings through our passion for innovation, quality, customer satisfaction, and sustainability.

Building Management System (BMS) provides a complete, integrated solution for HVAC, Lighting, Access Control, CCTV, and Energy Management, achieving over 30% energy and operational cost savings.

EC-Net^{AX}: Web-based Integrated Building Management System



BACnet® and LonWorks® HVAC Controllers: Air Quality and Comfort



EC-Light: Lighting Control for Indoor, Outdoor, and Signage



EC-Net^{AX} Security: Access Control and CCTV



Open-to-Wireless™: Wireless, Battery-less Sensing, Wireless Mesh Networks



Energy Management and Metering



Multi-Site and Campus Solutions



Other Building Systems and Applications: Elevators, Networked Equipment, etc.



Building Management Systems cater to both small and large installations, ranging from 50 to 100,000 analog and digital points

Building Management Systems provide integrated building management technology, and remote management of 1 to 1000 buildings

Your investment is well protected, as the system is fully backward compatible, modular and extensible



12.4 BUILDING MANAGEMENT/ AUTOMATION SYSTEM



A Truly **Sustainable Green Building** Solution

1. Energy harvesting eliminates the need for batteries
2. Reduces cable and wiring materials to preserve building envelope and architectural integrity
3. Provides enhanced comfort and functionality through easy relocation of sensors and switches
4. Contributes to LEED points

MULTIPLE APPLICATIONS

- Wireless, battery-less sensors and switches require no drilling or external wiring, simplifying installation.
- Readily mount on any surface including concrete, brick, glass, or stone.
- Increase occupant comfort and reduce energy consumption by easily placing wireless sensors in optimal locations.
- Control spaces where sensor placement would otherwise be difficult, including atriums and greenhouses.
- Optimizes conditions in large open spaces with localized needs, such as office cubicles.

COST & TIME REDUCTION

- Easy, quick, and low-cost relocation of devices when room configuration or floor plans change.
- Removes expenses for wiring plans, wire and conduit installation, electrician fees, and other associated labor costs, at installation or retrofit of space.
- Easily correct design errors in initial sensor placement.
- Significantly improves a system's quality and reliability since devices are virtually service-free.
- Up to 15% cost savings in new construction projects and 70% in retrofit projects.



12.4 BUILDING MANAGEMENT/ AUTOMATION SYSTEM

Reduce energy cost and manage your BAS

Control and monitoring
Scheduling
Alarming
Identify consumption

Reduce operational cost

Effective knowledge
Predict failures
Manage servicing
Identify costs





12.S CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.5 CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM

WHAT WE ARE OFFER?

- Consultation, design & build the Critical Environment Facility.
- Supply and Install Equipment for Laboratory, Operation Theatre & Cleanroom.
- Testing and Balancing the System.
- Certification of NEBB / ICS.



OVERVIEW

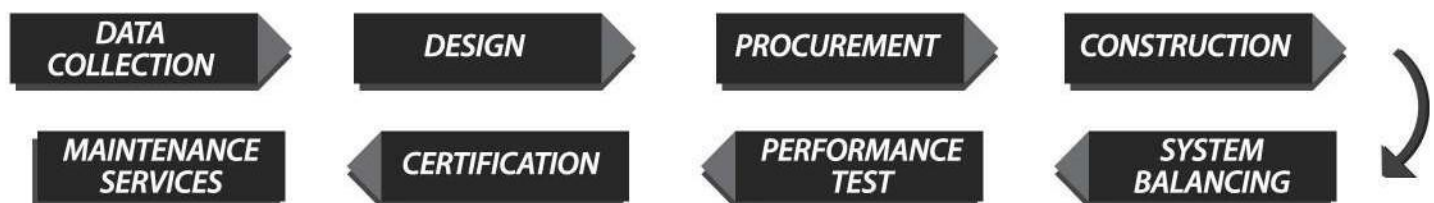
A 'clean room' or a 'clean space' is defined as a room, a suite of rooms or an area within a controlled environment. The concentration of airborne particles in these areas is strictly controlled. Other factors may also be controlled within the limits of this space.

Clean spaces are used in manufacturing, packaging, laboratories and research. They are most often seen in the pharmaceutical, biotechnology, semiconductor, microelectronics and aerospace industries. Hospital theatres have a similar 'clean space', however here there is a need to control particular types of contamination, rather than the quantities of particles present.

We provides comprehensive Design & Built for Operation Theatre, Biosafety Lab, GMP Lab and Cleanroom which includes all the following :

1. Bio Cleanroom including Operation Theatre and Biohazard Rooms
2. Laboratories
3. Negative and Positive Pressure Isolation Rooms
4. Pharmaceutical Cleanrooms

THE DESIGN & BUILD FLOW CHARTS





12.5 CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM

OUR CRITICAL ENVIRONMENT TESTING EQUIPMENTS

- ELECTRONIC BALANCING TOOLS WITH AIR FLOW PRO HOOD
- VELOMETER
- KISTOCK DATA LOGGER
- MINNEAPOLIS DOOR BLOWER
- INFRARED THERMOMETER
- AIR SAMPLING SYSTEM
- MINI INCUBATOR
- PARTICLE COUNTER
- TACHOMETER



CRITICAL ENVIRONMENT
BUILT WILL BE MADE
TO COMPLY TO THE
FOLLOWING STANDARDS

- BS EN ISO 14644-1
- FEDERAL STANDARD 209E
- BS 5295
- EC GMP ANNEX 1
- Limits of microbiological containment in clean areas
- PIC/S GMP for Medical Product

PROFESSIONAL
MEMBERSHIP OF

- ASHRAE
- ASHRAE TC 9.11 Clean Spaces
- ASHRAE TC 9.6 Healthcare
- BIOMEDICAL ENGINEERING
- ASSOCIATION MALAYSIA (BEAM)
- Irish Cleanroom Society (ICS)
- International Society for Pharmaceutical Engineering (ISPE)
- Institute of Environmental Sciences and Technology (IEST)

CRITICAL ENVIRONMENT

COMMON REQUIREMENTS

Particle & Room Cleanliness
Room Pressurization
Airflow Velocity & Volume
Temperature
Humidity

CONTROL PARAMETERS

SPECIAL & UNIQUE REQUIREMENT

Microbial Contamination
Electrostatic Discharge (ESD)
Gaseous Contamination
Room Air Recovery
Particle Fallout
Lighting Level and Uniformity
Sound Level
Conductivity
Electromagnetic Interference (EMI)
Air Change Rate (ACH)

OUR
COLLABORATION

- Tek-Air, Inc (USA)
- Engsysco, Inc





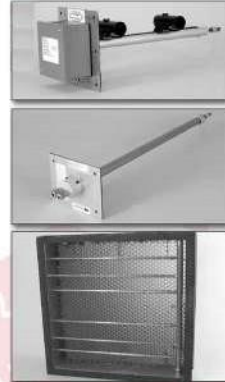
12.5 CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM

FUME HOOD VENTILATION CONTROL SYSTEM



Tek-Air offers the widest variety of fume hood ventilation control for today's demanding laboratory requirements. Applications using face velocity control, measuring airflow through fume hood opening or sash position control are available. Sash position control is standard for vertical, horizontal or combination sash fume hoods. Tek-Air's FVC Fume Hood Ventilation Control Systems all use our patented VorTek™ airflow sensor to guarantee the best in operator safety.

AIRFLOW MEASUREMENT DEVICES



Tek-Air continues the theme of "Good, Better, Best" in our airflow measure options. Static pressure measuring probes, differential traverse probes, and our patented line of digital Vortek™ shedding probes are available in various materials of construction; as fan inlet probes, duct insertion probes or factory installed duct measurement flow stations. Measuring actual airflow is the best means of assuring personnel safety.

SPACE PRESSURE MONITORING SYSTEM



Assures critical space pressure measurement for cleanrooms, isolation rooms, laboratories and hospitals.

- Capable of measuring ultra-low pressures as low as 0.0001" wc.
- Configurable to meet a wide variety of application

requirements.

- Provides digital communication with Building Automation Systems.
- N2 communications capable.

OUTDOOR AIR VOLUME MEASUREMENT SYSTEM



Complete System for Measuring Outdoor Air Intake Volume and Temperature Over a Wide Range of conditions

- Designed to mount in confined space between O.A louver and O.A modulating damper
- Simple installation in a

wide variety of intake configurations.

- Retrofit or new installations.
- Operates over -40 to +120 °F.
- Simplified commissioning with built-in Set-up Wizards.



**Tek Air of USA :
Critical Airflow Solution**

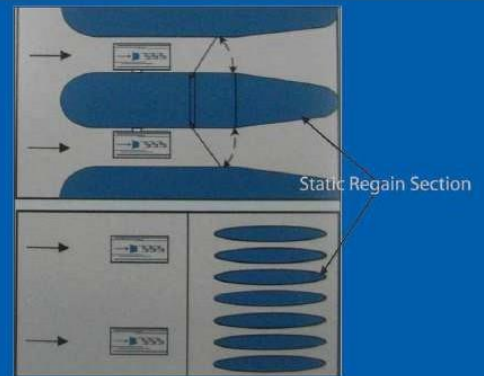


12.5 CLEANROOM - OPERATION THEATER, BIOSAFETY LAB, GMP LAB & CLEANROOM



- True Flow Feedback
- High Accuracy and Turndown
- Linear Response
- Quiet
- No Scheduled Maintenance
- Electric Actuation
- Fast Speed of Response
- No Straight Run Requirements
- Low Pressure Drop

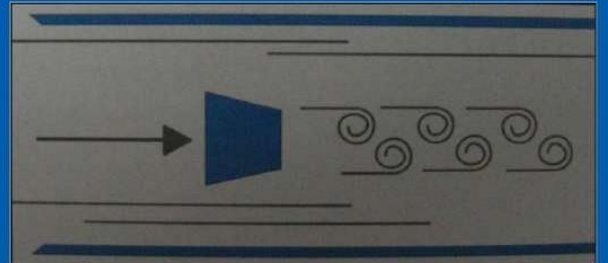
CRITICAL VENTILATION CONTROL VALVES



The AccuValve is designed to handle Critical Ventilation requirements of Accuracy, Speed and Durability. It modulates the air flow in a linear fashion, and the volume of the air flow with VorTek air flow sensors. The combined use of the VorTek sensors, along with a Valve designed for low pressure drop and linear control, make these valves the best available in the market for your critical ventilation requirement in the laboratory, clean room, or animal care facility.

VORTEX METER & VORTEX SHEDDING

A Unique, Patented Approach For All Critical Environment That Yields The Most Reliable Ventilation Airflow Management System



The principle of physics known as vortex shedding is the basis for Tek Air's patented digital approach to airflow measurement. When an obstacle, such as the trapezoidal shedder in a VorTex probe, is placed in the path of the airflow, spiraling eddy currents are created. These vortices, in accordance with the laws of physics, are shed in alternating fashion from one side of the shedder to the other. Tek Air measures the rates at which these vortices are produced, converting alternating pulses into digital signals for the precise measurement of airflow volume.

Performance Benefits of Vortex Airflow Measurement

- * No compensation is required for temperature, density and humidity changes
 - * Linear primary signal
- * True velocity averaging from multiple sensors
- * Accuracy not affected by dust/dirt
- * Doesn't required recalibration
- * Lower cost of ownership
- * Primary signal is directly proportional to velocity

TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Hospital Universiti Sains Malaysia (Kelantan)	Supply & Install Air Conditioning System for Class 100 & 1000 Neuro Science Lab, Medical Nuclear Department, Kampus USM, Kubang Kerian, Kelantan
2.	Hospital Besar Kuala Lumpur	Supply & Install of HEPA filter at Cytotoxic Laboratory to comply to Class 10k room specification design of New CDR & TPN Laboratory in Hospital Kuala Lumpur
3.	Hospital Besar Kuala Lumpur	Supply & Install of Heterogeneous PVC vinyl Flooring Installation at Radiotherapy OT
4.	Hospital Besar Kuala Lumpur	Supply & Install HEPA filter for AHU at OT room (Verification Test) at Hospital Kuala Lumpur.
5.	Hospital Universiti Sains Malaysia (Kelantan)	Supply and Install Air Purifier filter Portable Type at HUSM (Kelantan)
6.	Hospital Universiti Sains Malaysia (Kelantan)	Supply and Install Air Purifier filter at South Ward 2 at HUSM, Kelantan.
7.	Hospital Besar Kuala Lumpur	Supply & Install of HEPA Filter at the Cytotoxic Laboratory to comply with Class 10k room specification at Hospital Kuala Lumpur.
8.	Hospital Besar Kuala Lumpur	Repair Air Conditioner at OT 1 & OT 3 at Hospital Kuala Lumpur.
9.	Hospital Universiti Sains Malaysia (Kelantan)	Renovating Operation Theatre, "Pusat Pengajian Sains Pergigian, Kampus Kesihatan, University Sains Malaysia, Kubang Kerian, Kelantan"

TRACK RECORDS

No.	Clients	Project / Work Description
10.	Hospital Universiti Sains Malaysia (Kelantan)	Renovation work of the Operating Room, PPSG, Universiti Sains Malaysia, Kubang Kerian, Kelantan (Including Medical Gas System).
11.	Universiti Sains Malaysia (Pulau Pinang)	Design, Build, Completing, Maintaining, Testing and Commissioning Biosafety Laboratory Level 2 (BSL) at Level 1, Block A, Science @ USM on the 2164 lot and Territory 13, East District, for Pharmaceutical Research Lab, Pharmaceutical Institute and Nutraceutical Malaysia, Ministry of Science Technology and Innovation. "Universiti Sains Malaysia, Pulau Pinang".
12.	Univerisiti Sains Malaysia (Pulau Pinang)	Proposed Renovation and Upgrading of Block J12 (Second Level) and Block 13 (Ground Level) to be used as Research and Learning Laboratories for the School of Pharmaceutical Sciences, USM, Penang.
13.	Pusat Bedah Katarak Selayang, Selangor	Proposal to Design, Build, Complete, Accredite and Maintain a Cataract Surgery Center (MAIWP).
14.	Institute of Medical Research (IMR), Kuala Lumpur	Work Proposal, Design, Upgrade, Build, Accredite and Maintain a Stem Cell Laboratory at the Institute of Medical Research (IMR), Kuala Lumpur.
15.	KPJ Miri Specialist Hospital, Sarawak	Air Conditioning and Ventilation Services at the KPJ Miri Specialist Hospital, Sarawak.
16..	Poliklinik Ayer Keroh, Melaka	Air Conditioning System Repair, Fungal Eradication & Prevention Work at Poliklinik Komuniti Ayer Keroh, Melaka.
17.	Putra Specialist Hospital, Melaka	Proposed Work, Replacement of Centralized Air Conditioning Chiller System at Putra Specialist Hospital, Melaka.

TRACK RECORDS

No.	Clients	Project / Work Description
18.	Wisma Co-Opbank Pertama, Kuala Lumpur	Proposed Additions and Alterations to the Existing 14-Storey Office Building at Lot 3203, Section 41, Jalan Raja Muda Abdul Aziz, Kampung Bharu, Kuala Lumpur, for Co-Operative Co-Opbank Pertama Malaysia Berhad.



**BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN**



12.6 BUILDING, IAQ, HUMIDITY & MOLD CONTROL



**BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN**



12.6 BUILDING, IAQ, HUMIDITY & MOLD CONTROL

WHAT WE ARE OFFER?

- Full Site Investigation with Testing & Report.
- Proposal to Prevent or Solve the Mold & Humidity Problems.
- Modification & Repair Works.
- Decontamination.

WHAT IS INDOOR AIR QUALITY (IAQ) ?

Indoor Air Quality (IAQ) deals with the content of interior air that could affect health and comfort of building occupants. The IAQ may be compromised by microbial contaminants (mold, bacteria), chemicals (such as carbon monoxide, radon), allergens, or any mass or energy stressor that can induce health effects. Recent findings have demonstrated that indoor air is often more polluted than outdoor air (albeit with different pollutants) although this has not changed the common understanding of air pollution. In fact, indoor air is often a greater health hazard than the corresponding outdoor setting. Using ventilation to dilute contaminants, filtration, and source control are the primary methods for improving indoor air quality in most buildings.

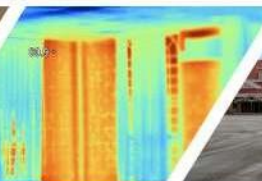
OUR EXPERTISE ON

PREVENT AND SOLVE HIGH HUMIDITY & MOLD CONTROL PROBLEMS



COLLABORATION WITH

SPECIALIST FROM THE ASHRAE RESEARCH COMMITTEE, MASON - GRANT CONSULTING (USA)





12.6 BUILDING, IAQ, HUMIDITY & MOLD CONTROL

WE ARE EQUIPPED WITH

1. Electronic Balancing Tool with Air Flow Pro Hood
2. Velometer for IAQ Monitoring
3. Temperature & Humidity Data Logger
4. Door Blower for Room Leakage Test
5. Infrared Thermometer for Surface Temperature
6. Air Sampling System
7. Particle Counter
8. Thermal Imager
9. Negative Air Machine
10. Air Scrubber
11. Heater Blower
12. Exhaust Extractor
13. Dust Collector
14. IAQ Meter
15. Formaldehyde Monitoring Kit
16. Particulate Monitoring Kit



OUR SERVICES ARE COMPLYING WITH

OUR CLIENTS



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EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



ASSESSMENT OF INDOOR AIR QUALITY

BY DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH (DOSH)

PARAMETER

1. Air Temperature
2. Relative Humidity
3. Air Movement

CHEMICAL CONTAMINANTS

4. Carbon Monoxide
5. Formaldehyde
6. Ozone
7. Respirable Particulates
8. Total Volatile Organic Compounds (TVOC)

BIOLOGICAL CONTAMINANTS

9. Total Bacterial Counts
10. Total Fungal Counts

VENTILATION PERFORMANCE INDICATOR

11. Carbon Dioxide

TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Kementerian Kesihatan Malaysia (KKM)	Air Conditioning Work, Extermination Work and Preventing Fungal Growing at Poliklinik Ayer Keroh, Melaka
2.	JKR, Pulau Pinang	Perkhidmatan Menanggal, Membersih Dan Merawat Kulat di Tingkat 5, Bangunan Wisma Persekutuan, SPU, Pulau Pinang.
3.	JKR, Putrajaya	Kerja-Kerja Mengenalpasti masalah Kulapuk di Tingkat 6, Kementerian Perusahaan Perladangan dan Komoditi. Lot 2G4, Putrajaya
4.	JKR, Perak	Kerja Mengalpasti Masalah Kulat di Dewan Undangan Negeri Perak, Ipoh.
5.	Faber Mediserve	Kerja Mengenalpati dan Mengkaji Masalah Kulat di Bangunan Tambahan Hospital Queen Elizabeth (QEH), Kota Kinabalu, Sabah.
6.	JKR, Putrajaya	Kerja-Kerja Kajian Masalah Kulapuk di Tingkat 6, Kementerian Perusahaan Perladangan dan Komoditi. Lot 2G4, Putrajaya
7.	JKR, Putrajaya	Kerja-Kerja Pengujian dan Pengambilan / Analisa Sampel Punca Kulat di Aras Lima dan Enam, Bangunan Lot 2G8, Presint 2, Putrajaya.
8.	JKR, Putrajaya	Kerja-Kerja Pembasmian Kulat dan Spora dengan Kaedah "Decontamination" di Aras Lima dan Enam Kementerian Kewangan, Bangunan Lot 2G8, Putrajaya
9.	Wisma Lembaga Kemajuan Ikan Malaysia (LKIM)	Perkhidmatan Membasmi Kulat di Bangunan Ibu Pejabat (Wisma LKIM) Pulau Meranti, Puchong, Selangor



12.7 MEDICAL GAS PIPELINE SYSTEM

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EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN



12.7 MEDICAL GAS PIPELINE SYSTEM



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12.7 MEDICAL GAS PIPELINE SYSTEM

MORE THAN
2500 PROJECTS
ALL OVER
THE WORLD

A whole world of technical excellence

since
1968



..... GREECE ALBANIA ALGERIA ANGOLA BOSNIA AND HERZEGOVINA BRASIL • BULGARIA • CAMBODIA • CYPRUS • CZECH REPUBLIC • EGYPT • FINLAND • FYROM • GEORGIA • GHANA
• HUNGARY • INDIA • INDONESIA • IRAN • IRAQ • ISRAEL • ITALY • IVORY COAST • JORDAN • KOSOVO • KUWAIT • LEBANON • LIBYA • LITHUANIA • MALAYSIA • MALTA • MAURITIUS • MOLDOVA
• MONTENEGRO • MOROCCO • MYANMAR • NAMIBIA • NEPAL • NETHERLANDS • NIGERIA • OMAN • PAKISTAN • PALESTINE • PHILIPPINES • POLAND • PORTUGAL • QATAR • ROMANIA • RUSSIA
• SAUDI ARABIA • SENEGAL • SERBIA • SEYCHELLES • SINGAPORE • SPAIN • SUDAN • SYRIA • TAIWAN • TANZANIA • TURKEY • U.A.E. • U.K. • UKRAINE • VIETNAM

ABOUT OUR COMPANY

G. SAMARAS S.A. is an international manufacturing company located in Thessaloniki, Greece. Having been active in the medical gas field since 1968, the company has a track record of continuous evolution and development. G. SAMARAS S.A. has become the leader in the Greek medical gas supply systems market, in which it holds more than 85% of the share. From the very beginning, G. SAMARAS S.A. recognized the importance of international growth. Thus, the company has managed to achieve a broad exports activity and network and, consequently, an extensive worldwide reference list. Having professionalism, reliability, solvency and flexibility as its key principles and guidelines, the company has gained not only valuable experience, but also strong domestic and international recognition and

reputation. Its strong know - how of medical gas supply systems and the durability of its products, has led the company to a strong market position. G. SAMARAS S.A. holds a very wide service and product portfolio, which is characterized by completeness, quality and a high degree of customization on everything related to medical gas supply systems. The company's 2 facilities occupy a building of 4000 m in the Industrial Area of Themi, Thessaloniki (Northern Greece). The company's skilled personnel consists of electrical and mechanical engineers, graduate and post-graduate economists, as well as licensed welders and electricians, who constitutes the driving force of the company.

WHY G. SAMARAS S.A.?

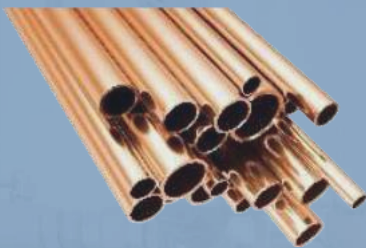
- More than 50 years of experience and expertise
- Extensive product portfolio
- High quality of services and products
- Know - how on everything related to medical gas supply systems
- Flexibility to every medical gas solution
- Well - trained and skilled personnel
- Competitive pricing
- Short delivery times
- Raw materials and spare parts availability
- Ease of use
- Remote control and monitoring
- Highly - responsive after sales service and customer - focused support
- Conformity with all standards
- CE marked products

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12.7 MEDICAL GAS PIPELINE SYSTEM



MEDICAL GAS NETWORK

- Copper pipes
- Copper parts (elbows, tees, couplings)
- Brass parts (nipples, elbows, caps, unions, adapters)
- Clamps
- Railways
- Tapes
- Welding materials
- Shut off/electromagnetic/non-return/safety valves
- Antistatic tubes
- Special tools



CYLINDER STATIONS

Their purpose is to reduce the pressure of medical gases originating either from cylinders or vessels. Their operation could be pneumatic, electrical or manual, the available capacities of reducers are 50/75/160/170/180m³/h (440m³/h only for vessels) whereas the outlet pressure could be between 4 and 8bar. Optionally they may include integrated medical gas alarm panel

- Manifolds-cylinder ramps
- Cylinder holders
- High pressure evacuation valves
- High pressure flexible tubes
- Pigtails
- Cylinders
- Vessels.



PATHOLOGY LABORATORY GAS SYSTEMS

According to Health Technical Memorandum (HTM 08-06), all laboratory gas systems should be discriminated from medical systems. For toxicity, flammability, corrosiveness and safety factors, those systems are being manufactured according to specific standards and from special materials.



MEDICAL VACUUM SYSTEMS

Our company manufactures medical vacuum systems according to each project's specifications.

- Vacuum pumps (oil-lubricated/oil-free) of nominal capacity 6-635m³/h
- Vessels (vertical/horizontal) of capacity 270-5.000lt
- Antibacterial filters 48-900m³/h
- Electrical control panels



MEDICAL AIR COMPRESSOR SYSTEMS

Our company manufactures medical air compressor systems according to each project's specifications

- Compressors (screw/scroll/piston), oil-lubricated or oil-free of nominal capacity 4-2500m³/h
- Vessels (vertical/horizontal) of capacity 50-5.000lt
 - Filters/sterile filters
 - Condensate separators/aftercoolers
 - Dryers (cooling/adsorption/membrane)
 - Condensate drains
 - Water/oil separators
 - Electrical control panels



12.7 MEDICAL GAS PIPELINE SYSTEM

PRODUCT PORTFOLIO



OXYGEN-NITROGEN GENERATORS

Pressure Swing Adsorption (PSA) is a low power consuming solution, efficient and reliable for onsite production of high purity medical oxygen. It uses the basic principle of passing air over adsorbent material which bound with nitrogen to leave rich stream of oxygen. Our company provides various solutions according to the size and needs of each hospital.



ANAESTHETIC GAS SCAVENGING SYSTEMS

The suction and disposal to the environment of the redundant gases from the anesthetic equipment inside the operating theatres but also from the emitted anesthetic gases from patients in the stage of recovery, is being applied by using an automatic anesthetic gas scavenging disposal system (AGSS), through the AGSS outlets which are installed in various departments. Available solutions:

- Central systems of capacity 40-330m³/h
- Autonomous scavenging outlets
- Venturi apparatus



MEDICAL GAS TERMINAL UNITS / OUTLETS

Outlets are installed at the final delivery points in a medical gas pipeline system. They are used by personnel to supply the various gases using special probes. They are available in accordance with the following norms:

- ENV 737-6
- AFNOR NF S 90-116
- DIN 13260-2
- BS 5682
- SS 875 24 30
- ISO 9170-2
- SANS 1409:2008
- UNI
- NIST EN 739



SECOND STAGE CONTROL AND REDUCER PANELS / AREA VALVE SERVICE UNITS

Installed in wards in order to ensure normal pressure of the medical gases and provide the ability to shut off, check and maintain the local medical gas network. Provided for 1-6 gases with or without medical gas alarm panel.



MEDICAL GAS ALARM SYSTEMS

The monitoring and alarm systems are used to provide all the important information to the control room. They indicate the pressure level of each gas (Low, Normal, High) whereas they can supply with information about a single medical station. Moreover, they are able to send useful data to a remote user.



12.7 MEDICAL GAS PIPELINE SYSTEM

PRODUCT PORTFOLIO

BED HEAD UNITS

Their aim is to provide all essential services (medical gases, electrical supply, lighting, nurse call, data, etc.) to the patient / nurse / doctor.

G. Samaras SA has a broad range of models in horizontal / vertical / round / ceiling suspended configuration able to cover all needs of each single department.



CEILING PENDANT ARMS

The ceiling pendants are being placed on the ceiling of intensive care units and operating theaters for grouping and providing all necessary electrical, data and medical gases services to the medical staff. They are available in various configurations and according to each project's needs.

- Without arm
- With one arm
- With two arms
- With electrical movement (one/two arms)
- With electrical-telescopic movement



OPT CONTROL PANELS

OPT Control Panel, is the central device gathering all necessary control signals, alarms and information required in an Operating Theater.



NURSE CALL SYSTEMS

The nurse call system is installed in a nursing unit. It helps patients/relatives/nurses/doctors to call a nurse in case of an emergency or any other need of a patient. Typically they are consisted of:

- Central station
- Handsets
- Room stations
- WC pull cords
- Corridor lights



SECONDARY MEDICAL EQUIPMENT

- Hospital clocks
- Flowmeters
- Vacuum regulators
- Suction devices
- Carts
- IV stands
- Anaesthesia machines
- Pneumatic tube systems
- Emergency lighting-Fire detection-Gas detection systems
- OPT tables
- Hospital beds/cabinets
- OPT - Examination lights



TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Hospital Tengku Ampuan Rahimah, Klang	Air-Conditioning Work, Medical Gas System , Fire Fighting, Water pipe, Insulations at Jabatan Pesakit Luar HTAR, Klang Selangor
2.	Queen Elizabeth Hospital (Hosp. Support Service)	Medical Gas Pipeline System- Decanting ward at Queen Elizabeth Hospital
3.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Kudat, Kota Marudu, Kota Belud, Tuaran, Queen Elizabeth, Bukit Padang & Papar. System under supervision: -PABX, Boiler, Lift, Fire Fighting, Air Conditioning, System Water Treatment, BAS Medical Gas Pipeline System
4.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1H) at Ranau, Tambunan, Keningai, Tenom, Beaufort, Sipitang and Labuan. System under supervision: -PABX, Boiler, Lift, Fire Fighting, Air Conditioning, System Water Treatment, BAS Medical Gas
5.	Hospital Universiti Sains Malaysia (HUSM)	Kerja-kerja Menaiktaraf Penambahan Wall Type Outlet Point Gas Perubatan di Wad 3 Utara, Universiti Sains Malaysia, Kubang Kerian, Kelantan
6.	Hospital Universiti Sains Malaysia (HUSM)	Kerja-kerja Menaiktaraf Penambahan Wall Type Outlet Point Gas Perubatan di Wad 7 Utara, Universiti Sains Malaysia, Kubang Kerian, Kelantan
7.	Radicare, HKL	Supply & Install of Medical Alarm at Hospital Kuala Lumpur
8.	Radicare, Klang	Replacement of Medical Vacuum Filter

TRACK RECORDS

No.	Clients	Projects / Work Description
9.	Faber Mediserve	Medical Gas System for Old Block at Queen Elizabeth Hosp. (QEH), Kota Kinabalu
10.	Hospital Universiti Sains Malaysia (HUSM)	Kerja-Kerja Ubah suai Dewan Bedah, PPSG, USM, Kubang Kerian, Kelantan.
11.	Radicare Kajang	Servicing Hydrovane Air-Compressor at Hospital Kajang
12.	Radicare	Supply & Install Medical Air & Vacuum Outlets at Hospital Banting
13.	Pusat Perubatan Universiti Malaya (PPUM)	Tawaran bagi membekal, menghantar, memasang, menguji dan mentauliahkan 2 unit Medical Vacuum System di Pusat Perubatan Universiti Malaya (PPUM)
14.	Faber Mediserve	Supply, delivery, install, testing & commissioning of Dominick Hunter Refrigeration Dryer & Coalescer Filters at Nilai Plant
15.	Faber Mediserve	Supply and install of instrument Air Dryer at Nilai Plant
16.	Faber Mediserve	Design, Supply and Install of Air Dryer & Filter Set at Nilai Plant
17.	Lembaga Penduduk dan Pembangunan Keluarga Negara (LPPKN)	Kerja-kerja Pembaikan dan Pengubahsuaian Dewan Bedah, Tingkat 7, Bangunan Ibu Pejabat LPPKN, Jalan Raja Laut, Kuala Lumpur
18.	UiTM Sungai Buloh	Cadangan membina dan menyiapkan Fakulti Pergigian dan Kolej kediaman untuk Universiti Teknologi Mara (UiTM) di Kampus Sungai Buloh, Selangor

TRACK RECORDS

No.	Clients	Projects / Work Description
19.	Hospital Tengku Ampuan Rahimah, Klang	Kerja-Kerja Penggantian Sistem Gas Perubatan Dan Perpaipan Bagi Compressed Air Dan Vakum Termasuk Kerja-Kerja Lain Berkaitan Di Hospital Tengku Ampuan Rahimah, Klang, Selangor
20.	Hospital Bintulu, Sarawak	Cadangan Menaiktaraf Unit Rawatan Kebakaran Hospital Bintulu, Lot 3606, Blok 26, Kemena Land District, Sarawak
21.	Pusat Perubatan Universiti Malaya	Cadangan Mengubahsuai Serta Menukar Kegunaan Ruang Letak Kereta Di Tingkat 4 Bangunan Menara Selatan Pusat Perubatan Universiti Malaya Untuk Dijadikan Wad Kardiologi (CCU) Untuk Tetuan Pusat Perubatan Universiti Malaya.
22.	Hati Muda Sdn Bhd	Pembinaan Hospital Swasta (95 katil) yang mengandungi 1 blok Hospital 8 tingkat diatas lot PT 1331 & lot PT 1328, Sungai Bakau Mukim Rawang Selangor Darul Ehsan untuk Selgate Rawang Hospital Sdn Bhd
23.	Sri Esbina (M) Sdn Bhd	Proposed 7-Storey Building Extension With 154-Bedded Wards & Specialist Clinics For Tawau Hospital, On Part of TL.107524505, Tawau, Sabah.
24.	B.H.O Sdn Bhd	Naiktaraf Hospital Papar, Sabah.



12.8 HOT WATER & STEAM SYSTEM

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12.8 HOT WATER & STEAM SYSTEM

Steam, hot water and process heating are all essential resources of many industries. They often provide convenient, reliable and cost effective energy with which to undertake the processes that are fundamental to your business. As such an indispensable tool, there are great benefits to be gained from running these systems at their optimum efficiency, providing the best performance, safety and energy efficiency possible.

Whether you are looking for advice on choosing the right steam trap or building a complete new plant, you can be sure that our flexible steam system services will yield genuine business benefits. Our specialists will work closely with your team to identify, design and implement improvements to your steam system and maintain the resulting efficiency gains.

If you are planning a new steam, hot water or process heating system, this process outlines the steps required to ensure you achieve excellent design and to help you understand where to spend your valuable capital. If your requirements have changed, for example, if there have been significant upgrades to the process plant or equipment, you may need to install more efficient equipment or expand your current system. This will involve elements of both solutions. Firstly, ensure your existing system is running efficiently (Solution 1) and secondly, design the new components of the expanded system (Solution 2). Following this process will ensure that you are not wasting money purchasing more than you actually need. Additionally, information gained from reviewing efficiency may guide the selection and design of the new components of the system.





12.8 HOT WATER & STEAM SYSTEM

OUR SCOPE

Provides design and build for :

- **Hot Water System**

Primary System / Secondary

- **Steam System**

Generation Plant / Distribution System / Utilization

Condensate / Energy Recovery

WHAT IS HOT WATER & STEAM SYSTEM ?

Steam and hot water boilers are defined according to design pressure and operating pressure. Design pressure is the maximum pressure used in the design of the boiler for the purpose of calculating the minimum permissible thickness or physical characteristics of the pressure vessel parts of the boiler.

Typically, the safety valves are set at or below design pressure. Operating pressure is the pressure of the boiler at which it normally operates. The operating pressure usually is maintained at a suitable level below the setting of the pressure relieving valve(s) to prevent their frequent opening during normal operation.

Some steam applications may require superheated steam. It should be noted that superheated steam has a high enthalpy, so there is more energy per pound of steam and higher (drier) steam quality. One example of an application where superheated steam may be required is with a steam turbine. The turbine's blades require very dry steam because the moisture can destroy the blades. When very high pressure or superheated steam is required, an industrial watertube boiler should be selected.

WHAT WE OFFER ?

We will always strive to provide the most effective ways to improve your business performance by optimising your steam system.

We bring a knowledgeable approach to the control and efficient use of steam systems and equipments. By taking the time to understand your business needs, we can create the best solution using our expertise and high quality products and services. Whether your target is to reduce energy consumption and carbon emissions, boost productivity, ensure safe operations or something else, we'll help you achieve sustainable success.

OUR CLIENTS



TRACK RECORDS

No.	Clients	Projects / Work Description
1.	Radicare Teluk Panglima Garang	Supply, delivery, installs, testing and commissioning of process piping & ancillary equipment for the proposed laundry plant. Steam supply & condensate return piping & installation
2.	Radicare Selayang	Supply, delivery, installation of water tap electric water boiler. Supply and install pressure gauge, brass hose & hose clip. Supply & install PRV fitting and accessories. Steam Pipe Autoklaf Bitology. Supply & install timer at boiler room control panel.
3.	Faber Mediserve	Upgrading of steam system at Faber Mediserve Laundry Plant in Nilai
4.	Faber Mediserve	Repair of steam piping at F.M Laundry Plant in Nilai
5.	Faber Mediserve	Repair of steam piping at F.M Laundry Plant in Nilai
6.	Faber Mediserve	Supply of boiler spare parts during overhauling work
7.	Faber Mediserve	Overhauling steam boiler
8.	Faber Mediserve	Repair of boiler and steam equipment
9.	Hospital Besar Kuala Lumpur	Upgrading of the steam at autoclave 5,6 & 7 at MCSSD
10.	Hospital Besar Kuala Lumpur	Steam piping works at general operation theater (GOT)
11.	Faber Mediserve	Piping work at Faber Nilai
12.	Hospital Besar Kuala Lumpur	PRV Installation for Steam Piping at GOT

TRACK RECORDS

No.	Clients	Projects / Work Description
13.	Faber Mediserve	Package ML3-Provision of M&E equipment & lift maintenance services in Sabah region (Hot Water Boiler)
14.	Hospital Kuala Pilah, Negeri Sembilan	The design, construction & commissioning of hot water system & associated accessories at Hosp. Kuala Pilah, Negeri Sembilan
15.	Hospital Besar Kuala Lumpur	The design, construction & commissioning of hot water system & associated accessories at Pediatric HKL
16.	Madilaund Radicare, Teluk Panglima Garang	Supply, delivery, install, testing & commissioning of process piping and ancillary equipment for the proposed centralized laundry plant. The package includes all the system as follow: 1. Water pumping plant & control system 2. Water storage tank i.e. reinforced FRP tank 3. Steam & condensate piping 0.6M 4. Process water piping 5. Compressed air piping 6. Natural Gas (LPG)Piping

13.0

PROJECT SHOWCASE



13. 1 - ASSET, FACILITY & MAINTENANCE MANAGEMENT

- PROTON SHAH ALAM
- PROTON TANJUNG MALIM
- POS MALAYSIA
(ZON KL & SELANGOR)
- KUARTERS KERAJAAN PRESINT 10,
PUTRAJAYA
- HOSPITAL QUEEN ELIZABETH
- HOSPITAL SANDAKAN
- HOSPITAL LAHAD DATU
- HOSPITAL TAWAU
- HOSPITAL LABUAN
- HOSPITAL BEAUFORT
- HOSPITAL SIPITANG
- HOSPITAL LIKAS
- HOSPITAL RANAU
- HOSPITAL TENOM
- HOSPITAL KENINGAU
- HOSPITAL TAMBUNAN
- HOSPITAL KUALA PENYU
- HOSPITAL PAPAR

13. 2 - PROJECTS MANAGEMENT

- PUSAT PEMBEDAHAN KATARAK SELAYANG
- POLIKLINIK KOMUNITI AYER KEROH, MELAKA
- MAKMAL J12/J13, USM PULAU PINANG
- MAKMAL BSL, USM PULAU PINANG
- UiTM KAMPUS SUNGAI BULOH
- HOSPITAL BINTULU, SARAWAK
- HOSPITAL UMUM SARAWAK
- HOSPITAL SIBU, SARAWAK
- JABATAN PATOLOGI, HOSPITAL MIRI, SARAWAK
- PUTRA SPECIALIST HOSPITAL, MELAKA

PROJECT SHOWCASE

13. 1 - ASSET, FACILITY & MAINTENANCE MANAGEMENT

- PROTON SHAH ALAM
- PROTON TANJUNG MALIM
- POS MALAYSIA
(ZON KL & SELANGOR)
- KUARTERS KERAJAAN PRESINT 10,
PUTRAJAYA
- HOSPITAL QUEEN ELIZABETH
- HOSPITAL SANDAKAN
- HOSPITAL LAHAD DATU
- HOSPITAL TAWAU
- HOSPITAL LABUAN
- HOSPITAL BEAUFORT
- HOSPITAL SIPITANG
- HOSPITAL LIKAS
- HOSPITAL RANAU
- HOSPITAL TENOM
- HOSPITAL KENINGAU
- HOSPITAL TAMBUNAN
- HOSPITAL KUALA PENYU
- HOSPITAL PAPAR



PROTON SHAH ALAM

MAINTENANCE OF HVAC SYSTEM FOR THE PERIOD OF 3+3 YEAR
AT PROTON TANJUNG MALIM AND PROTON SHAH ALAM



PROTON TG.MALIM



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

POS MALAYSIA (ZON KL & SELANGOR)

INTEGRATED FACILITY MANAGEMENT & MAINTENANCE SERVICES AT POS MALAYSIA PREMISES IN KUALA LUMPUR & SELANGOR

Scope & system under supervision :

1. Air Conditioning Maintenance
 - Split Unit
 - Water Chiller Unit
2. Housekeeping and Cleaning Services
 - Internal / External Cleaning
 - Stairwell
 - Elevators
 - Rest room / Toilet
 - Cafeteria / Eating Area
3. Landscaping and Ground Maintenance
 - Parking & Driveways
 - Passageway & Coveredway
 - Refuse Bin Center
 - Water Features
 - Softscape / Hardscape
 - Managing of Potted Plant
 - Pest Control Services
4. Waste Collection Services
 - Waste Management Services

List of Pos Malaysia Branches in Kuala Lumpur (Zone 1) :

- | | | |
|--|-------------------------|--------------------------------|
| 1. Pos Kuala Lumpur City Center (KLCC) | 13. Serahan Batu Caves | 25. Pos TTDI |
| 2. Pos Ampang Park | 14. Pos TESCO Selayang | 26. Serahan TTDI |
| 3. Pos Ampang Point | 15. Pos Selayang Baru | 27. Pos Mont Kiara |
| 4. Pos Ampang Spectrum | 16. Pos Selayang Mall | 28. Pos Bangsar |
| 5. Pos Taman Dagang | 17. Pos JUSCO Kepong | 29. Pos Universiti Malaya (UM) |
| 6. Pos Taman Seraya | 18. Pos TESCO Manjalara | 30. Pos Mid Valley |
| 7. Pos Pandan Indah | 19. Pos Jinjang | 31. Pos Bukit Angkasa |
| 8. Pos Pandan Prima | 20. Serahan Jinjang | 32. Poslaju Batu Caves |
| 9. Pos Desa Pandan | 21. Pos Jalan Kuching | 33. Poslaju Brickfields |
| 10. Pos Taman Sri Gombak | 22. Pos UIAM | 34. Pos Brickfields |
| 11. Pos Gombak | 23. Pos Melawati | 35. Pos Bandar Sri Damansara |
| 12. Pos Batu Caves | 24. Pos Wangsa Maju | 36. Pos Setiawangsa |

List of Pos Malaysia Branches in Kuala Lumpur (Zone 2) :

- | | | |
|------------------------|--------------------------|-------------------------------------|
| 1. Pos Pudu | 11. Pos Bandar Tun Razak | 21. Pos Kampung Baru |
| 2. Pos Jalan Peel | 12. Pos Salak Selatan | 22. Pos Hospital Kuala Lumpur (HKL) |
| 3. Pos Taman Maluri | 13. Pos Sungai Besi | 23. Pos Setapak |
| 4. Serahan Cheras | 14. Pos Sri Petaling | 24. Pos Sentul |
| 5. Serahan Ampang | 15. Pos Taman Kinrara | 25. Pos Jalan Ipoh |
| 6. Pos Damai Perdana | 16. Pos Jalan Klang Lama | 26. Pos PULAPOL |
| 7. Pos Taman Connaught | 17. Pos Petaling | 27. Pos Jalan Gurney |
| 8. Pos Taman Midah | 18. Pos Sg Wang | 28. Pos Chan Saw Lin |
| 9. Pos Cheras Makmur | 19. Pos Medan Tuanku | 29. Pos Viva Home |
| 10. Poslaju Cheras | 20. Pos Jalan TAR | |

POS MALAYSIA (ZON KL & SELANGOR)

INTEGRATED FACILITY MANAGEMENT & MAINTENANCE SERVICES AT SELECTED LOCATION OF POS MALAYSIA PREMISES IN SELANGOR

Scope & system under supervision :

1. Air Conditioning Maintenance
 - Split Unit
 - Water Chiller Unit
2. Housekeeping and Cleaning Services
 - Internal / External Cleaning
 - Stairwell
 - Elevators
 - Rest room / Toilet
 - Cafeteria / Eating Area
3. Landscaping and Ground Maintenance
 - Parking & Driveways
 - Passageway & Coveredway
 - Refuse Bin Center
 - Water Features
 - Softscape / Hardscape
 - Managing of Potted Plant
 - Pest Control Services
4. Waste Collection Services
 - Waste Management Services
5. Maintenance of Civil & Electrical
 - Elevators

List of Pos Malaysia Branches in Selangor (Zone 1) :

1. Pos Taman Equine
2. Pos Universiti Putra Malaysia (UPM)
3. Pos Sri Kembangan
4. Poslaju Bangi
5. Serahan Bandar Baru
6. Serahan Seri Kembangan
7. Pos Bandar Baru Bangi
8. Pos Universiti Kebangsaan Malaysia (UKM)
9. Pos Hentian Kajang
10. Pos Kajang 2020
11. Pos Alamanda
12. Pos Putrajaya
13. Pusat Mel Kerajaan
14. Pos Cyberjaya
15. Pos Dengkil
16. Serahan Dengkil
17. Pos Bandar Baru Salak
18. Pos KLIA Selatan
19. Pos KLIA Terminal
20. Pos Sepang
21. Pos Balakong
22. Pos Cheras Selatan
23. Pos Batu 9, Cheras
24. Pos Ulu Langat
25. Serahan Batu 9, Cheras
26. Pos Beranang
27. Pos Semenyih
28. Serahan Semenyih
29. Pos Bandar Teknologi
30. Pos TESCO Kajang
31. Pos Bukit Dukong

List of Pos Malaysia Branches in Selangor (Zone 4) :

1. Pos Putra Height
2. Pos Puchong Perdana
3. Pos Bukit Puchong
4. Serahan Puchong
5. Pos Puchong Jaya
6. Pos Bandar Kinrara
7. Pos USJ 9, Subang Jaya
8. Pos USJ 1, Subang Jaya
9. Pos Subang Jaya
10. Serahan Subang Jaya
11. Pos Bandar Sunway
12. Pos SS16 AEON Subang Jaya
13. Pos One Utama
14. Pos Damansara Jaya
15. Pos Tropicana Mall
16. Pos Seksyen 17, Petaling Jaya
17. Pos Jalan Semangat
18. Pos Seksyen 20, Petaling Jaya
19. Pos SS2 Seapark, Petaling Jaya
20. Pos Kelana Jaya
21. Pos Kg. Tunku
22. Pos Jalan Sultan
23. Serahan Jalan Sultan
24. Pos Jalan Othman
25. Pos Taman Sri Muda
26. Pos Seksyen 16, Shah Alam
27. Pos UiTM Shah Alam
28. Pos PKNS Shah Alam
29. Pos Besar Shah Alam (GPO)
30. Pos TESCO Shah Alam
31. Pos Seksyen 13 Giant Shah Alam
32. Pos Laju Shah Alam
33. Pos Terminal 3 Subang
34. Pos Kg. Melayu Subang



POS MALAYSIA ZON K.L. & SELANGOR

INTEGRATED FACILITY MANAGEMENT & MAINTENANCE SERVICES AT
POS MALAYSIA PREMISES IN KUALA LUMPUR & SELANGOR



PRESINT 10, PUTRAJAYA

PERKHIDMATAN PENGURUSAN DAN PENYELENGGARAAN KUARTERS
KERAJAAN PERSEKUTUAN DI PRESINT 10, PUTRAJAYA



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

HOSPITAL QUEEN ELIZABETH



**Hospital Building & Facilities Maintenance for
Hospital Support Services - Comprehensive Maintenance
Air Conditioning Split & Window Unit at :**

1. Hospital Queen Elizabeth
2. Hospital Sandakan
3. Hospital Lahad Datu



HOSPITAL SANDAKAN



HOSPITAL LAHAD DATU



**Hospital Building & Facilities Maintenance for
Hospital Support Services - Non Comprehensive
Maintenance Package ML3 at :**

1. Hospital Queen Elizabeth
2. Hospital Lahad Datu
3. Hospital Sandakan
4. Hospital Tawau
5. Hospital Labuan
6. Hospital Beaufort
7. Hospital Sipitang

Scope & system under supervision :

1. Air Conditioning System
 - i. Air Handling Unit
 - ii. Fan Coil Unit
 - iii. Lift
 - iv. Cooling Tower
 - v. Chiller
 - vi. Chiller Water Pump
 - vii. Chiller Condensor
 - viii. Water Treatment Cooling Tower
2. Building Automation System (BAS)
3. Medical Gas
4. Lift
5. Fire Fighting
6. PABX
7. Boiler

HOSPITAL SANDAKAN



HOSPITAL TAWAU



HOSPITAL LABUAN



HOSPITAL BEAUFORT



HOSPITAL QUEEN ELIZABETH



HOSPITAL LAHAD DATU



HOSPITAL SIPITANG



Provision of Supply & Management of Labour (Cleaning Services) for Zone SS5 in Sabah Region

- | | |
|----------------------|-------------------------|
| 1. Hospital Likas | 6. Hospital Sipitang |
| 2. Hospital Ranau | 7. Hospital Kuala Penyu |
| 3. Hospital Tenom | 8. Hospital Beaufort |
| 4. Hospital Keningau | 9. Hospital Papar |
| 5. Hospital Tambunan | |

HOSPITAL TAMBUNAN



HOSPITAL LIKAS



HOSPITAL SIPITANG



HOSPITAL RANAU



HOSPITAL K. PENYU



HOSPITAL TENOM



HOSPITAL BEAUFORT



HOSPITAL KENINGAU



HOSPITAL PAPAR



// PROJECT SHOWCASE

13.2 - PROJECTS MANAGEMENT

- PUSAT PEMBEDAHAN KATARAK SELAYANG
- POLIKLINIK KOMUNITI AYER KEROH, MELAKA
- MAKMAL J12/J13, USM PULAU PINANG
- MAKMAL BSL, USM PULAU PINANG
- UiTM KAMPUS SUNGAI BULOH
- HOSPITAL BINTULU, SARAWAK
- HOSPITAL UMUM SARAWAK
- HOSPITAL SIBU, SARAWAK
- JABATAN PATOLOGI, HOSPITAL MIRI, SARAWAK
- PUTRA SPECIALIST HOSPITAL, MELAKA



PUSAT PEMBEDAHAN KATARAK

CADANGAN MEREKABENTUK, MEMBINA, MENYIAPKAN,
MENTAULIAH & MENYELENGGARA PUSAT BEDAH KATARAK
(MAIWP)



POLIKLINIK KOMUNITI AYER KEROH, MELAKA

AIR CONDITIONING WORK, EXTERMINATION AND PREVENTING FUNGAL
GROWING AT POLIKLINIK AYER KEROH, MELAKA



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

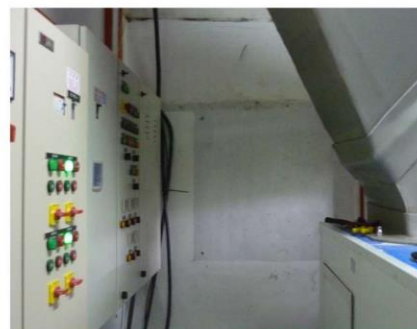
UNI. SAINS MALAYSIA J12 / J13 LABORATORY

CADANGAN UBAHSUAI DAN NAIK TARAF BLOK J12 (ARAS 2) DAN BLOK 13 (ARAS BAWAH) UNTUK DIJADIKAN MAKMAL-MAKMAL PENYELIDIKAN DAN PEMBELAJARAN UNTUK PUSAT PENGAJIAN SAINS FARMASI USM, PULAU PINANG.



UNI. SAINS MALAYSIA BSL LABORATORY

CADANGAN MEREKABENTUK, MEMBINA, MENYIAPKAN, MELENGKAKAN, MENYELENGGARA DAN MENTAULIAH " BIOSAFETY LABORATORY LEVEL 2 (BSL) DI TINGKAT 1, BLOK A, SAINS @USM DI ATAS LOT 2164 DAN 2494 MUKIM 13, DAERAH TIMUR LAUT UNTUK MAKMAL PENYELIDIKAN FAR MASEUTIKAL, INSTITUT FARMASEUTIKAL DAN NUTRASEUTIKAL MALAYSIA, KEMENTERIAN SAINS TEKNOLOGI DAN INOVASI, UNIVERSITI SAINS MALAYSIA, PULAU PINANG



UNI.TEKNOLOGI MARA SG. BULOH

CADANGAN MEMBINA DAN MENYIAPKAN FAKULTI PERGIGIAN DAN KOLEJ KEDIAMAN UNTUK UNIVERSITI TEKNOLOGI MARA (UiTM) DI KAMPUS SUNGAI BULOH



HOSPITAL BINTULU

CADANGAN MENAIKtaraf UNIT RAWATAN KEBAKARAN HOSPITAL BINTULU, LOT 3606, BLOK 26, KEMENA LAND DISTRICT, SARAWAK



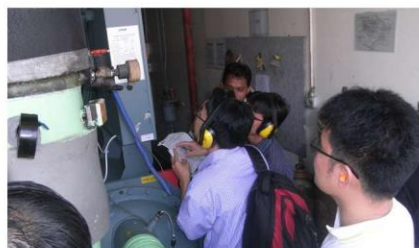
HOSPITAL UMUM SARAWAK

CADANGAN PENGGANTIAN SISTEM PENYAMAN UDARA BERPUSAT
TERMASUK AHU DAN PERALATAN -PERALATAN LAIN BERKAITAN
UNTUK BANGUNAN PESAKIT LUAR HOSPITAL UMUM SARAWAK.



HOSPITAL SIBU, SARAWAK

CADANGAN KERJA-KERJA PENGGANTIAN CHILLER SISTEM PENYAMAN
UDARA BERPUSAT DI HOSPITAL SIBU, SARAWAK



JABATAN PATOLOGI HOSPITAL MIRI, SARAWAK

CADANGAN MENAIKTARAF JABATAN PATOLOGI HOSPITAL MIRI KE MAKMAL
PERUBATAN ZON UTARA NEGERI SARAWAK



PUTRA SPECIALIST HOSPITAL MELAKA

EXECUTION OF ENERGY EFFICIENCY INITIATIVES IN 9 STATE-OWNED BUILDINGS
IN MELAKA OF WHICH THE FIRST PHASE (1ST PHASE) SHALL BE FOLLOWING
BUILDINGS LOCATED AT :
PUTRA SPECIALIST HOSPITAL, MELAKA



BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

14.0

PRODUCTS



14.0 PRODUCTS



14.1 Oil Free Chiller



14.2 Advance Air Filtration



14.3 Cleanroom Air Flow Control



14.4 Medical Gas Pipeline System



G. Samaras S.A.
MEDICAL GAS SYSTEMS

14.5 Medical Gas Pipeline System

DISTECH
CONTROLS®

14.6 Building Management/Automation System

We Provide customers HVAC Equipment with the best selection plan, reasonable system configuration, and professional technical consulting and support. Our factory fully implementing modern management, has a professional technical development team and high-quality production, quality, environmental management team, The management team are from the world top 500 enterprises. We also have advanced production equipments and testing equipments, so we basically achieve the management standardization, modernization of production, professional of product testing and comprehensive quality and environmental management system.

We Provide customers HVAC Equipment with the best selection plan, reasonable system configuration, and professional technical consulting and support. Our factory fully implementing modern management, has a professional technical development team and high-quality production, quality, environmental management team, The management team are from the world top 500 enterprises. We also have advanced production equipments and testing equipments, so we basically achieve the management standardization, modernization of production, professional of product testing and comprehensive quality and environmental management system.

The integrated technology enables to lower the start-up current, and automatically adjust the quantity of refrigeration through the frequency conversion technology to adapt present requirement of refrigeration. BSE's products has reached the highest energy efficiency, and, in particular, the partial load efficiency of the machine's actual operating point has reached an advanced level in the whole industry.



QUESTCHILLER™

BSE QUESTCHILLER™ family chillers are the oil-free, variable frequency and centrifugal water-cooled chillers, including three series of Q1, Q2, and Q3 with both a vertical structure and a horizontal structure and a cooling capacity covering 300kW (85RT) to 4925kW (1400RT).



QUESTCHILLER™ family chillers are the combinations of the most advanced technologies in the world, which allows a new height of the chiller's efficiency. The products are the new generations of the chillers with a distinguished operational efficiency and reliability without obvious reduction in performance. That could be widely used in the newly-built and reconstructed public architectures, such as the guesthouses, the hotels, the schools, the shopping malls and the office buildings etc, or also be used in the industrial cooling and industrial environment control, such as the factory buildings and industrial laboratories.

QUESTCHILLER™ family chillers have the following characteristics:

- Oil-Free VFD centrifugal compressor
- Super high IPLV and COP
- R134a refrigerants, no harm to the ozone
- Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity
- Low noise and small vibration
- PAC programmable auto-controller
- Small size and light weight
- Tiny start-up current with no strike to the electronic grids
- Intelligent alarming and failures handling

I-CHILLER™

BSE I-CHILLER™ Family Oil-Free VFD Centrifugal Modular Unit Chiller/Heat are your smart choices now and in the future. The chiller is in the design of 250kw(71RT)-4200kw(1200RT) and uniform measure of 0.89m(W)x1.2m(L)x1.8m(H).

I-CHILLER™ Modular Units is oil-free, frequency conversion centrifugal chillers/heat pumps in modular units that are applied with all digital oil-free centrifugal compressors. Combined with the high-efficient plate exchanger and the powerful PAC controller, it allows a 40% improvement of the annual operational efficiency than that of the traditional chillers. The single unit only occupies a footprint of 1m² with a tiny height of 1.8m and a weight of 1 ton. They are currently the chillers that are the smallest in volume, the lightest in weight, and the least needs in refrigerant charge in the world when outputting the same cold energy.



BSE I-CHILLER™ Family Oil-Free Variable Centrifugal Modular Unit Chillers/Heat Pumps have the following characteristics:

- i) Small size and light weight
- ii) Low noise and small vibration
- iii) Oil-Free VFD centrifugal compressor
- iv) Intelligent alarming and failures handing
- v) Tiny start-up current with no strike to the electronic grids
- vi) R134a refrigerants, no harm to the ozone
- vii) Super high IPLV and COP
- viii) Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity



CLOUDCHILLER™

BSE CLOUD-CHILLER™ family chillers are the oil-free, frequency conversion air cooled chillers, which could be used independently when no cooling water is available, including two types for conventional and free cooling, optional hydraulic module and a cooling capacity covering 200kW (57RT) to 1800kW (512RT).

The integrated part load value(IPLV) of BSE air cooled chillers is 50% more than the traditional ones.This is a great breakthrough for air cooled chillers as it could sharply decrease the operational cost and reduce the carbon emissions.The application of the chillers vibration free,and compared with a screw chiller which provides the same cooling energy,their operational noise is only 60dB.

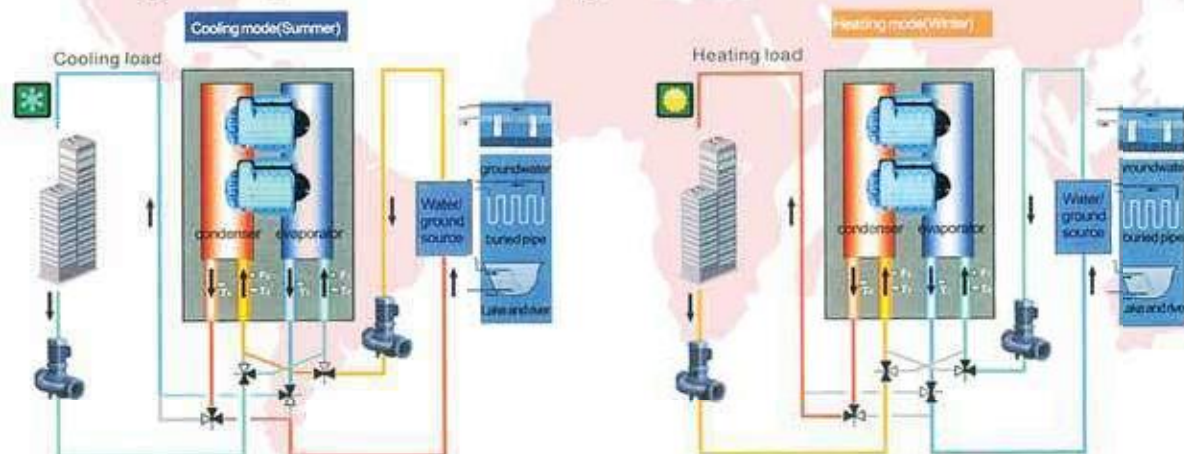
CLOUDCHILLER™ family chillers have the following characteristics :

- i) Oil-Free VFD centrifugal compressor
- ii) Super high IPLV and COP
- iii) R134a refrigerants, no harm to the ozone
- iv) Oil-Free, an absolute solution to the oil-return problem and a great improvement to the reduction of the cooling capacity
- v) Low noise and small vibration
- vi) PAC programmable auto-controller
- vii) Small size and light weight
- viii) Tiny start-up current with no strike to the electronic grids
- ix) Intelligent alarming and failures handling



FIRECHILLER™

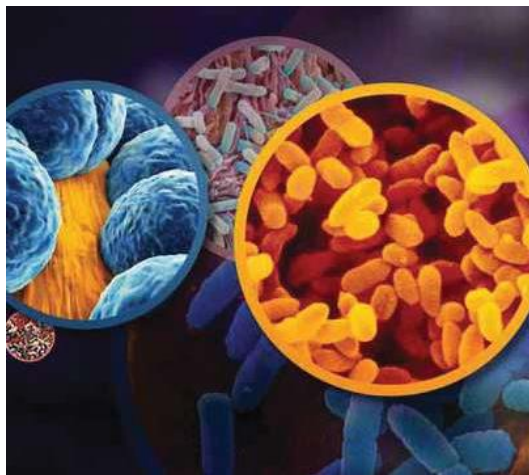
Heat pump is a new approach for heating source. With more attentions are paid from all sectors of community to the measures taken in energy-saving, emission-reduction and building energy conservation. The heat pump has been listed as one of the main measures for building energy conservation and the development of renewable energies, which will be greatly promoted for the heating in northern part of China. The heat pump works by power drive, which is to take heat from low-temperature heat sources, such as the surface water, the sea water, the groundwater, the municipal wastewater and also the underground soils, etc., the heating energy of which is taken by the heat pump in the winter and is released back in the summer. Therefore, these sources are able to serve as the cooling sources in the summer for the air-conditioning and then to offer the heat source for the building heating in the winter. The chillers are able to work without the cooling tower system when it is refrigerating to avoid the noise pollution cause by it and the waste of the water resources; and are able to work without the boil water system when it is heating to avoid the discharge of the pollution and achieving a cleaner environment.



According to the statistics, among the buildings with the central air conditioning accounts 55% of the total energy consumption. The energy consumption of the central air-conditioning system is mainly generated in the following three parts : the cooling and heating sources of air conditioning system, the air conditioning unit and terminal equipment, and the transport system of water or air. The cooling and heating source of air conditioning system is the main part of these three parts, which contributes around half energy consumption. In order to reduce the high energy consumption BSE developed the new energy-saving Firechiller™ series oil-free, centrifugal heat pump unit. This unit is applied with the new generation of oil-free, frequency invert centrifugal compressor, direct drive, digital magnetic levitation bearing, permanent magnet motor, etc. When the compressor speed is reduced, the power consumption is reduced significantly; the use of magnetic levitation technology was achieved oil-free operation, which help the maximum degree of reduction of the efficiency of the oil and the attenuation, so that the system is more efficient, while increasing the service life of the unit. The IPLV of Firechiller™ series oil-free centrifugal heat pump unit is more than 9, and the power consumption is reduced by more than 35%. The unit can provide high temperature chilled water in the summer, and it can realize the independant application of temperature and humidity of geothermal heat pump. In addition, the oil-centrifugal heat pump unit with the use of renewable energy sources, such as water source, geothermal source, can make the whole air conditioning system energy efficiency has been further improved, and become a model of energy conservation.

A natural phenomenon, surprising and efficient as the sun light. This is Bioxigen® a process of bipolar ionization that produces a sanitizing antibacterial effect through the activation of oxygen molecules, purifying the air from smells, bacteria, viruses and moulds.

Un fenomeno naturale, sorprendente ed efficace come la luce del sole. Questo è Bioxigen® un processo di ionizzazione bipolare che mediante l'attivazione delle molecole di ossigeno produce un'azione sanitizzante, antibatterica, purificando l'aria da odori, batteri, virus e muffe.



The result is a clear improvement of the air quality, of its healthiness and an increase of environmental comfort is perceived from all the people who spend the most of their days in indoor locations and in particular from individuals with respiratory problems (asthmatics).

Il risultato è un netto miglioramento della qualità dell'aria e della sua salubrità. L'aumento del comfort ambientale viene percepito da tutte le persone che trascorrono la maggior parte delle loro giornate in ambienti chiusi e in particolare da persone con problemi respiratori (asmatici).

BioXigen® is employed at the beginning in sensitive environments, such as hospitals and social welfare structures where the risk of nosocomial infections is high. The use of the technology has been extended to alimentary industry, highly controlled environment at microbiological level.

BioXigen® trova inizialmente applicazione in ambienti sensibili, quali ospedali e strutture socio-assistenziali dove è alto il rischio di infezioni nosocomiali. L'utilizzo della tecnologia si è esteso all'industria alimentare, ambito fortemente controllato a livello microbiologico.



Operating rooms
Sale operatorie



Appliances
Elettrodomestici



Food industry
Industria alimentare



Air Handling Units
Unità Trattamento Aria



Air ducts
Canalizzazioni



OEM
OEM



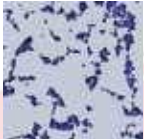
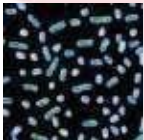
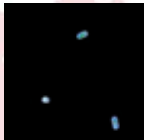
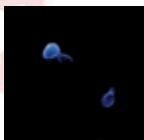
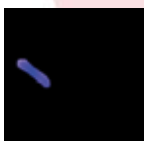
Water Treatment
Trattamento acqua

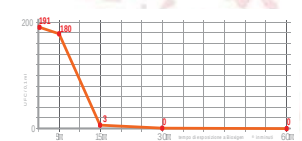
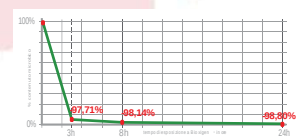
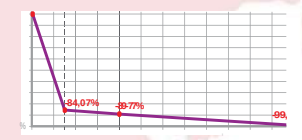
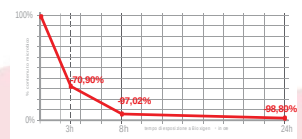
Now professional devices are adopted in civil buildings, hotels, shops and private residences or integrated in other devices. During the years the innovation has brought to define high quality materials and constructive characteristics to reproduce the best sanitization with low energy consumptions.

Ora dispositivi professionali sono adottati in edifici civili, alberghi, negozi e residenze private o inseriti in altre apparecchiature. L'innovazione ha portato negli anni a definire materiali di elevata qualità e caratteristiche costruttive per riprodurre la migliore sanitizzazione con bassi consumi energetici.

The effectiveness of Bioxygen[®] system has been verified in different fields from important Research Institutes and Universities, among them there are University of Padua (environmental **medicine department**), University of Udine (**alimentary science department**). Bioxygen[®] has obtained the validation of efficacy from the German authority TÜV Hessen.

L'efficacia del sistema Bioxygen[®] è stata verificata in diversi ambiti da importanti Istituti di Ricerca e Università tra i quali Università di Padova (dipartimento di **medicina ambientale**), Università di Udine (dipartimento di **scienze degli alimenti**). Bioxygen[®] ha ottenuto la validazione di efficacia dall'ente Tedesco TÜV Hessen.

Before Prima	After Dopo	Decrease microbial contents Abbattimento contenuto microbico	
		Staphylococcus aureus	
		Tempo Time — 3 h	-70,90 %
		Tempo Time — 8 h	-97,02 %
		Tempo Time — 24 h	-98,80 %
		Escherichia coli	
		Tempo Time — 3 h	-84,07 %
		Tempo Time — 8 h	-89,77 %
		Tempo Time — 24 h	-99,53 %
		Saccaromices cerevisiae	
		Tempo Time — 3 h	-97,71 %
		Tempo Time — 8 h	-98,14 %
		Tempo Time — 24 h	-99,05 %
		Legionella	UFC / 0,1 ml
		Controllo negativo Negative control	0
		Controllo positivo Positive control	191
		Dopo After — 05 min	180
		Dopo After — 15 min	3
		Dopo After — 30 min	0
		Dopo After — 60 min	0



Tested against COVID-19

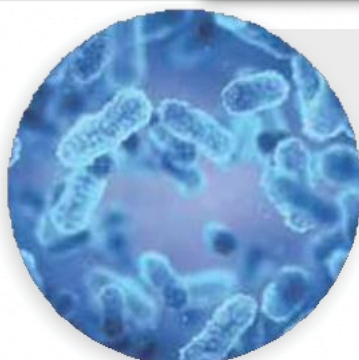
LabAnalysis de Med Bioxygen as "effective against all enveloped viruses (including the coronaviruses such as SARS-Cov-2)"
LabAnalysis di Pavia, ha definito Bioxygen: "efficace contro tutti i virus con involucro (inclusi i coronavirus come SARS-Cov-2)"



TÜV PROFI-CERT TÜV PRODUCT

Effectiveness validation of the system.
Validazione di efficacia del sistema.





Efficient antibacterial effect

Tests have shown more than 95% of destruction of microbial load on different gram (+) and gram (-) bacterial strains.

Efficace effetto antibatterico

Test hanno dimostrato più del 95% di abbattimento della carica microbica su diversi ceppi batterici gram (+) e gram (-).



An healthier environment: inactivation of moulds

Thanks to the oxidizing power of Bioxygen®, molds, spores, fungi and pollens are inactivated by improving the environmental comfort with the benefit for all the people who carry out their activities in indoor environments.

Un ambiente più sano: inattivazione di muffe

Grazie al potere ossidante di Bioxygen®, muffe, spore, funghi e pollini vengono inattivati migliorando il comfort ambientale con benefici per tutte le persone che svolgono le loro attività in ambienti chiusi.



Removal of smells and of the harmful pollutants present in indoor environments

Oxygen molecules activated by Bioxygen® attack the unpleasant smells deriving from cooking, from waste, from smoke etc. by disgregating the odorous substances into simpler compounds. Also the harmful volatile pollutants (VOC normally present in indoor environments) produced from paints, furnishings, detergents, are attacked by the active oxygen molecules generated by Bioxygen®.

Rimozione degli odori e degli inquinanti nocivi presenti in ambienti interni

Le molecole di ossigeno attivate da Bioxygen® aggrediscono gli sgradevoli odori da cottura, da rifiuti, da fumo ecc.. disgregando le sostanze odorigene in composti più semplici.

Anche gli inquinanti volatili nocivi (COV normalmente presenti negli ambienti chiusi) prodotti da vernici, suppellettili, detersivi, vengono aggrediti dalle molecole di ossigeno attivo generate da Bioxygen®.



More well-being and health for people

Bioxygen® improves the air quality that we breathe limiting not only the diseases of viral and bacterial origin vehiculated by air, but also the causes of many allergies with remarkable benefits for the respiratory apparatus. Studies show also other good for health effects tied to a balanced ionic concentration:

- Improvement of sleep quality
- Improvement of mood status
- Decrease of headache

Più benessere e salute per le persone

Bioxygen® migliora la qualità dell'aria che respiriamo limitando non solo le malattie di origine virale e batterica veicolate dall'aria, ma anche le cause di molte allergie con notevoli benefici per l'apparato respiratorio. Studi dimostrano anche altri effetti benefici sulla salute legati ad una bilanciata concentrazione ionica:

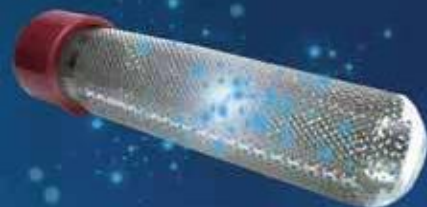
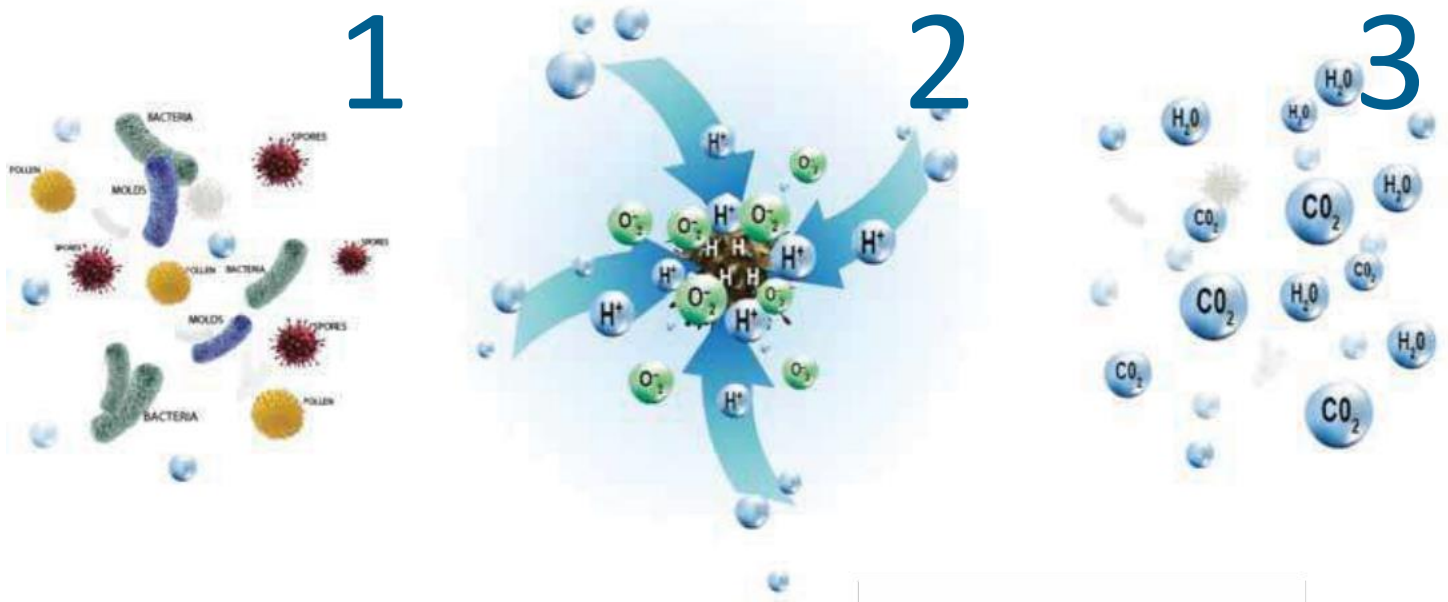
- Miglioramento della qualità del sonno
- Miglioramento dello stato d'animo
- Riduzione del mal di testa.



Ionization - Ionizzazione

The ionization phenomenon triggers reactions of oxidation-reduction on organic volatile compounds reducing the pollutants present in the environments in a calibrated and sizable way and with measurable effects. On the micro-organisms ionization causes damages to the cell membrane preventing their vital functions.

Il fenomeno di ionizzazione innesca reazioni di ossidoriduzione sui composti volatili organici riducendo gli inquinanti presenti negli ambienti, in modo calibrato, dimensionabile e con effetti misurabili. Sui microrganismi la ionizzazione provoca danni alla membrana cellulare impedendo le funzioni vitali degli stessi.



Home & Office



HOME

- > Living
Soggiorno
- > Kitchen
Cucina
- > Bathroom
Bagno

SHOPS

- > Fashion shops
Negozi fashion
- > Showroom
Showroom
- > Book stores
Librerie

OFFICES

- > Meeting rooms
Sale riunioni
- > Smoking rooms
Sale fumatori

Community



HEALTH CARE

- > Hospitals
Ospedali
- > Nursing home
Case di cura
- > Dentistry & medical
study
Studi medici e
dentistici

WELLNESS

- > SPA
Centri benessere
- > Hairdressers
Parrucchieri

FREE TIME

- > Meeting places
Luoghi di ritrovo
- > Cultural activities
Attività culturali
- > Schools
Scuole
- > Hotels
Settore alberghiero

Industry/ Food/ OEM



FOOD

- > Meat industry
Industria delle carni
- > Fruits and vegetables
Ortofrutta
- > Dairy farming, cheese
factory
Caseifici, industrie,
laboratori
- > Fish industry
Industria ittica
- > Fresh pasta production
Produzione pasta
fresca
- > Ready meal packing
Confezionamento
alimenti pronti

INDUSTRY

- > Factory farm
Azienda agricola
- > Pharmacy factory
Industria farmaceutica
- > Plastic and chemical
factory
Industria chimica e
plastica
- > Waste treatment
Trattamento esalazione
rifiuti
- > Restaurants and
catering
Ristorazione

OEM

- > Clean room
Camere bianche
- > Cold equipment
Celle e abbattitori di
temperatura
- > Cooking hood
Cappe aspiranti
- > Fan coil
Fan coil
- > Custom products
Prodotti su misura

Water treatment



FOOD

- > Food processing
water
Acque di processo

INDUSTRY

- > Fish industry
Itticoltura

SWIMMING POOL

- > Swimming pools &
ponds
Piscine e laghetti

Application chart Dimensionamento

 Home & Office	Tris	Maia	Sfera		
					
	Bedrooms Stanze da letto	from/da 35 to/a 40 m ³	from/da 70 to/a 100 m ³	from/da 40 to/a 80 m ³	
	Bathrooms Stanza da bagno	from/da 20 to/a 30 m ³	from/da 60 to/a 80 m ³	from/da 30 to/a 60 m ³	
	Studios Studio	from/da 30 to/a 40 m ³	from/da 60 to/a 90 m ³	from/da 30 to/a 60 m ³	
	Offices Uffici	from/da 30 to/a 40 m ³	from/da 60 to/a 90 m ³	from/da 40 to/a 80 m ³	
	Shops Negozi	from/da 25 to/a 35 m ³	from/da 50 to/a 80 m ³	from/da 20 to/a 60 m ³	
 Community	Maia	Sfera	Mistral	Mistral Maxxi	
					
	Waiting room Sale d'attesa	from/da 55 to/a 80 m ³	from/da 20 to/a 65 m ³	from/da 180 to/a 280 m ³	from/da 280 to/a 420 m ³
	Dentist's surgeries Studi dentistici	from/da 55 to/a 80 m ³	from/da 20 to/a 65 m ³	from/da 180 to/a 280 m ³	from/da 280 to/a 420 m ³
	Libraries Biblioteche	from/da 60 to/a 90 m ³	from/da 20 to/a 60 m ³	from/da 180 to/a 260 m ³	from/da 260 to/a 400 m ³
	Hairdressing salons Saloni parrucchiere	from/da 55 to/a 80 m ³	from/da 20 to/a 65 m ³	from/da 180 to/a 280 m ³	from/da 280 to/a 400 m ³
	Public toilets Bagni pubblici	from/da 40 to/a 70 m ³	from/da 20 to/a 40 m ³	from/da 150 to/a 230 m ³	from/da 230 to/a 350 m ³
 Industry	Maia	Mistral	Mistral Maxxi	Purho F2V	Purho F4V
					
	Refrigerated units Banchi frigo Cold rooms Celle frigorifere	from/da 1 to/a 1,75 ml			
	Product processing rooms Sale lavorazione prodotti Cellars Cantine	from/da 15 to/a 30 m ³	from/da 90 to/a 180 m ³	from/da 150 to/a 290 m ³	from/da 200 to/a 450 m ³
		from/da 40 to/a 60 m ³	from/da 120 to/a 200 m ³	from/da 180 to/a 280 m ³	from/da 350 to/a 450 m ³
		from/da 25 to/a 30 m ³	from/da 140 to/a 220 m ³	from/da 240 to/a 340 m ³	from/da 400 to/a 500 m ³
				from/da 500 to/a 700 m ³	

[*] The unit volumes used are just an indication and can vary, even considerably, according to the quality of the air and the load in the volume to be treated.
 [*] I volumi unitari di impiego sono indicativi e possono variare, anche ampiamente, in dipendenza della qualità dell'aria e del carico presente nel volume da trattare.



Accutrol AVC Fume Hood Control System

The award-winning Accutrol AVC Fume Hood Control System with Accutrol Insight graphical software provides an unprecedented evolution in fume hood control technology. It significantly simplifies the start-up, operation and modification for VAV fume hoods.

The Accutrol AVC Fume Hood Control System combines the award-winning design of the low pressure drop AccuValve® Airflow Control Valve with a "smart" fume hood display and a powerful and intuitive user interface. This innovative combination allows owners to easily set up and change the fume hood configuration without complicated manuals.

Applications

- University research and development
- Life science
- Pharmaceutical
- Biotech
- Healthcare laboratories
- Secondary school laboratories
- Retrofit applications

Features & Benefits

- Integral operation with low pressure drop AccuValve®
- Visual/Audible indication with flow, alarm and purge
- Provides text alarm messages on display
- Purge set point is programmable
- Up to 4 user-defined setback sequences
- Optimized energy savings
- Simple installation and wiring
- Simplified set-up (no menus)
- Intuitive graphical user interface using our Insight software



The award winning AccuValve is designed for sustainable critical environments with very low pressure drop for energy savings and safety through true airflow measurement. The AccuValve was introduced as the first critical environments airflow control valve designed for use with electronic actuation.

- **Low Pressure Drop**
- **True Air Flow Measurement**
- **No Straight Run Requirement**
- **Simple Layout & Installation**
- **ASHRAE Standard 90.1 Compliant Without Additional Hardware**

For Fast Speed of Response



AccuValve Model AV3000

- Fast Speed of Response (lab and critical Spaces)
- Supply, General Exhaust, Specialized Exhaust
- Universal I/O (for closed loop control through Accutrol controller or BAS controller)



AccuValve Model AVC5000 (AccuValve with ePI)

- Fast Speed of Response (lab and critical Spaces)
- Fume Hoods
- Supply, General Exhaust, Specialized Exhaust
- Constant Volume. Multi-position Constant Volume
- Stand-Alone Closed Loop Control (or set point control through Accutrol controller or BAS controller)
- Native BACnet® Communication

For Standard Speed Actuation



AccuValve Model H-AV3000

- Standard Speed (healthcare and life science support spaces)
- Supply, Return, General Exhaust, Specialized Exhaust
- Universal I/O (for closed loop control through Accutrol controller or BAS controller)



AccuValve Model H-AVC5000 (AccuValve with ePI)

- Standard Speed (healthcare and life science support spaces)
- Supply, Return, General Exhaust, Specialized Exhaust
- Constant Volume. Multi-position Constant Volume
- Stand-Alone Closed Loop Control (or set point control through Accutrol controller or BAS controller)
- Native BACnet® Communication



*VorTek G3 Duct
Airflow Measurement Probes*



*VorTek G3 Fan Inlet
Airflow Measurement Probes*

Digital Airflow Sensing
Modular Design
Intuitive User Interface
Stable - Drift Free
Resistant to Contamination
Not Affected by Humidity

Not Affected by Temperature
Not Affected by Altitude
Linear Over Entire Range
Low Power Requirements
Universal Voltage and Current Output
Native BACnet MS/TP Optional



*IAQ-Tek Outdoor
Air Volume Measurement System*

Simple Installation
Operates over -40° to 120° F
Probes require minimal straight runs of duct
Setup Wizard
Resistant to Contamination



Airflow Products



Accutrol provides a complete line of controllers to maintain precise airflow and temperature conditions. Applications include critical environments such as laboratories, healthcare and life science support spaces.



Laboratory Airflow Control

Laboratory Airflow Control

Laboratory airflow control and large space critical environment control through high-speed, native BACnet room controllers can be easily programmed to maintain precise airflow, temperature and humidity conditions.

Support Space Control

Support space control and smaller space airflow and temperature control through dedicated native BACnet room airflow and temperature controller.



Support Space Control



Healthcare Space Control

Healthcare Space Control

Healthcare space control or control of areas such as operating rooms, isolation rooms and patient rooms for precise room airflow and temperature control. The Accutrol HealthTrack Room Controller is specifically designed for these spaces and provides BACnet interface to the building automation system.

Room & Duct Temperature Sensor

Accutrol provides a complete line of controllers to maintain precise airflow and temperature conditions. Applications include critical environments such as laboratories, healthcare and life science support spaces.



Room Temperature Sensor RTS 100

The Accutrol RTS100 Series includes wall mounted Room Temperature Sensors and combination Room Temperature/Humidity Sensors. Options include temperature setpoint adjustment slider as well as manual override switch where required. The RTS100 Series Sensors are designed to be used with Accutrol AC7000 Series Controllers, Accutrol HTC100/RTC100 Room Temperature Controllers and BAS Controllers.



Duct Mounted Temperature Sensor DTS 100

The Accutrol DTS100 Duct Mounted Temperature Sensor is designed to be used with the AC7000 Series Controllers as well as the HTC100 and RTC100 Room Temperature Controllers. The DTS100 is a duct mounted series 10K Ohm, Type III thermistor designed for measurement of duct temperature in the discharge of a reheat coil or in the

Room Pressure Monitor



SRPM



SRCM

Applications for use of the Accutrol line of pressure monitors include healthcare, pharmaceutical manufacturing, cleanrooms, research laboratories and animal resource facilities



14.4 MEDICAL GAS PIPELINE SYSTEM



PRECISION UK Ltd

Specialists in HTM02-01 Medical Gas Pipeline Equipment



Precision UK Ltd is a British Manufacturer and World Leader in supplying Medical Gas Pipeline equipment compliant with HTM 02-01, c11 and BS En 7396. With over 40 years combined experience of company staff within the medical gas pipeline industry, Precision UK Ltd and its products recognise and embrace the specialist requirements of this industry to include all aspects of customer service, product design, cleanliness, packaging and usability required to become a successful partner for installations of pipeline equipment.

We truly are the only British Company accredited to BSI ISO 9001, ISO 13485 and 93/42/EEC The Medical Device Directive, that offers the complete range of medical gas pipeline equipment from its own manufactured stock.

All products certified as medical devices carry the CE mark and are registered with the British Standards Institute. Core products include Degreased Copper Tube and Fittings, Lockable Line Valves, Nist Pieces, Silver Solder, Pipeline Identification Tape, Munsen Ring Brackets, Area Valve Service Units (AVSU) Single and Modular, Area and Plant Alarms, Pressure Switch Assemblies and Rigid/Retractable Pendants. Our extending product range include Medical Air Plant, Medical Vacuum Plant, AGSS Plant, Gas Manifolds and Medical Gas Outlets, all compliant to British and European Directives.

BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

Specialists in the complete range of HTM02-01, C11 & BS EN 7396 Medical Gas Pipeline Systems



Contents



PRECISION UK Ltd 

Specialists in HTM02-01 Medical Gas Pipeline Equipment

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

BUILDING ON FAMILY LEGACY OF



G. Samaras S.A.
MEDICAL GAS SYSTEMS

14.S MEDICAL GAS PIPELINE SYSTEM



G. Samaras
MEDICAL GAS SOLUTIONS



**BUILDING ON FAMILY LEGACY OF
EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN**

**MORE THAN
2500 PROJECTS
ALL OVER
THE WORLD**

A whole world of technical excellence

**since
1968**



..... GREECE ALBANIA ALGERIA ANGOLA BOSNIA AND HERZEGOVINA BRASIL • BULGARIA • CAMBODIA • CYPRUS • CZECH REPUBLIC • EGYPT • FINLAND • FYROM • GEORGIA • GHANA
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ABOUT OUR COMPANY

G. SAMARAS S.A. is an international manufacturing company located in Thessaloniki, Greece. Having been active in the medical gas field since 1968, the company has a track record of continuous evolution and development. G. SAMARAS S.A. has become the leader in the Greek medical gas supply systems market, in which it holds more than 85% of the share. From the very beginning, G. SAMARAS S.A. recognized the importance of international growth. Thus, the company has managed to achieve a broad exports activity and network and, consequently, an extensive worldwide reference list. Having professionalism, reliability, solvency and flexibility as its key principles and guidelines, the company has gained not only valuable experience, but also strong domestic and international recognition and

reputation. Its strong know - how of medical gas supply systems and the durability of its products, has led the company to a strong market position. G. SAMARAS S.A. holds a very wide service and product portfolio, which is characterized by completeness, quality and a high degree of customization on everything related to medical gas supply systems. The company's 2 facilities occupy a building of 4000 m in the Industrial Area of Themi, Thessaloniki (Northern Greece). The company's skilled personnel consists of electrical and mechanical engineers, graduate and post-graduate economists, as well as licensed welders and electricians, who constitutes the driving force of the company.

WHY G. SAMARAS S.A.?

- More than 50 years of experience and expertise
- Extensive product portfolio
- High quality of services and products
- Know - how on everything related to medical gas supply systems
- Flexibility to every medical gas solution
- Well - trained and skilled personnel
- Competitive pricing
- Short delivery times
- Raw materials and spare parts availability
- Ease of use
- Remote control and monitoring
- Highly - responsive after sales service and customer - focused support
- Conformity with all standards
- CE marked products

BUILDING ON FAMILY LEGACY OF

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

14.S MEDICAL GAS PIPELINE SYSTEM



MEDICAL GAS NETWORK

- Copper pipes
- Copper parts (elbows, tees, couplings)
- Brass parts (nipples, elbows, caps, unions, adapters)
- Clamps
- Railways
- Tapes
- Welding materials
- Shut off/electromagnetic/non-return/safety valves
- Antistatic tubes
- Special tools



CYLINDER STATIONS

Their purpose is to reduce the pressure of medical gases originating either from cylinders or vessels. Their operation could be pneumatic, electrical or manual, the available capacities of reducers are 50/75/160/170/180m³/h (440m³/h only for vessels) whereas the outlet pressure could be between 4 and 8bar. Optionally they may include integrated medical gas alarm panel

- Manifolds-cylinder ramps
- Cylinder holders
- High pressure evacuation valves
- High pressure flexible tubes
- Pigtails
- Cylinders
- Vessels.



PATHOLOGY LABORATORY GAS SYSTEMS

According to Health Technical Memorandum (HTM 08-06), all laboratory gas systems should be discriminated from medical systems. For toxicity, flammability, corrosiveness and safety factors, those systems are being manufactured according to specific standards and from special materials.



MEDICAL VACUUM SYSTEMS

Our company manufactures medical vacuum systems according to each project's specifications.

- Vacuum pumps (oil-lubricated/oil-free) of nominal capacity 6-635m³/h
- Vessels (vertical/horizontal) of capacity 270-5.000lt
- Antibacterial filters 48-900m³/h
- Electrical control panels



MEDICAL AIR COMPRESSOR SYSTEMS

Our company manufactures medical air compressor systems according to each project's specifications

- Compressors (screw/scroll/piston), oil-lubricated or oil-free of nominal capacity 4-2500m³/h
- Vessels (vertical/horizontal) of capacity 50-5.000lt
- Filters/sterile filters
- Condensate separators/aftercoolers
- Dryers (cooling/adsorption/membrane)
- Condensate drains
- Water/oil separators
- Electrical control panels

PRODUCT PORTFOLIO



OXYGEN-NITROGEN GENERATORS

Pressure Swing Adsorption (PSA) is a low power consuming solution, efficient and reliable for onsite production of high purity medical oxygen. It uses the basic principle of passing air over adsorbent material which bound with nitrogen to leave rich stream of oxygen. Our company provides various solutions according to the size and needs of each hospital.



ANAESTHETIC GAS SCAVENGING SYSTEMS

The suction and disposal to the environment of the redundant gases from the anesthetic equipment inside the operating theatres but also from the emitted anesthetic gases from patients in the stage of recovery, is being applied by using an automatic anesthetic gas scavenging disposal system (AGSS), through the AGSS outlets which are installed in various departments. Available solutions:

- Central systems of capacity 40-330m³/h
- Autonomous scavenging outlets
- Venturi apparatus



MEDICAL GAS TERMINAL UNITS / OUTLETS

Outlets are installed at the final delivery points in a medical gas pipeline system. They are used by personnel to supply the various gases using special probes. They are available in accordance with the following norms:

- ENV 737-6
- AFNOR NF S 90-116
- DIN 13260-2
- BS 5682
- SS 875 24 30
- ISO 9170-2
- SANS 1409:2008
- UNI
- NIST EN 739



SECOND STAGE CONTROL AND REDUCER PANELS / AREA VALVE SERVICE UNITS

Installed in wards in order to ensure normal pressure of the medical gases and provide the ability to shut off, check and maintain the local medical gas network. Provided for 1-6 gases with or without medical gas alarm panel.



MEDICAL GAS ALARM SYSTEMS

The monitoring and alarm systems are used to provide all the important information to the control room. They indicate the pressure level of each gas (Low, Normal, High) whereas they can supply with information about a single medical station. Moreover, they are able to send useful data to a remote user.

PRODUCT PORTFOLIO

BED HEAD UNITS

Their aim is to provide all essential services (medical gases, electrical supply, lighting, nurse call, data, etc.) to the patient / nurse / doctor.
G. Samaras SA has a broad range of models in horizontal / vertical / round / ceiling suspended configuration able to cover all needs of each single department.

CEILING PENDANT ARMS

The ceiling pendants are being placed on the ceiling of intensive care units and operating theaters for grouping and providing all necessary electrical, data and medical gases services to the medical staff. They are available in various configurations and according to each project's needs.

- Without arm
- With one arm
- With two arms
- With electrical movement (one/two arms)
- With electrical-telescopic movement

OPT CONTROL PANELS

OPT Control Panel, is the central device gathering all necessary control signals, alarms and information required in an Operating Theater.

NURSE CALL SYSTEMS

The nurse call system is installed in a nursing unit. It helps patients/relatives/nurses/doctors to call a nurse in case of an emergency or any other need of a patient. Typically they are consisted of:

- Central station
- Handsets
- Room stations
- WC pull cords
- Corridor lights

SECONDARY MEDICAL EQUIPMENT

- Hospital clocks
- Flowmeters
- Vacuum regulators
- Suction devices
- Carts
- IV stands
- Anaesthesia machines
- Pneumatic tube systems
- Emergency lighting-Fire detection-Gas detection systems
- OPT tables
- Hospital beds/cabinets
- OPT - Examination lights

Distech Control's building management system provides a complete, integrated solution for HVAC, Lighting, Access Control, CCTV, and Energy Management, achieving over 30% energy and operational cost savings. Designed to meet the highest standards of green stewardship and durable performance, our open solutions provide not only a competitive advantage today, but sustainability tomorrow and beyond.



Efficient Building Automation System

Reduce energy cost and manage your BAS

- ▣ Controlling & monitoring
- ▣ Scheduling
- ▣ Alarming
- ▣ Identify Consumption

Reduce operational costs

- ▣ Effective knowledge
- ▣ Predict failures
- ▣ Manage servicing
- ▣ Identify costs



1S.0

OTHER PROJECT REFERENCES



OTHER PROJECT REFERENCES

15.1 FIRE FIGHTING SYSTEM

No.	Clients	Projects / Work Description
1.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Kudat , Kota Marudu, Kota Belud, Tuaran, Queen Elizabeth, Bukit Padang and Papar.
2.	Faber Mediserve	Fire Fighting System consist of RPPU, Fire Alarm System, Hose Reel, Dry Riser / Wet Riser, Sprinkler System, CO2 System, Fire Tank, Fire Pump, Diesel Engine, Fire Extinguisher System and Fire Certification.
3.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1H) at Ranau, Tambunan, Keningau, Tenom, Beaufort, Sipitang and Labuan.
4.	Faber Mediserve	Fire Fighting System consist of RPPU, Fire Alarm System, Hose Reel, Dry Riser / Wet Riser, Sprinkler System, CO2 System, Fire Tank, Fire Pump, Diesel Engine, Fire Extinguisher System and Fire Certification.
5.	Hospital Besar Kuala Lumpur	Proposed Fire Protection Services Installation at General Hospital Kuala Lumpur for Sprinkler System and Fire Alarm System.
6.	Hospital Besar Kuala Lumpur	Cadangan Tambahan dan Ubahsuai Sistem Pencegah Api bagi 'Drug & Pharmaceutical Store / Office & Flammable Liquid Store' Di Atas Hospital Besar (South Ward Block) Kuala Lumpur – CO2 System.
7.	Syarikat Federal Api	Cadangan Merekabentuk, Membina dan Menyiapkan Projek Sek. Keb. Taman Prima, Gombak, Kuala Lumpur untuk Kementerian Pendidikan Malaysia.
8.	Syarikat Federal Api	Cadangan Membina Sebuah Kilang beserta Pejabat 3 Tingkat di Lot 15, Jalan U1/15, Sek. U1, Shah Alam.
9.	Hospital Universiti Sains Malaysia	Upgrading of Fire Fighting System at UPS and Battery Room. (Total Flooding System – Pyrogen)

OTHER PROJECT REFERENCES

15.1 FIRE FIGHTING SYSTEM

No.	Clients	Projects / Work Description
10.	Radicare, Raub	Supply and replace Fire Fighting Equipment at Hospital Raub.
11.	Hospital Besar Kuala Lumpur	Penyelenggaraan Sistem Pencegah Kebakaran (Fire Alarm System)
12.	Radicare Blood Bank	Fire Fighting PPM System Works, Replace Smoke Detector (Basement), Pump Room, and Genset Room.
13.	Radicare Putrajaya	Dismantling of Manifold and Auto changeover from Regulator, Service Manifold and re-Setting Alarm Panel.
14.	Radicare Banting	Service and Refill Fire Extinguisher Unit
15.	Radicare IMR	Check and and recify the fault fire alarm panel, including control cards, electronic components, zoning cards battery chargesunit and to make sure that the system is in good condition. For the following panel:- Guard Post, Administration Building, Kolej TMP, New Collage, Library and Monaklonal, Library and Parasite, Museum of Biomedical and Canteen.
16.	Syarikat Federal Api	Cadangan Membina Sebuah Kilang beserta Pejabat 3 Tingkat di Lot 15, Jalan U1/15, Seksyen U1, Shah Alam.
17.	Hospital Universiti Sains Malaysia	Upgrading of Fire Fighting System at UPS and Battery Room. (Total Flooding System – Pyrogen)
18.	Radicare Raub	Supply and Replace Fire Fighting Equipment at Hospital Raub
19.	Hospital Kuala Lumpur	Penyelenggaraan Sistem Pencegah Kebakaran (Fire Alarm System)
20.	Radicare Blood Bank	Fire Fighting PPM System Works. Replace Smoker Detector (Basement), Pump Room and Genset Room.

OTHER PROJECT REFERENCES

15.1 FIRE FIGHTING SYSTEM

No.	Clients	Projects / Work Description
21.	Radicare Putrajaya	Dismantling of manifold and autochangeover from regulator, service manifold and re-setting alarm panel.
22.	Radicare Banting	Service and refill fire extinguisher unit
23.	Radicare IMR	Check and rectify the fault fire alarm panel, including control cards, electronic components, zoning cards battery charges unit and to make sure that the system is in good condition. For the following panel:- Guard Post, Administration Building, Kolej TMP, New Collage, Library and Monaklonal, Library and Parasite, Museum of Biomedical and Canteen.
24.	Radicare IMR	Service and renew BOMBA certification for the following Portable Fire Extinguisher.
25.	SN Akmda	Fire Protection Project at Kem PGA, Gong Badak, Terengganu
26.	Radicare Hospital Kuala Lumpur	- Modification of GI Pipe including additional coupling assemblies, leak thread replacement and civil works. - Supply and deliver 30' – 1/2" Grey P.V.C Dusting Hose - Supply and Install Grundfos Vertical in Line Pump - Supply & Install 10" Paper Layer Filter Joint New Water Pipe at V.I.E Urology Supply - Install water filter system
27.	Medilaund (Radicare Teluk Panglima Garang – Centralised Laundry)	- Supply, delivery, install, testing and commissioning of process piping and ancillary equipment for the proposed centralized laundry plant, Teluk Panglima Garang Industrial Estate, Steam Supply and Install Water Filter & Condensate return piping & installation. - FRP water storage tank - Pumping system (6 units of KSB pump with inverter and auto control)
28.	Hospital Kuala Lumpur	Supply and Install of Water Storage Tank (Replacement) - Roltank Water Storage Model RT6 (6000 gallons)
29.	Hospital Kuala Lumpur	Supplying, installing and testing decoration lamp, X-mas lights and spotlights.

OTHER PROJECT REFERENCES

15.1 FIRE FIGHTING SYSTEM

No.	Clients	Projects / Work Description
30.	Majlis Perbandaran Subang Jaya	Proposal for supplying and installing lights at housing area in Taman SS 18/5A Subang Jaya.
31.	Majlis Perbandaran Subang Jaya	Proposal for supplying and installing lights at housing area in Seri Puchong 1, Taman Seri Puchong.
32.	Majlis Perbandaran Subang Jaya	Proposal for supplying and installing lights at housing area in Jalan Merak 1, Bandar Puchong Jaya, Puchong.
33.	Majlis Perbandaran Subang Jaya	Proposal for supplying and installing lights at housing area in Puchong Perdana.
34.	Majlis Perbandaran Subang Jaya	Upgrading street lights and other works at Jalan 17/21, Seksyen 17, Petaling Jaya.
35.	Majlis Perbandaran Subang Jaya	Upgrading Light System at Jalan Tujuan, Subang Jaya.
36.	Majlis Perbandaran Subang Jaya	Supplying and Installing Spotlight at Subang Jaya Playground.
37.	Majlis Perbandaran Subang Jaya	Supplying and Installing Garden Lamp at all spacious area at Subang Jaya and Kinrara in MPSJ.
38.	Majlis Perbandaran Subang Jaya	Installing Spotlight for Futsal Arena at Jalan SS18/30 and Jalan USJ 5/34.
39.	Majlis Perbandaran Subang Jaya	Installing Spotlight for Garden at Jalan SS2/23, Petaling Jaya.

OTHER PROJECT REFERENCES

15.1 FIRE FIGHTING SYSTEM

No.	Clients	Projects / Work Description
40.	Majlis Perbandaran Subang Jaya	Supplying Spotlight Lamp Post (8m Height) with 4 lamps, (each 250W) at Sun Subang Jaya.
41.	Majlis Perbandaran Subang Jaya	Supplying Spotlight Lamp Post (8m Height) with 4 lamps, (each 250W) at Sun Subang Jaya.
42.	Majlis Perbandaran Subang Jaya	Supplying Spotlight Lamp Post (8m Height) with 4 lamps, (each 250W) at Sun Subang Jaya.
43.	Majlis Perbandaran Subang Jaya	Supplying Spotlight Lamp Post (8m Height) with 4 lamps, (each 250W) at Sun Subang Jaya.
44.	Majlis Perbandaran Subang Jaya	Supplying 6 Electrical Lamp Post with 250W lamp at Basketball Arena at Taman SS18/4, SS 17 and USJ 1.
45.	Pusat Pembedahan Katarak	Design, Supply, Deliver, Install, Testing and Commissioning Fire Protection System.

OTHER PROJECT REFERENCES

15.2 TELEPHONE, KEYPHONE & PABX SYSTEM

No.	Clients	Projects / Work Description
1.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1G) at Hospital: i. Kudat ii. Kota Marudu iii. Kota Belud iv. Tuaran v. Queen Elizabeth vi. Bukit Padang vii. Papar Scope & System Under Supervision: i. Air Conditioning System ii. Lift iii. Fire Fighting iv. Building Automation System (BAS) v. Water Treatment vi. Medical Gas vii. PABX viii. Boiler
2.	Faber Mediserve	Hospital Building & Facilities Maintenance for Hospital Support Services (Package 1H) at Hospital: i. Ranau ii. Tambunan iii. Keningai iv. Tenom v. Beaufort vi. Sipitang vii. Labuan Scope & System Under Supervision: i. PABX ii. Boiler iii. Lift iv. Fire Fighting v. Air System vi. Water Treatment vii. BAS

OTHER PROJECT REFERENCES

15.2 TELEPHONE, KEYPHONE & PABX SYSTEM

No.	Clients	Projects / Work Description
3.	Hicom Properties Sdn Bhd	Cadangan Membekal, Memasang, Menguji Serta Mentauliah Perkhidmatan Infrastruktur Telefon bagi Pembangunan Bercampur Taman Hicom Pagoh (Fasa 1) Mukim Pagoh, Daerah Alor Gajah, Melaka
4.	Pusat Pembedahan Katarak	Supply & Install Isolated System (IPS) or IT System for each OT Room

15.3 GENERATOR SET

No.	Clients	Projects / Work Description
1.	Kementerian Kesihatan Malaysia	The Design, Upgrade, Construction and Commissioning of Generator Set and Associated Works at Maternity Hospital Pulau Pinang.

15.4 BUILDING WIRING SYSTEM

No.	Clients	Projects / Work Description
1.	JKR Selangor	Kerja-kerja Pendawaian Semula di SK Tun Abdul Razak, Daerah Hulu Selangor, Selangor
2.	JKR Selangor	Kerja-kerja Pendawaian Semula di SK Kerling, Daerah Hulu Selangor, Selangor
3.	JKR Selangor	Kerja-kerja Pendawaian Semula di SMK Soeharto, Daerah Hulu Selangor, Selangor
4.	JKR Selangor	Kerja-kerja Pendawaian Semula di SK Kuala Kubu Bharu, Daerah Hulu Selangor, Selangor
5.	JKR Selangor	Kerja-kerja Pendawaian Semula di SK Ulu Yam, Daerah Hulu Selangor, Selangor

OTHER PROJECT REFERENCES

15.5 TRAFFIC CONTROL SYSTEM

No.	Clients	Projects / Work Description
1.	Majlis Perbandaran Subang Jaya	The Design, Upgrade, Construction and Commissioning of Generator Set and Associated Works at Maternity Hospital Pulau Pinang.

15.6 CCTV

No.	Clients	Projects / Work Description
1.	Billion Network	Supply and Install 8 Cameras in Warehouse.
2.	Arensi Marley	Supply and Install 16 Cameras in Warehouse and Office.
3.	Vincenzo Italiano Restaurant	Supply and Install 4 Cameras.
4.	Hideki Japanese Restaurant	Supply and Install 4 Cameras.
5.	Filtration Technology	Supply and Install 16 Cameras for Workshop.
6.	Pusat Pembedahan Katarak	Supply and Install Complete to Monitor Waiting Area, Entrance and Main Entrance from Reception Counter.
7.	Jabatan patologi Hospital Miri	Cadangan Menaiktaraf Jabatan Patologi Hospital Miri ke Makmal Perubatan Zon Utara Tengah.

16.0

CENTRAL WAREHOUSE, MACHINERIES & TOOLS



16.0 CENTRAL WAREHOUSE, MACHINERIES & TOOLS

16.1 CENTRAL WAREHOUSE

The warehouse is dedicated to store all fast moving items for all sites operation whether it is for facility maintenance sites and for project sites.



The dual level 22' x 75' shoplot has been renovated with proper industrial standard racking system. There is also another 1 level for 'junk' warehouse storing all other parts for project cost control and fast delivery to sites.



16.0 CENTRAL WAREHOUSE, MACHINERIES & TOOLS

16.1 LIST OF STOCK

CIVIL (USED)

- BATU 3/4
- BOTTLE TRAP PVC
- BRACKET BENDERA DINDING
- DOOR CLOSER
- KANVAS
- KEPALA PAIP PVC
- KEPALA PAIP TOMBOL PLASTIC BULAT TRIP BAWAH
- KEPALA PAIP TOMBOL CHROME BULAT TRIP DINDING
- TILE PINK 8" X 8"
- TILE LIGHT BROWN
- PASIR
- SIMEN
- SINKI BASUH TANGAN PUTIH
- TOILET LID
- PENYAPU LIDI
- SWAN PAIP
- DOUBLE TAP SWAN PAIP
- SWAN NECK
- KEPALA PAIP TOMBOL BULAT CHROME TRIP BAWAH
- KEPALA PAIP PULAS CHROME TRIP DINDING
- KEPALA PAIP JENIS LEFT TURN ON
- PVC STOP END 1 1/2
- PVC ELBOW PAIP 1 1/2
- PVC PAIP SOCKET 20MM x 1/2
- PVC T SOCKET 3/4
- PVC ELBOW PAIP 2
- PVC T SOCKET 3/4 (USED)

CONSUMABLES

- ALUMINIUM TAPE
- ALUMINIUM ZINK
- AUTOSOL
- ALUMINIUM CLEANER
- BRAZING ALLOY/ROD
- BRASS FLUX
- BLACK TAPE
- CAT KILAT (MERAH)
- CAT KILAT
- CAT (Y BASE)
- CAT (SUNDE)
- CAT (RUSTIC) TUNGOLAC
- CAT (RUST)
- CAT (RUSSET)
- CAT (PUTIH) 18 LITRE
- CAT (MERAH) 5 LITRE
- CAT (MARINE BLUE)
- CAT (MAHOGANY)
- CAT (KUNING)
- CAT (GRAY) 5 LITRE
- CAT (DEEP) (1 LITRE)
- CAT (CANDLEGLOW)
- CAT (BLUE)
- CAT (BLUE CONIFER)
- CAT (BLACK) 1 LITRE
- CAT (BAR RUST BASE)
- CAT (ALUMINIUM)
- CLIP HOSE 35MM-51MM
- CLIP HOSE 23MM-32MM
- CLIP HOSE 16MM-22MM
- CLIP HOSE 19MM-25MM
- COPPER ROD
- CLIP HOSE 13MM-16MM
- CEILING FAN HOOK
- CABLE TIGHT
- DAWAI
- DUCTING ALUMINIUM FOIL
- ENSEL PINTU KECIL
- ENSEL PINTU BESAR
- EAR LOCK
- ELECTROD WELD
- GAS R134 A
- GAS R12
- GREASE
- GETAH DOOR STOPPER
- GAM PAIP
- GAM DUNLOP
- GABUS (BROWN)
- G.I ZINK
- G.I WALL HOOK PIPE
- GAS R22
- HIGH VACUUM PUMP OIL
- IRON CUTTER BLADE 12"
- INTERGAL WATERPROOFER
- KERTAS PASIR
- LATEX MORTAR ADDITIVE
- MATA GERGAJI BESI
- MATA GRENDER KERTAS PASIR
- MATA GRENDER PEMOTONG BESI
- MATA GRENDER PEMOTONG SIMEN
- MATA RIBET
- METAL POLISH
- MULTI LUBE 100
- MAPP GAS
- NAT 11
- NAT 12
- NAT 13
- NAT 15
- NAT 10
- PAKU PAYUNG
- PAKU KAYU 1"
- PAKU KAYU 2"
- PAKU BATU KECIL

CONSUMABLES

- PAKU BATU BESAR
- PASTE WAX
- PELUNTUR
- PUTTY FILLA
- PVC SOKET 3/4"
- RACUN SERANGGA
- ROD SILFOCE
- RUBBER BUSH
- RACUN
- SKRU 1"
- SKRU 1 1/2"
- SKRU 2"
- SKRU ALLENKEY
- SKRU ALLENKEY 2 1/2"
- SKRU SAMBUNG TRUNKING
- SPORT RIM NAT
- SILICONE
- SHADERING FLUX
- SELAK PINTU ALUMINIUM
- SELAK PINTU
- SKRU ALLENKEY 1 1/2"
- SKRU ALLENKEY 1/2"
- SKRU BASE LAMPU JALAN
- TALI
- TALI NYLON
- THINNER
- U CLIP CABLE ROAD 16"
- U BRACKET 2"
- U CLIP CABLE ROAD 8"
- WALL PLUG BESI 3/8
- WALL PLUG BESI 1/4
- WALL PLUG BESI 5/16
- WASHER
- WOOD FILL
- WALL PLUG PARTITION
- WALL PLUG PLASTIK
- WAYAR ROD
- WD-40
- WHITE TAPE
- WALL PLUG KAYU
- CAT PROTECTIVE COATING
- 1460 FERN GREEN
- CAT PROTECTIVE COATINGS HARDENER
- CAT TIMBER FINISH T 108
- ROSEWOOD
- CAT (HITAM)
- CAT 3044 GOLDEN BROWN
- CAT 9102 WHITE
- CAT PU TIMBER SEAL 100 (VARNISH)
- CAT BRIGHT GOLD (KUNING)
- CAT 116 SUEDE
- CAT STRAX (KUNING)
- CAT SUPER GLO (WHITE 9102)
- CAT SUPER GLO
- (SIGNAL RED 6613)
- CAT (BROWN)
- CAT (WHITE)
- CAT (GREY)
- CAT (1145 WHITE)
- CAT SUPER GLO (NEPTUNE)
- CAT PIONEER 200 (PUTIH)
- CAT MATEX (CORAL BRUSH)
- CAT SUPER MATEX (PEACH 568)
- CAT SUPER MATEX (872 GREEN TEA)
- CAT WEATHERBOND PLUM PINK PASTEL
- SKIM WOOD FILLA (NATURAL)
- ANCHOR 3/8 x 12
- ANCHORS 5/16 x 10
- MATA PEMOTONG KAYU
- BERUS DAWAI
- BERUS PLASTIK
- ADJUSTABLE HOOK
- SKRU TAPPING KECIL
- BOLT NUT 8
- SKRU SUI/SOKET
- SPOT RIM NUT
- SKRU PUTIH 1/2"
- PAKU BATU 16MM
- SKRU TAPPING 1"
- SKRU HITAM
- FLARE NUT 1/4"
- U CLIP CABLE 35MM
- U CLIP CABLE 10MM
- U CLIP CABLE 22MM
- BRACKET FIRE FIGHTING
- PAKU 16MM
- CABLE 1 ARM CLAMP 16
- CABLE 1 ARM CLAMP 8
- ALUMINIUM CABLE 4 CORE 25MM
- BALLAST 18W
- BLADE FAN (GREY)
- BLADE FAN (WHITE)
- BULB PLC 18W
- CABLE 1.5MM RED
- CABLE 1.5MM YELLOW
- CABLE 1.5MM BLUE

ELECTRICAL GENERAL

(USED)

- CABLE 1.5MM BLACK
- CABLE 1.5MM GREEN
- CABLE 2.5MM RED
- CABLE 2.5MM YELLOW
- CABLE 2.5MM BLUE
- CABLE 2.5MM BLACK
- CABLE 2.5MM GREEN
- COVER DOWN LIGHT
- COVER LAMP DOWN LIGHT
- COVER LAMPU PENDAFLOUR
- D.B
- EMERGENCY LIGHT
- FIDDER FILLER
- FLEXIBLE CONDUIT
- METER BOX 3 PHASE
- PENDAFLOUR 2" X 4"
- BULB PLC PIN TYPE 18W
- ROD KIPAS (WHITE)
- TELEPHONE CABLE 4 CORE
- CAT 5E CABLE
- CABLE 3 CORE
- TRUNKING (WHITE) 3" X 4"
- TRUNKING (OREN) 2" X 3"
- TRUNKING (OREN) 2" X 2"
- TRUNKING (OREN) 2" X 4"
- KIPAS SILING
- CABLE 4MM (RED)
- CABLE 4MM (YELLOW)
- CABLE 4MM (BLUE)
- CABLE 4MM (BLACK)
- CABLE 4MM (GREEN)
- BULB PING PONG 40W
- PVC SWITCH 3 GANG 1 WAY
- PVC SWITCH 2 GANG 1 WAY
- GI SWITCH 1 WAY 1 GANG
- GI SWITCH 2 GANG 1 WAY
- GI SWITCH 3 GANG 1 WAY
- PVC SWITCH 2 GANG 1 WAY (USED)
- CABLE 6MM (GREEN)
- CABLE 6MM (BLACK)
- CABLE 6MM (RED)
- CABLE 10MM (RED)
- STARTER S2
- STARTER S10
- EMERGENCY LIGHT "KELUAR"
- TRANSFORMER 240V-12V
- KABLE 4MM (BLUE)
- CABLE LUG 4MM
- KABLE 4MM (RED)
- KABLE 4MM (BLACK)
- KABLE 4MM (YELLOW)
- MCB 63A 3 POLE
- MCB 32A 3 POLE
- BULB (ECOTONE) 15W-20W
- RAYCHAM (4COVE)
- PVC STOP VALVE 3/4
- BLB PENDAFLOUR 36W
- G.I DOUBLE BASE BOX 3"X 3"
- G.I SOKET 13 AMP SINGLE

ELECTRICAL GENERAL

- ALUMINIUM CABEL 16 MM 1 CORE
- BULB 70 W (SON) - E
- BULB POWERTON E 27 70 W (SON) - TUBE
- BULB 150 W (SON)
- BULB 250 W (METAL HALIDE)
- BULB 250 W (SON)
- BULB 400 W (METAL HALIDE)
- BULB 400 W (SON)
- BALLAST 70 W
- BALLAST 150 W
- BALLAST 250 W
- BALLAST 400 W
- BULB PENDAFLOUR 18 W (WHITE) (PENDEK)
- BULB PENDAFLOUR 36 W (WHITE) (PANJANG)
- BALLAST 18 - 20 W
- BALLAST 32 - 40 W
- BRACKET SIGNAGE T LIGHT
- BULB (ECOTONE) WHITE 20 W
- BULB 25 W (KUNING) 15 W
- BULB 60 W (SOFTONE SKRU TYPE)
- BUSBAR 14 WAY
- BUSBAR 46 WAY
- BUSBAR 48 WAY
- CABLE (BLACK) 4 MM
- CABLE DRUM (BLACK) 16 MM 4 CORE
- CORRUGATED PAIP MERAH 4" X 6 M
- CONTACTOR 2040/20 A
- COXIAL CABLE
- COPPER TAPE 1"

ELECTRICAL GENERAL

- CABLE DRUM (BLACK) 10 MM 2 CORE
- CABLE GLAND 204
- CABLE GLAND 206
- CABLE GLAND 256
- CABLE GLAND 254
- CABLE LUG 16 MM
- CABLE LUG 25 MM
- CABLE LUG 70 MM
- CAT 5E CABLE
- CCTV
- CHILI BULB (YELLOW) 25 W
- CABLE 1.5 MM (BLACK)
- CABLE 1.5 MM (RED)
- CABLE 1.5 MM (YELLOW)
- CABLE 1.5 MM (BLUE)
- CABLE 1.5 MM (GREEN)
- D HOOK (ROD KIPAS)
- CABLE 2.5 MM (BLACK)
- CABLE 2.5 MM (GREEN)
- CABLE 2.5 MM (RED)
- CABLE (GREEN) 4 MM
- CABLE (RED) 4 MM
- CABLE (YELLOW) 4 MM
- DEAD AND CLAMP
- DECORATIVE BUNGA MANGGAR (RED)
- EARTHING ROD
- ELCB 3 PHASE 63 AMP
- EMERGENCY LIGHT (KELUAR SIGN)
- FUSE 15 AMP (WHITE)
- FIUS HOLDER 20 A HRC
- FLOATLESS SWITCH
- FUSE 15 A (WHITE)
- FUSE COMPLETE SET 100 AMP (CUT OUT 100 A)
- FUSE 100 AMP (WHITE)
- FUSE 10 A 250 V
- FUSE 15 AMP - 20 AMP
- FUSE 16 A 250 V
- FUSE 100 AMP 500 V (BLUE)
- FUSE 63 AMP HRC 500 V
- FUSE 5A 50 V
- FUSE 60 AMP
- FUSE COMPLETE SET 60 AMP (CUT OUT 60 A)
- FUSE HOLDER 20 AMP
- FUSE HOLDER 63 AMP HRC (BLACK)
- FLOOD PAR 38 (WHITE) 120 W
- FUJI LAMP (BULB PAR 38) YELLOW
- G.I ELBOW 1"
- G.I ELBOW 3/4"
- G.I TEE 1"
- G.I TEE 3/4"
- G.I END BOX 3/4"
- G.I 4 WAY BOX 1"
- G.I 2 WAY BOX 1"
- G.I PIPE 4"
- HOLDER E 40
- HOLDER E 27
- HALOGEN BULB 50 W (YELLOW)
- HALOGEN BULB 12 V 50 W
- HALOGEN BULB 240 V 50 W
- HOLDER PENDAFLOUR
- IPC CABLE 16 : 25
- IGNITOR (70 W - 400 W)
- KAPASITOR 30 MICRO UF
- U CLIP 3/4"
- LAMP HOLDER PIN TYPE (BLACK)
- MALE FEMALE 3/4" (WHITE)
- PVC MALE FEMALE 1" (WHITE)
- MAINSWITCH 3 POLE 32 AMP
- MAINSWITCH 32 AMP
- MAINSWITCH 63 AMP (WHITE)
- MCB 10A 1 POLE
- MCB 20A 1 POLE
- MCB 240/415 V C 32
- MCB 32 AMP (WHITE)
- MCB 6 AMP
- MENTOL 60 W
- MENTOL 40 W
- NEUTRAL LINK 60 A
- PVC TRUNKING 4" X 2" (NEW)
- PVC TRUNKING 2" X 3" (NEW)
- PVC TRUNKING 2" X 2" (NEW)
- PVC CONDUIT WALL HOOK
- PVC ELBOW 3/4" (WHITE)
- PVC TEE JOINT 1"
- PVC SOKET 3/4" (WHITE)
- PVC SOKET 1" (WHITE)
- PING PONG BULB 5 W (WHITE)
- PING PONG BULB 5 W (BLUE)
- PING PONG BULB 5 W (GREEN)
- PING PONG BULB 5 W (GREY)
- PING PONG BULB 5 W (ORANGE)
- PING PONG BULB 5 W (RED)
- PING PONG BULB 5 W (YELLOW)
- PLC 18 W (827) PIN TYPE (WHITE)
- BULB 15W

ELECTRICAL GENERAL

- PLCE (SKRU) 8 W
- PLCE (SKRU) 14 W
- PLC (WHITE) 15 W
- PVC BOX 1 GENG 3" X 3" (BLACK)
- PVC BOX 1 GENG 3" X 3" (WHITE)
- PVC BOX 4 GENG 3" X 3" (WHITE)
- PVC CASING 1" (WHITE)
- PVC CONDUIT 3/4" (20 MM)
- PVC CONDUIT 1" (WHITE)
- PVC CONDUIT 1/2"
- PAIP PVC 2" (KELABU)
- RCCB 40 AMP 100 MA (WHITE)
- REGULATOR (FAN)
- RING BULB 22 W
- RING BULB 32 W
- RING BULB 40 W
- RING BULB HOLDER (WHITE)
- SOCKET TRUNKING 2" X 2" (OREN)
- SOCKET TRUNKING 2" X 3" (GREEN)
- SOCKET TRUNKING 2" X 3" (PUTIH)
- SOCKET TRUNKING 2" X 4" (PUTIH)
- SOCKET TRUNKING 4" X 6" (PUTIH)
- SOCKET 13 AMP
- SPORTLIGHT (YELLOW) 100 W
- SPORTLIGHT 250 W (YELLOW)
- SPORTLIGHT 400 W (YELLOW)
- SPORTLIGHT 150W (METAL HALIDE)
- SPORTLIGHT TRACK TYPE (WHITE)
- STARTER S 10
- STARTER S 2
- STROBE LIGHT CONTROLLER
- SUIIS 1 GANG
- TRANSFER TO STOCK CARD E/G USED REF 0046
- SUIIS 2 WAY 1 GANG (WHITE)
- SUIIS 3 GANG
- SUIIS 4 GANG
- SUIIS WATER HEATER
- PVC TEE BOX 1" CONDUIT (WHITE)
- TIMER HEAGER
- TRANSFORMER HALOGEN (WHITE)
- TRUNKING 2" X 3" (GREEN)
- TRUNKING (WHITE) 3" X 4" (NEW)
- TRUNKING (OREN) 2" X 3" (NEW)
- TRUNKING (OREN) 2" X 2" (NEW)
- TRUNKING (HIJAU) 2" X 3" (NEW)
- TRUNKING (OREN) 2" X 4" (NEW)
- TRUNKING 2" X 4" (WHITE)
- TWIN FLET CABLE 2.5 MM
- U CLIP 1"
- UNDERWATER FLOODLIGHT COVER
- CABLE 2.5MM (YELLOW)
- CABLE 2.5MM (BLUE)
- CABLE 4MM (BLUE)
- CABLE 4MM (BLACK)
- G.I 2 WAY BOX 3/4"
- G.I 3 WAY BOX 3/4"
- G.I 'L' BOX 3/4"
- G.I SOKET 3/4"
- G.I SOKET 1"
- G.I SOKET 2"
- G.I SADLE & BAR 3/4"
- G.I SADLE & BAR 1"
- PVC SADLE & BAR 20MM
- PVC SADLE & BAR 25MM
- CONTACTOR 60 AMP
- CONTACTOR 100 AMP
- G.I CONDUIT 3/4" (OREN)
- SOCKET 13 AMP (METALCLAD)
- SUIIS 1 GANG 1 WAY (METALCLAD)
- SUIIS 1 GANG 2 WAY (METALCLAD)
- SUIIS 2 GANG 1 WAY (METALCLAD)
- SUIIS 2 GANG 2 WAY (METALCLAD)
- SUIIS 3 GANG 1 WAY (METALCLAD)
- SUIIS 4 GANG 1 WAY (METALCLAD)
- G.I LONG BAND 3/4"
- KIPAS SILING
- ROSE CEILING
- G.I REDUSER 3/4" - 1"
- TRUNKING 2" X 2" (G.I COLOUR)
- COPPER MALE BUSH 3/4"
- COPPER LINK (2 HOLE)
- CONNECTOR
- SOCKET 13 AMP X 2 (METALCLAD)
- LAMPU PENDAFLOUR 36W
- LAMPU PENDAFLOUR 36W X 2
- LAMPU PENDAFLOUR 18W
- EXHAUSE FAN
- KIPAS DINDING
- CABLE 6MM (RED)
- CABLE 6MM (BLACK)
- G.I 4 WAY BOX 3/4"
- PVC 4 WAY BOX 1" (CONDUIT)
- PVC BASE BOX DOUBLE (PUTIH)
- LAMPU LED (OREN)

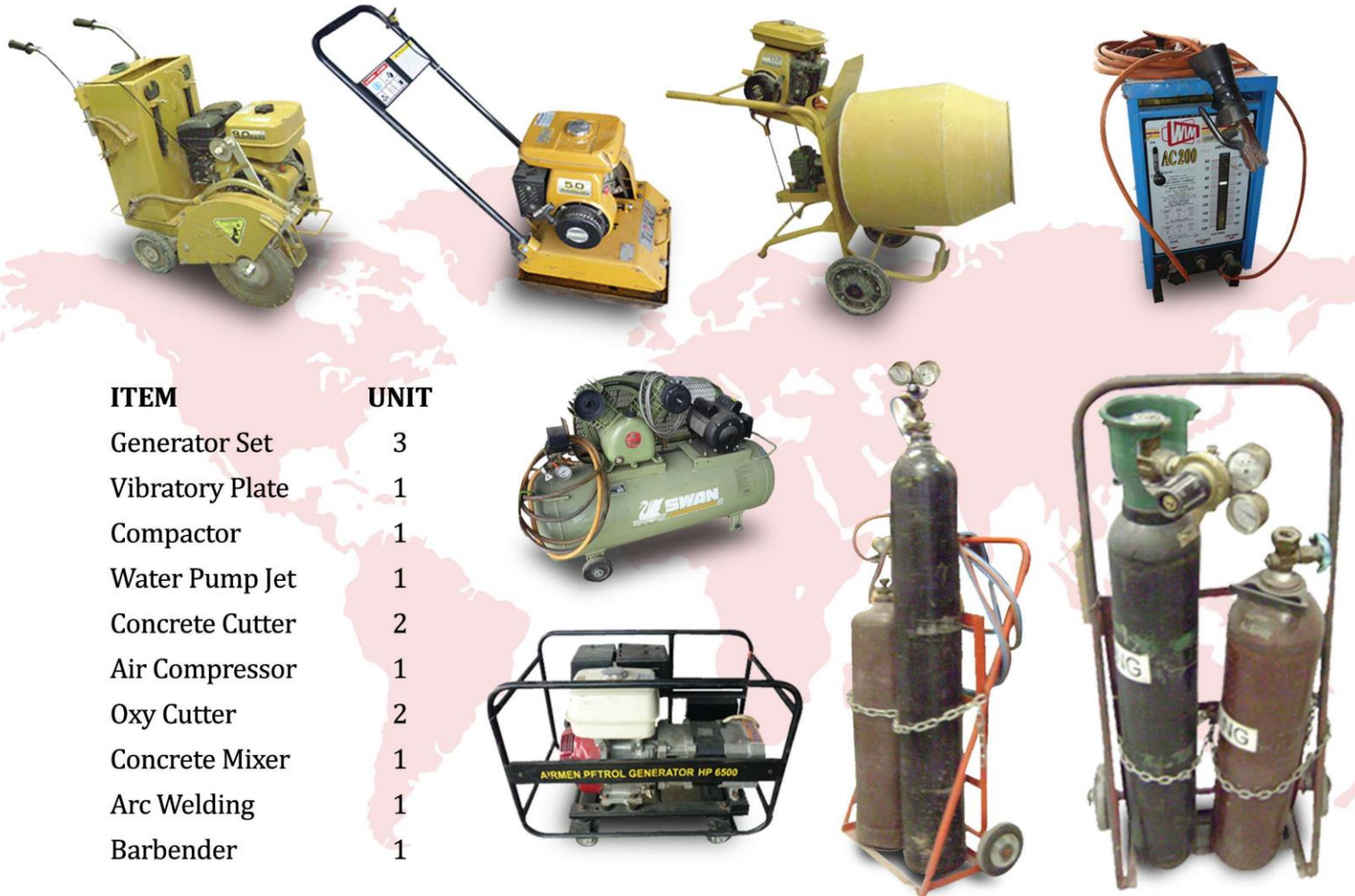
BUILDING ON FAMILY LEGACY OF

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

16.0 CENTRAL WAREHOUSE, MACHINERIES & TOOLS

16.2 MACHINERIES

LIGHT MACHINERIES



ITEM	UNIT
Generator Set	3
Vibratory Plate	1
Compactor	1
Water Pump Jet	1
Concrete Cutter	2
Air Compressor	1
Oxy Cutter	2
Concrete Mixer	1
Arc Welding	1
Barbender	1

HEAVY MACHINERIES



ITEM	UNIT
Skylift	2

17.0

TESTING EQUIPMENT



17.0 TESTING EQUIPMENTS

1.



ELECTRONIC BALANCING TOOLS WITH AIR FLOW PRO HOOD

Brand Alnor
Model EBT 721
Serial No. 90802016
Calibration J10400

2.



THERMO ANEMOMETER

Brand Alnor
Model AVM 440
Serial No. AVM 440802007
Calibration J10399

3.



INFRARED THERMOMETER

Brand Fluke
Model 561 HVAC Pro
Serial No. 0612875
Calibration -

4.



PARTICLE COUNTER

Brand Alnor
Model Lasair III 310c
Serial No. 66359
Calibration J8266

17.0 TESTING EQUIPMENTS

5.



PRESSURE GAUGE TEST EQUIPMENT

Brand DRUCK
Model DP 1705
Serial No. 70541130
Calibration 7369

6.



AGSS TEST EQUIPMENT

Brand MEC
Model BS 6834
Serial No. F 124399/14
Calibration -

7.



AIR SAMPLING SYSTEM

Brand SAS
Model EW-33687-02
Serial No. 09-L-06101
Calibration J10392

8.



LIGHT INTENSITY MEASURING INSTRUMENT

Brand TESTO
Model Testo 540
Serial No. 05541776
Calibration -

17.0 TESTING EQUIPMENTS

9.



HCHO DETECTOR

Brand	RIKEN KEIKI
Model	FP-30
Serial No.	065020022RNT
Calibration	-

10.



MINI INCUBATOR

Brand	PBI BRAND
Model	Anno 2008
Serial No.	61476
Calibration	-

11.



PHOTOMETER

Brand	ATI
Model	TDA-2G/2H
Serial No.	-
Calibration	-

12.



THERMO SCIENTIFIC

Brand	THERMO SCIENTIFIC
Model	PDR-1500
Serial No.	1018243129
Calibration	-

17.0 TESTING EQUIPMENTS

13.



GREYWOLF SENSOR

Brand	GREYWOLF
Model	AS-201 / TG 501
Serial No.	-
Calibration	-

14.



TACHOMETER

Brand	KIMO
Model	CT 100 0
Serial No.	05060620
Calibration	J8593

15.



MINNEAPOLIS DOOR BLOWER

Brand	ALNOR
Model	AVM 440
Serial No.	AVM 440802007
Calibration	J10399

18.0

COMPANY VEHICLES



18.0 COMPANY VEHICLES



Proton Wira
Proton Iswara

WPA 1499
BFK 6009



Van-Toyota Hiace **WQT 3975**



Lorry-Daihatsu
Delta

WNN 1148
WPE 9075
BKT 5201



Van-Nissan
Vaneete

WPF 7923
WJL 2426
WLQ 1152
SAA 3278B



Lorry-Mitsubishi **WQB 8596**

19.0

SUPPLIERS & CREDITORS



19.0 SUPPLIERS & CREDITORS

COMPANY'S NAME	MATERIAL SUPPLIED
Precision UK Ltd.	Medical Gas Pipeline System
Chat Union Climaveneta	Chiller, AHU, FCU, Fan Coil
Distech Control Pte. Ltd.	Building Management System (Hardware/Software)
Accutrol Tek-Air System, Inc.	Critical Air Flow Control System
Acson Malaysia Sales & Service	Air Conditioner & Freezer Products
Topaire Sales & Services Sdn. Bhd.	Air Cond & Refrigeration Products
Dunham-Bush Malaysia	Air Cond & Refrigeration Products
Syn Tai Hung Trading Sdn. Bhd.	Building Materials & Hardware
Spirax Sarco Sdn. Bhd.	Steam Ancillaries Products
Environmental Building System	Special Air Cond Ducting System
MSM Marketing Sdn. Bhd.	Kitchen Equipments
Alliance Precast Industries Sdn. Bhd.	Concrete Products
Yong Hardware Trading Sdn. Bhd.	Building Materials & Hardware
Semafori Controlli Automazione Electronica	Traffic Light System & Products
George Kent	Boilers/Press. Vessel/Hot Water Installation
Rigel Technology (M) Sdn. Bhd.	Sanitary Fittings & Wares
Koon Hoe & Company Sdn. Bhd.	Sanitary Fittings & Wares
Bumhan Sanitary Wares Sdn. Bhd.	Sanitary Fittings, Wares & Services
Guocera Marketing Sdn. Bhd.	Tiles & Finishes
Tileron Enterprise Sdn. Bhd.	Polycarbonate Roof System & Products
Lafarge Roofing System	Roofing Tiles Products
Fidecco Sdn. Bhd.	Glass Doors & Products
Pristine Frontier Sdn. Bhd.	Iron Mongery & Door Accesories
Sham Pest Control Sdn. Bhd.	Pest Control & Services
Entropest Sdn. Bhd.	Pest Control & Services
Reka Taman	Landscaping Materials, Products & Services
Titi Maju	Lift Installation, Maint & Services
Insafoam Insulation	Thermal & Insulation System & Products
Tractors Malaysia (1982) Sdn. Bhd.	Plants & Machineries Rental & Services
Yi-Lai Industry Berhad	Tiles Products
Kimgress Marketing Sdn. Bhd.	Tiles & Finishes Products
White Horse Marketing Sdn. Bhd.	Tiles & Finishes Products
MNH Jati Sdn. Bhd.	Mechanical, Electrical, Automation Fittings, Equipments & Tools
Linear Technology	Cooling Tower
Magnipower Enterprise	Electrical Materials & Products
Everdollar Machinery & Hardware Supply Sdn. Bhd.	Building Works Equipments, Machinery etc.
CSM Hardware Sdn. Bhd.	Hardware & Tools
Buildcon Concrete	Ready-Mix Concrete etc.
Lysaght Marketing Sdn. Bhd.	Street Lighting Products
Bubble Network	Electrical Panel
Pro Trade Advance Sdn. Bhd.	Traf. Light Controller, Countdown System, Road Signages etc.
Tricmatic Electrical Automation Sdn. Bhd.	Electrical & Electronic Products, Fire Fighting, Security, PLC System, Cabling Installation, Earthing Works
KVC Electric (Selangor) Sdn. Bhd.	Electrical Products
Electroms Sdn. Bhd.	Trunk Radio
Oversea Lighting & Electric (M) Sdn. Bhd.	Lighting Products etc.
Midor Interior Designer & Furnishing Sdn. Bhd.	Interior Design & Furnishing
AM Office System Sdn. Bhd.	Furnishing & Fittings
Alphamatic Systems Sdn. Bhd.	Virtual Office Solution
Stone World Sdn. Bhd.	Marble, Granite, Limestones & Travertine Products & Installation
Cyberharvest (M) Sdn. Bhd.	Iron Mongery, Doors, Folding/sliding Gear System & General Basic Building Materials

BUILDING ON FAMILY LEGACY OF

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

20.0

REFERENCES

20.1

INTERNATIONAL

20.2

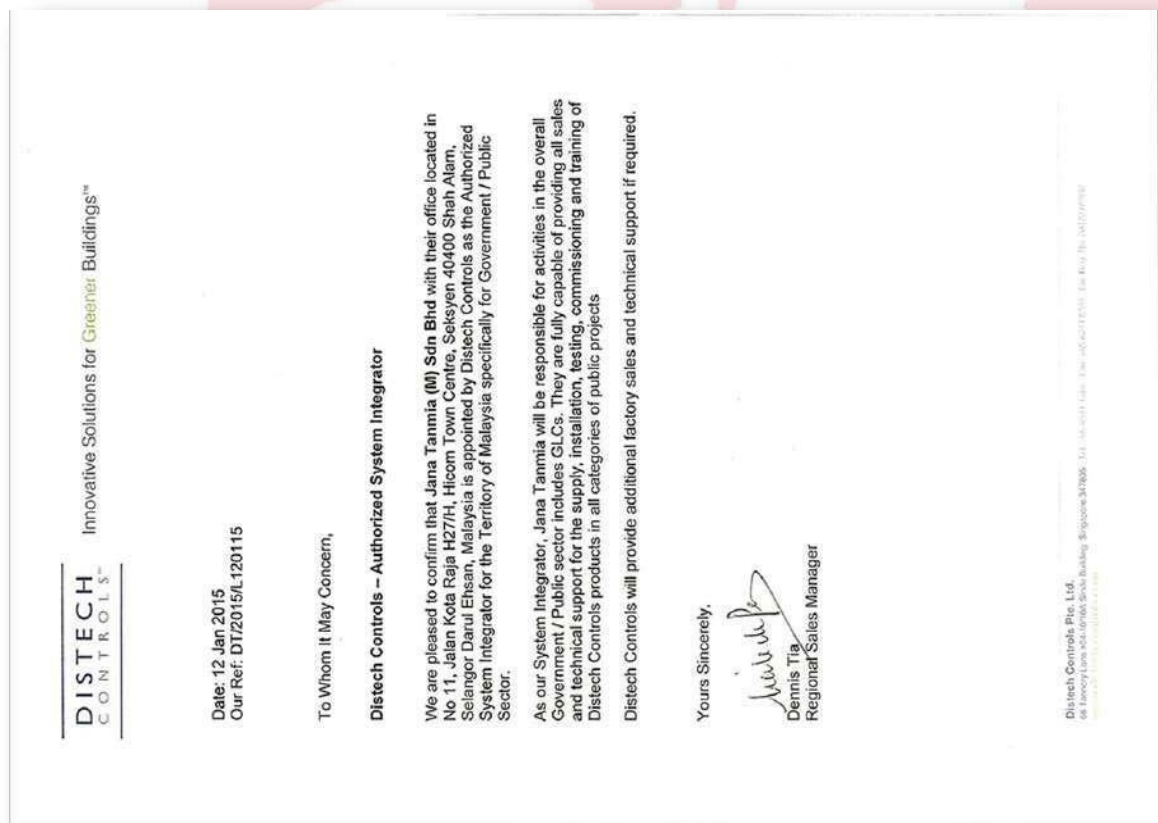
LOCAL



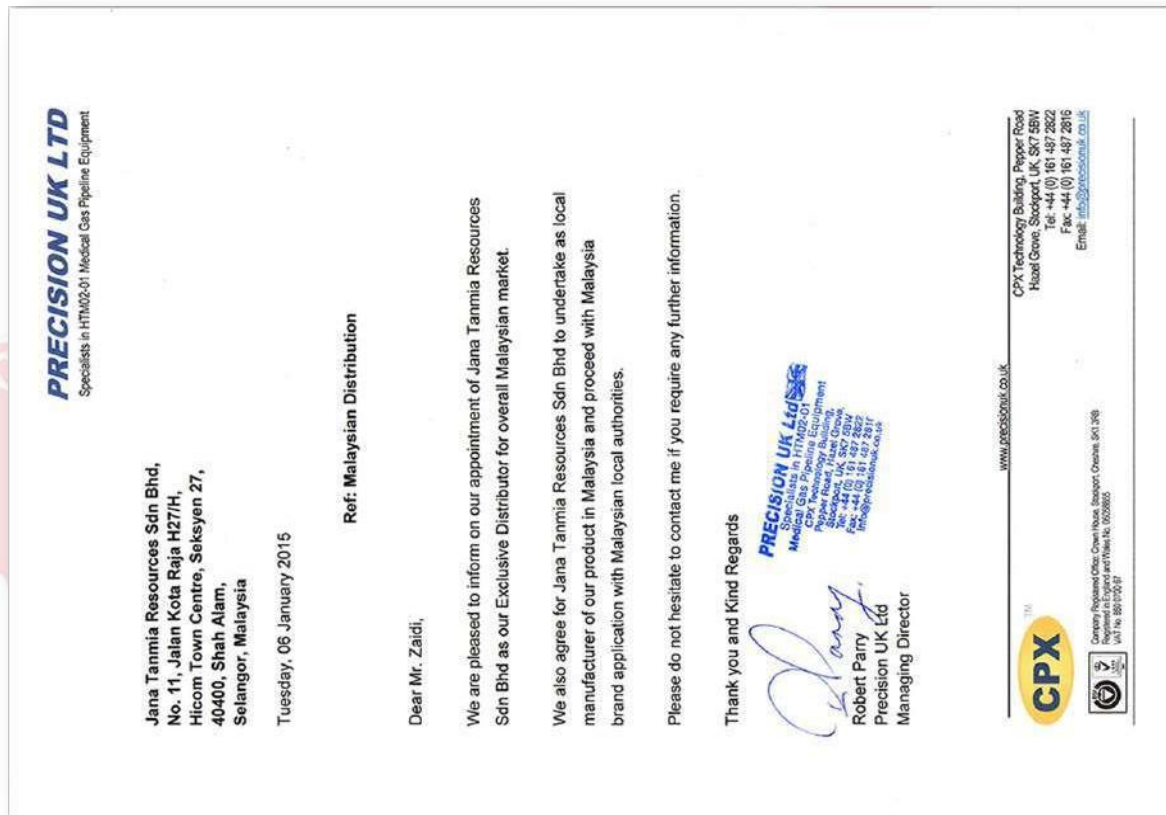
20.0 REFERENCES

20.1 INTERNATIONAL

b.DISTECH CONTROL



a. PRECISION UK



20.0 REFERENCES

20.1 INTERNATIONAL

d. DISTECH CONTROL



4/8/2014

To whom it may concern;

Please accept this letter as conformation that Jana Tannia Corporation is an Authorized Dealer Of Clearwater Enviro Technologies, Largo, FL USA. The products represented are ScaleBlaster, Mineral Pure and Ozone Max.

If you need any other information please feel free to contact me.

Best Regards,

Bill Glass
V.P. Sales and Operations
Clearwater Enviro Technologies
bill@clearwater-enviro.com

8767 115th Avenue North • Largo, FL 33773 • USA • Phone: 727-562-5186 • Fax: 727-562-5187
clearwater-enviro.com

c. TEK AIR



REGIONAL OFFICES
Atlanta Chicago Danbury Phoenix

December 5, 2007,

Tek-Air Systems, Inc. Announcement

Tek-Air Systems, Inc., a leader in critical airflow control is pleased to announce that *Jana Tannia (M) Sdn. Bhd, Engineering, Construction & Maintenance*, has been selected to represent Tek-Air Systems, Inc. in Malaysia.

Jana Tannia (M) Sdn. Bhd, was established in April 1996 and is managed by Mr. Mohd Zaidi Iamdin. Jana Tannia (M) Sdn. Bhd, is experienced in providing engineering, construction, maintenance and support to today's modern and complex facilities in Malaysia.

Tek-Air Systems, Inc. manufactures air flow measurement devices, air flow control valves and control systems for pressurization and laboratory air flow management and control. Tek-Air Systems, Inc. products and systems have been installed world wide for over 28 years in hospitals, research labs, universities, industrial buildings and major pharmaceutical companies.

We know that the combination of proven high performance Tek-Air products with a local knowledgeable and experienced installation and support services company will deliver the project as designed. This is why we are pleased to be working with Jana Tannia (M) Sdn. Bhd. for all of Malaysia.

Sincerely,

Tom Checksfield
Tom Checksfield
General Manager
Tek-Air Systems, Inc.

BUILDING ON FAMILY LEGACY OF

EXCELLENCE | MUTUAL RESPECT | ETHICS | SAFETY | SUSTAINABILITY | FAIR RETURN

e. DELL MALAYSIA



Dell Sales Malaysia Sdn Bhd
2900 Persiaran APEC 63000 Cyberjaya,
Selangor Darul Ehsan
Telephone Line: 03-6310 1888 Fax Line: 03-6318 0618

Date

To Whom It May Concern:

LETTER OF AUTHORIZATION

Dell Sales Malaysia Sdn Bhd, formerly known as Computer Direct Sdn., hereby certifies **JANA TANMIA (M) SDN BHD** having address No. 11 Jalan Kota Raja H27/H, Hicom Town Centre, Section 27, 40400 Shah Alam, Selangor (Reseller) is a Dell Authorized Reseller in Malaysia, solely for the supply of Dell products, particulars of which are set out in the Schedule here to (the "Products"), to "End User".

Provided that the sale of the Products to "End User" is in compliance with United States Export Control Laws and Regulations, the Reseller is authorized to act as a Reseller of Dell computer products to you in Malaysia and has Dell's commitment to provide products, services, and support in accordance with Dell's prevailing terms and conditions of sale (the "Terms and Conditions").

This authorization is void if Dell suspects or receives information or otherwise determines that (a) the end user of the Products will utilize the Products directly or indirectly in nuclear activities listed in US EAR 778.3(b)(1), (2) & (3), whether the items are specifically designed or modified for such activities, or (b) that the Products will be destined for or used in the design, development, production or use of missiles or missile projects, or designing, developing, fabricating or testing nuclear, chemical, biological weapons or explosive devices, or (c) permission for the sale of the Products (if requested) is withheld, for any reason, by the United States Department of Commerce or other United States Government Agency. Please be advised that the Products may include technical data subject to export and re-export restrictions imposed by the USA.

This authorization is valid for a period of ninety (90) days commencing from the date of this letter.

Yours sincerely,

DELL SALES MALAYSIA SDN BHD

By : ABD SHUKOR AZRIN
PUBLIC SALES DIRECTOR

f. RGF ENVIRONMENTAL GROUP



Environmental Group, Inc.

April 8, 2014

Jana Tanmia (M) Sdn. Bhd.
No. 11, Jalan Kota Raja H27/H
Seksyen 27, Hicom Town Centre
40400 Shah Alam, Selangor Darul Ehsan
Malaysia

Dear sir,

Please be advised that RGF Environmental Group, Inc. hereby confirms Jana Tanmia (M) Sdn. Bhd. is authorized to distribute and sell our Guardian Air product line and to provide warranty and service for RGF Environmental Group's products in Malaysia.

Best Regards,

Sharon B. Rinehimer
Vice President-General Counsel

SBR/lm

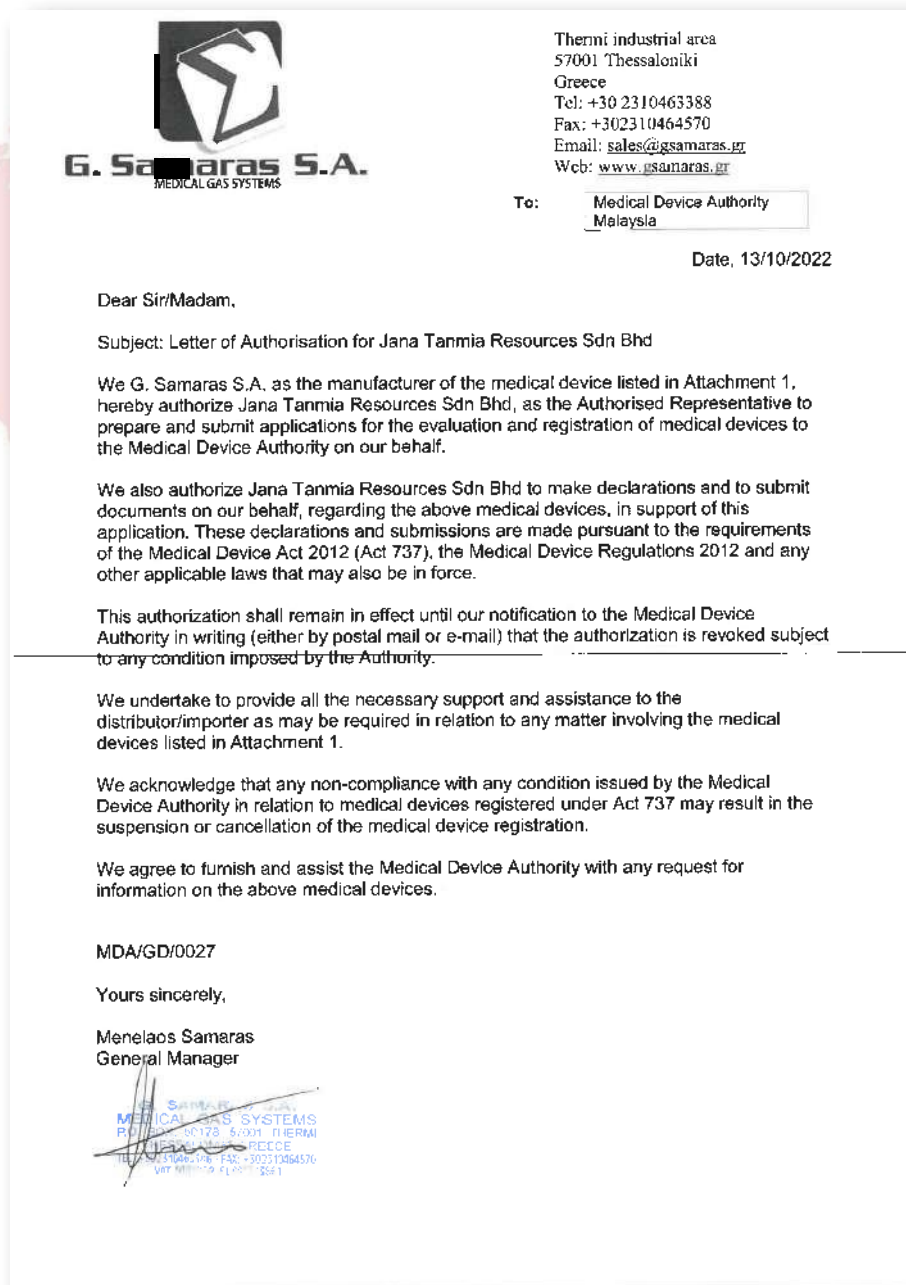


1101 West 13th Street (Port of Palm Beach Enterprise Zone) Riviera Beach, Florida 33404
FL 561 848-1826 • 800 842-7771 • Fax 561 848-9454 • www.rgf.com

20.0 REFERENCES

20.1 INTERNATIONAL

g. G SAMARAS S.A.



b. ACSON MALAYSIA



Acson Malaysia Sales & Service
A member of the O.V.L. Group



Our Ref: DA100813-011

Date : 13TH AUG 2010

TO WHOM IT MAY CONCERN

We hereby certify that Messrs. JANA TANMIA SDN BHD, No 11 JALAN KOTA RAJA 1127/H, HICOM TOWN CENTRE, SEKSYEN 27, 40400 Shah Alam, Selangor is eligible to promote our complete range of ACSON Air Conditioners and Products

We have extending our fullest support to Messrs. JANA TANMIA SDN BHD in all matters regarding installation commissioning and maintenance of all ACSON equipment's.

This letter was issued without any responsibility or obligation on the part of the company and any of its employees.

The management reserves the right to revise and review of the facility when deemed necessary.

Regards,

Yours faithfully

ACSON MALAYSIA SALES & SERVICE SDN BHD


Yeap Kin Oun
Sr. Manager, National Sales

Acson Malaysia Sales & Service Sdn Bhd (126688-0)
Lot 4, Lorong 18/1A, Section 15, 46300 Petaling Jaya, Selangor Darul Ehsan, Malaysia.
Tel: 03-7964 8200 Fax: 03-7956 9907/9 E-mail: acson@acson.com.my
Visit us at www.acson.com.my

a. TOPAIRE



Topaire Sales & Services Sdn Bhd

(274725 - W)

20 December 2006

TO WHOM IT MAY CONCERN

We are the Sole Distributor for the complete range of TOPAIRE air conditioning and refrigeration equipment in Malaysia. The above products are fully guaranteed and manufactured by our own factories, DUNHAM-BUSH INDUSTRIES SDN BHD and DUNHAM-BUSH TOPAIRE SDN BHD. Both factories are certified MS ISO 9002 air-conditioner manufacturers.

We hereby certify: -

That JANA TANMIA (M) SDN BHD of NO. 11, JALAN KOTA RAJA H 27/H, SEKSYEN 27, HICOM TOWN CENTRE, 40400 SHAH ALAM, SELANGOR is our authorized dealer for the complete range of TOPAIRE equipment.

This company has our full support in all technical matters in regards to system design, selection, installation, service and maintenance.

With our support, we hope that you will consider them favorably in their tender for TOPAIRE air conditioning and ventilation projects, including contracts for repairing, servicing and maintenance of our equipment.

Thank you.

Yours faithfully,


Tony Lau
Area Manager

LOT 8, JALAN P17, SEKSYEN 13, KAWASAN PERUSAHAAN BANGI, P.O. BOX 17, 43650 BANGAR BARU BANGI, SELANGOR DARUL EHSAN.
TEL : 03 - 8925 2022 FAX : 03 - 8925 5605

d. DUNHAM BUSH MALAYSIA

DUNHAM-BUSH
MALAYSIA

DUNHAM-BUSH SALES & SERVICES SDN. BHD.
(272200-X)
Corporate Office :
Lot 5755-6, Kidamas Industrial Park, Bukit Angkat,
43000 Kajang, Selangor Darul Ehsan, Malaysia.
P.O. Box No. 53, 43057 Bandar Baru Bangi,
Selangor Darul Ehsan, Malaysia.
Tel : 603-87339898 Fax : 603-87342178 / 87346178

Date: 18th December 2006

Jana Tanmia (M) Sdn Bhd
No.11, Jalan Kota Raja H 27/H,
Seksyen 27, Hicom Town Centre,
40400 Shah Alam, Selangor

Attn : En. Mohd Zaidi Ilamdin

Dear sir,

Hereby, we wish to confirm that we would give our full support in all technical matters concerning sales, applications, installation, service and maintenance of our range of DUNHAM-BUSH products as follows:

1. Full range of air-conditioning and refrigeration equipment.
2. Cooling Towers.
3. Ventilation fans.
4. Grilles and Air diffusers.

The terms of payment will be discussed and negotiated on the basis of project and the type of equipment that will be involved in.

Thank you.

Yours faithfully,

DUNHAM-BUSH SALES & SERVICES SDN. BHD.

[Signature]

KOH KEN WENG
General Manager



Products That Perform... By People Who Care

c. YORK MALAYSIA

YORK Malaysia
Engineering technology for the new millennium

York (M) Sales & Service Sdn Bhd

51B, Jalan SS 21/1A, Damansara Utama
47400 Petaling Jaya, Selangor Darul Ehsan.
Tel No.: 6-03-7727 6779 (Hunting)
Fax No: 6-03-7729 2802 (Service)
6-03-7727 6778 (Sales)

Our Ref.: YMSSTHQ/SFR/SL/03

26 MARCH 2013

To Whom It May Concern:

This is to acknowledge that York (M) Sales & Service Sdn. Bhd will provide full technical support to the below authorized contractor:

JANA TANMIA (M) SDN BHD
NO. 11, JALAN KOTA RAJA H27/H,
HICOM TOWN CENTRE,
40400 SHAH ALAM,
SELANGOR DARUL EHSAN

for all range of York Equipment in Malaysia.

We will extend our service back-up and warranty to ensure the success of the project they are undertaking.

We hope that they will succeed in their business endeavours and grow this company to greater heights.

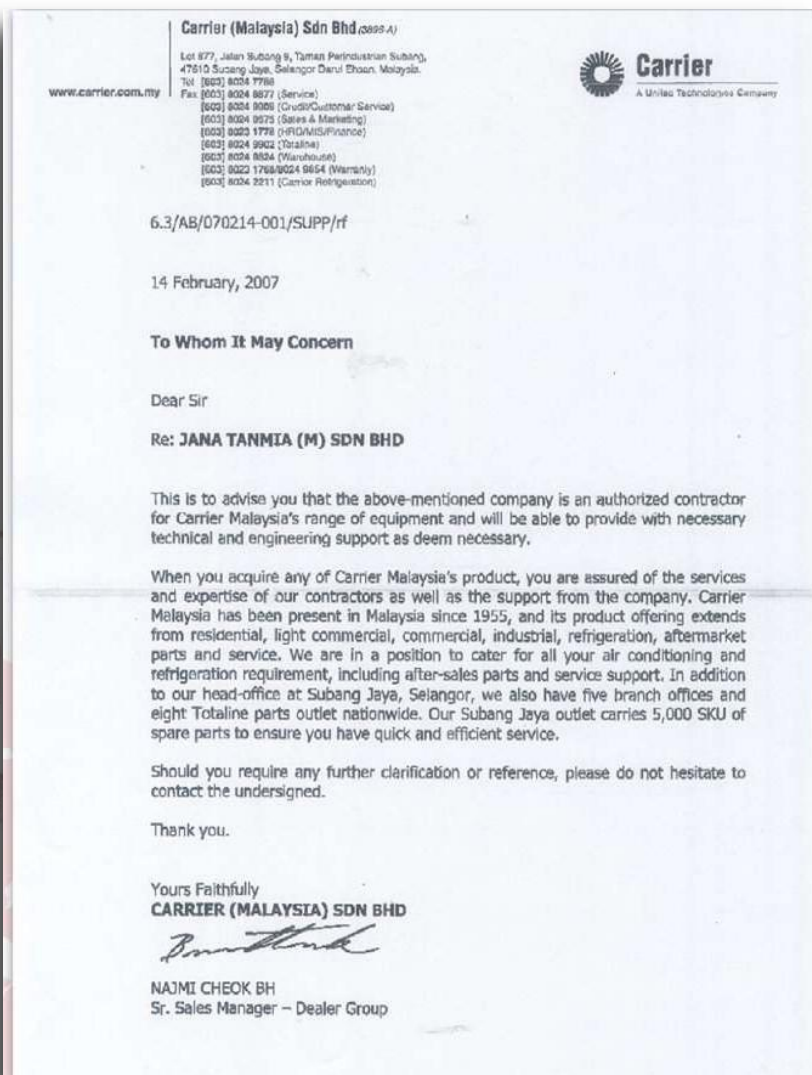
Thank you.

Yours sincerely,
York (M) Sales & Service Sdn. Bhd.

[Signature]

Shamsul Fazri Ramli
Area Sales Head

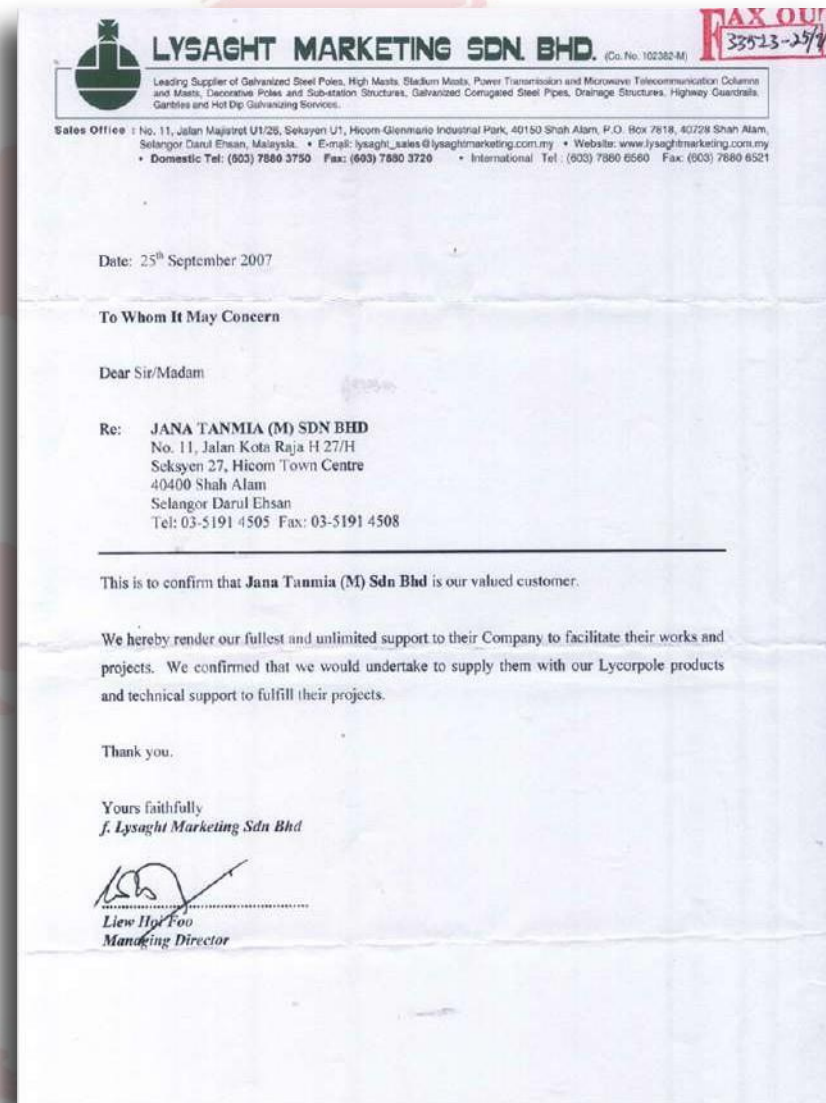
f. CARRIER MALAYSIA



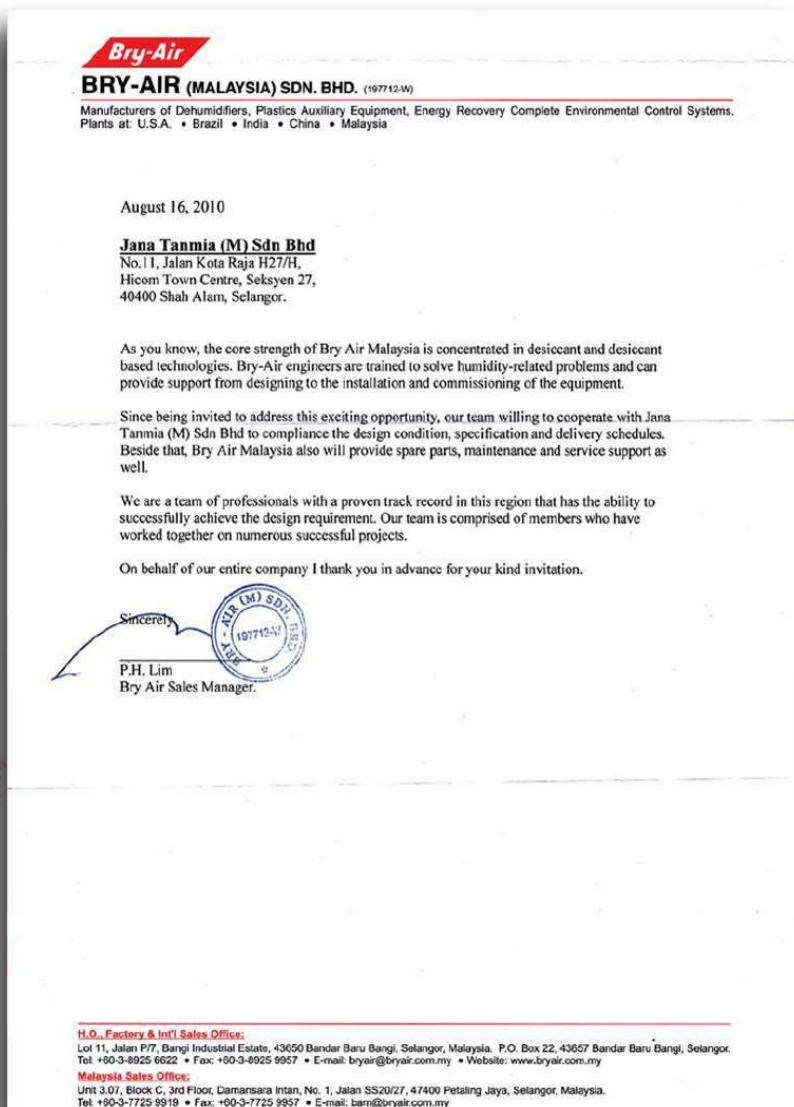
e. MS ELEVATORS ENGINEERING



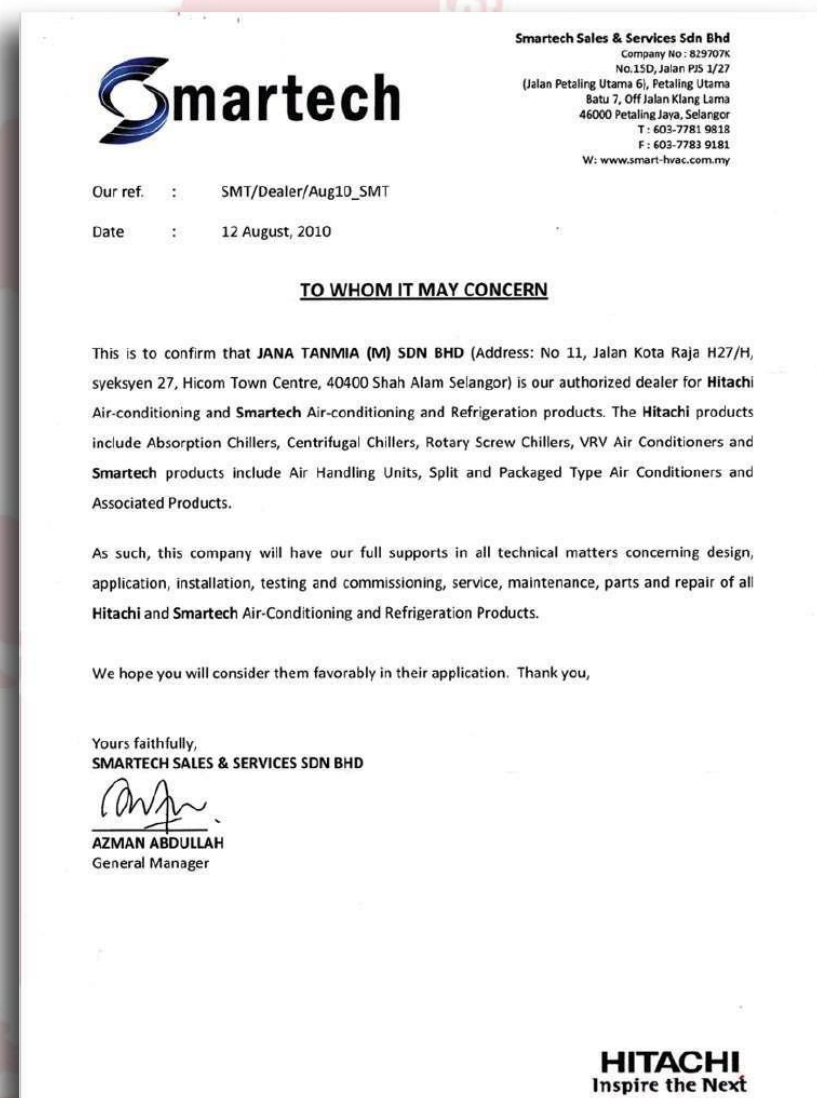
h. NIHON SPINDLE COOLING TOWER g. LYSAGHT MARKETING



j. BRY-AIR MALAYSIA



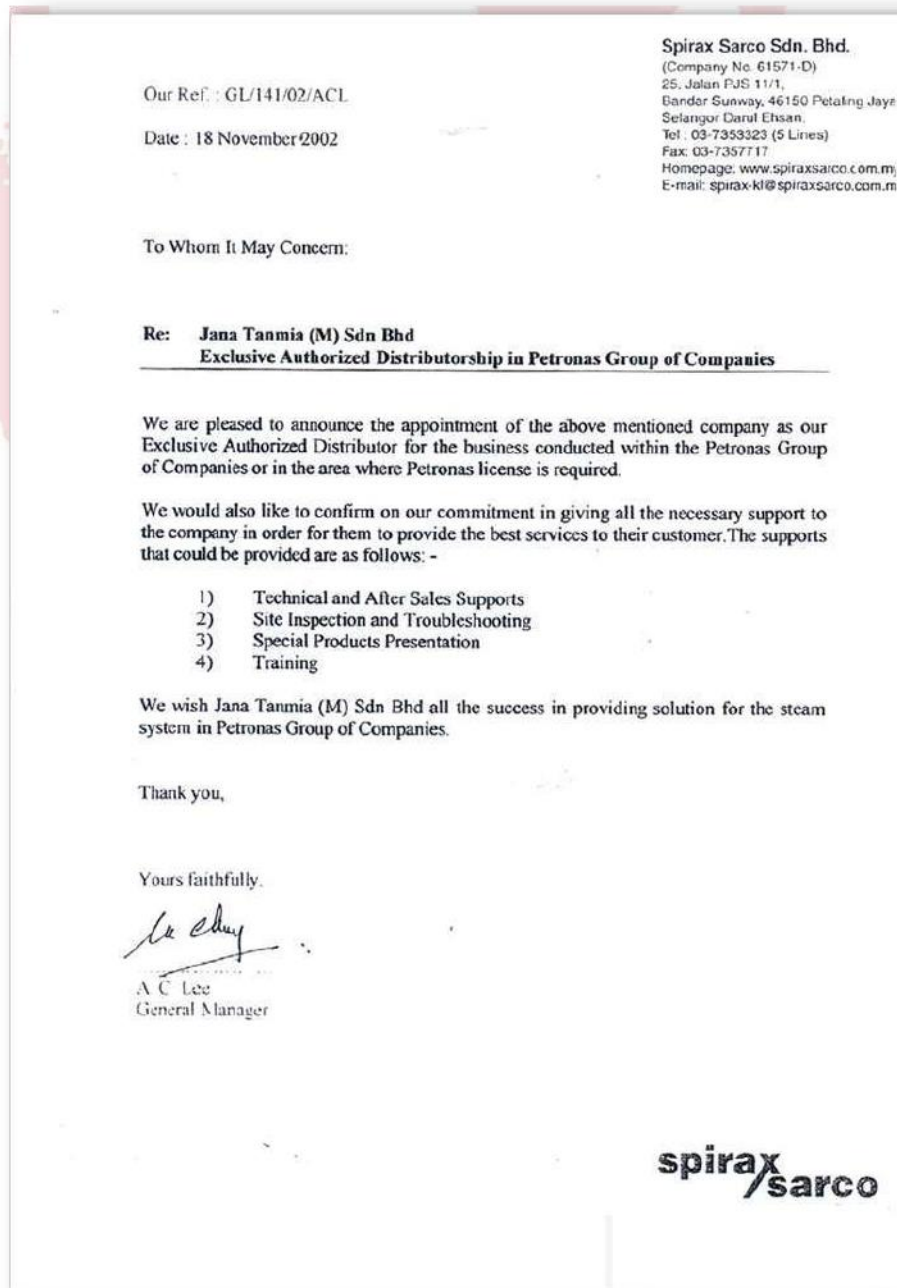
i. SMARTECH



20.0 REFERENCES

20.2 LOCAL

k. SPIRAX SARCO



21.0

FINANCIAL STATUS



21.0 FINANCIAL STATUS



AmBank Group

1. AMBANK GROUP

Address : C102 & C103, Jalan SS 6/2, Kelana Parkview, 47301 Petaling Jaya, Selangor

Overdraft (OD) : RM1,700,000.00

Multi Trade Finance Facilities (MTF) RM1,500,000.00

Letter of Credit (LC) (RM1,500,000.00)

Trust Receipt (TR) (RM1,500,000.00)

Banker Acceptance (BA) (RM1,500,000.00)

Bank Guarantee (BG) (RM1,500,000.00)



2. BAY SMART CAPITAL VENTURES

Address : Unit 13A01, Level 13A, Tropicana Gardens Office Tower, CAPITAL VENTURES 2A, Persiaran Surian, Tropicana Indah, 47810 Petaling Jaya, Selangor

Invoices Financing (Notified) Facility-Islam : RM3,000,000.00

Revolving Credit (RM350,000.00)

Term Financing - Islamic 1 : RM1,000,000.00

Term Financing Islamic 2 : RM1,000,000.00



FACILITY & ENERGY ENGINEERING

382767-D

HEAD OFFICE

No. 11, Jalan Kota Raja H/27H, Hicom Town centre Seksyen 27,
40400 Shah Alam, Selangor Darul Ehsan.

TEL : +603-51914505 | FAX : +603-51914508

EMAIL : enquiry@jtr.my | WEBSITE : www.jtr.my