

COMPANY PROFILE

www.osatechnology.com



OSA Technology Sdn Bhd

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ISO 9001:2008	
ISO 13485:2003 + AC:2009	
EC Directive 93/42/EEC Annex II, Article 3 (CE Marking)	
Adoption Scheme Award Letter from MOH	
SME Competitiveness Rating For Enhancement	
1InnoCERT	
Membership of Federation of Malaysian Manufacturers	
NEWSPAPER ARTICLES	36
Plat Luruskan Tulang Retak Tempatan Source : KOSMO! Rabu, 23 Julai 2008	
116 Firma Dapat Geran RM183.1 Juta Source : Berita Harian, 23 Julai 2008	
TV3, MTDC Terbit Siri Winners Source : Ekonomi @ Berita Harian, 23 Julai 2008	
Bonds Among Options Under Government Study Source : StarBiz @ the Star, 23 July 2008	
OSA Technology Aims To Make Dubai Its Gateway To Middle East Source : Business @Bernama.com, 2 February 2008	
MOU For Bone Plate between IIUM with OSA Technology Sdn Bhd Source : admin@iiumedic.com.my, 31 December 2008	
Produk Implan Buatan Tempatan Source : Ekonomi @ Berita Harian, 9 Mac 2009	
OSA Technology To Tap Demand in Medical Device Industry Source : Business @ New Straits Times, 13 May 2011	
Usahawan Inovatif. Berkongsi rahsia inovasi mereka Source : USAHAWAN @ Buletin PUNB. Januari 2010	
The Edge, 2009	
Gabung 2 bank belum muktamad Source : Utusan Malaysia, 15 Mac 2011	

Corporate Information

Brief History/ Background of Company

OSA Technology Sdn Bhd (OSA) was primarily set up to introduce quality Malaysian made orthopaedic and medical devices to the ASEAN, Southeast Asia and Middle East markets.

Its founder Dr Hyzan Mohd Yusof, an orthopaedic surgeon by profession has been involved in humanitarian work in Malaysia and countries like Afghanistan, Aceh, North Pakistan, Lebanon and other parts of the world. One observation he made from his past experiences was the acute scarcity of quality and affordable medical devices for surgical operations and treatment. Hence, giving rise to concerns for health and safety issues. With this realization, there was no stopping him from establishing OSA with his partners to provide niche orthopaedic products especially implants which are safe, affordable and accessible to patients.

Another aim is to train and build a base of innovative home grown technical specialists who would have the ingenuity to develop and play important roles in the manufacturing process of these devices. For this purpose, OSA has started an education program to impart knowledge and updates on surgical procedures. To enhance quality and raise standards , OSA is at present collaborating with several local universities , namely Universiti Kebangsaan Malaysia, Universiti Islam Antarabangsa and Univeristi Teknologi Mara as well as SIRIM .

Though the world's Medical Devices Industry has come a long way, it is still relatively new and a 'blue ocean' industry in our region. There are a lot of areas to cover and potential to reap as the global market size is at an estimated USD 250 billion. OSA aspires to be in the forefront, not only serving the market domestically but regionally and internationally by producing a whole range of trauma osteosynthesis products. Orthopaedic implants from OSC are widely used in surgical procedures and treatment of fractured bones in all Government hospitals and some private hospitals in Malaysia. We have also succeeded in marketing products to Indonesia, Cambodia and Germany and are linking up with reputable research companies in the US and Europe .



We are most happy to announce that we have satisfied the stringent requirements of the EN ISO13485:2016 and received the prestigious European CE Marking certification.

OSA now is confident to be a global medical manufacturer in a league of its own.

*In order to have that cutting edge advantage, we have to be more
focused, committed and add dynamism to our work.*

~ Dr Hyzan Mohd Yusof



Company Vision and Mission

VISION

To be a leader in orthopaedic and medical device solution provider in South East Asia.

MISSION

- Ideal partner for doctors and healthcare providers.
- Dedicated to provide innovative orthopaedic solutions and advanced wound management.
- To offer affordable solutions to the end users.
- Supplement our organic growth through strategic partnerships.

QUALITY POLICY

OSA Technology Sdn. Bhd. is committed to be an innovative, successful, established, recognized and reputable medical device manufacturer in designing, manufacturing and distributing safe and effective orthopaedic products and to achieve this goal, we shall be:-

Obliging	the needs of our valued customers through our implementation of EN ISO 13485:2016 quality management system.
Supporting	the confidence of our customers through our continual improvement activities in providing safe and effective medical products;
Assuring	the trust of our valued customers through our commitments on quality, service and delivery performance.

OUR VALUES

STANDARD/QUALITY: Internationally certified ASEAN medical device manufacturing company in Malaysia. We aim to deliver quality and value in our products.

INNOVATION: To apply skilled manpower to develop and improve our products and processes. We will continuously search for new ways to improve people's lives.

CARE: Customer focus-understand customer needs. Our trained and skilled staff will go the distance in providing our services.

Corporate Profile

Name	: OSA Technology Sdn. Bhd.
Date of Incorporation	: 25 th February 2004
Registration Office	: MINC Corporate Advisory (M) Sdn. Bhd. Wisma MNC, 36 Jalan Datuk Sulaiman Taman Tun Dr Ismail 60000 Kuala Lumpur
Correspondence Address	: Block C, UKM-MTDC Pusat Teknologi Pintar II Universiti Kebangsaan Malaysia 43600 Bangi, Selangor
Company Registration No.	: 643478 – M
Principle Activities of the company	: Manufacturing of Orthopaedics Trauma Implants
No. of Employees	: 28 employees

Profile of CEO



Dr Hyzan Mohd Yusof | Chief Executive Officer

Present Appointments:

1. Chief Executive Officer – OSA Technology Sdn Bhd
2. Consultant & Surgeon of Orthopaedic – Sunway Medical Centre
3. Vice Chairman of Medical Technology Industry Group – FMM
4. Advisor – Akademi Sains Malaysia for Industry of Medical Device Industry
5. Advisor – Ministry of Health on Medical Device Industry
6. Reviewer – Malaysian Orthopaedic Journal 2008 till present

Past Appointments:

1. Associate Professor of Orthopaedics Department - HUKM
2. Consultant of Orthopaedic & Traumatology – HUKM
3. Coordinator of Trauma Unit – HUKM
4. Head of Sport Injury Unit – HUKM
5. Lecturer – Universiti Kebangsaan Malaysia
6. Honorary Secretary of Malaysian Orthopaedic Association
7. Exco member of Malaysia Relief Agency

Academic Qualifications:

1. Master of Surgery (Orthopaedic) - UKM
2. Medical Doctor – UKM
3. Sub-specialty course on Trauma - University of Alabama, Birmingham, United States

Local & International Achievement:

Steering Committee Member for AO International representing Malaysia
 Scientific Chairman for Asean Orthopaedic Congress 2003
 (AAOS) Scholarship Award 2005
 Most Outstanding Malaysian of The Year 2005
 AAOS nominee for Humanitarian Award 2007
 Quality Award for the Best Innovation for the External Fixator System
 The Outstanding Young Malaysian Award
 Humanitarian and relief works in various countries such as Pakistan, Afghanistan, Cambodia, Lebanon, Aceh, Indonesia, Syria and more

MANUFACTURING AND OPERATIONAL PLAN

Technology Application

OSA production facility is equipped with the latest precision engineering and computer-aided-design (CAD) tooling and machineries.

The production floor is lined with Parting Machine, CNC Lathe, Drilling, Milling and Punching Machine, Bench Grinder, ElectroChemical Dipping Bath, Shadow Graph and Laser Marker Machine.

Design and development activities are performed with CAD computer system and later providing a 3D rendering before a prototype is produced. These activities aimed to ensure speed and accuracy from conceptualization to realization.

Product Improvement and New Products

Up to date OSA Technology Sdn Bhd has developed product improvement on external fixation device. External fixation is a surgical treatment used to set bone fractures and is accomplished by placing pins or screws into the bone on both sides of the fracture. The pins are then secured together outside the skin with clamps and rods. The improved external fixation device by OSA Technology Sdn Bhd will allow easy procedure for orthopedic surgeon to install the device on patients with simplified surgical instruments.

OSA Technology Sdn Bhd also is currently developing '**OSA Orthopedic Trauma Locking System**' for bone fixation fracture. The device is used to align and treat fracture and to provide better purchase in poor quality bone and equivalent purchase with fewer screws, and also to limit screw pullout by functioning as fixed-angled device. This provides numerous potential advantages to standard plates.

BUSINESS OVERVIEW

Products to Market

Current Products

- Osteosynthesis Products
 - Mini Fragment Implant & instruments
 - Small Fragment Implants & Instruments
 - Large Fragment (DCP & LC DCP) Implants & Instruments
 - Cannulated Screws Implants & Instrument
 - Reconstruction Implant & Instruments
 - Hip Plates (DHS & DCS) Implants & Instruments
 - Austin Moore & Thompson Hip Implants & Instruments
 - Angle Blade Plates Implants & Instruments
 - External Fixation Devices & Instruments
 - Kunstcher Intramedullary Nails & Instruments
 - Wire (K-Wire & Cerclage Wire) & Instruments
 - Steinman Pins, Schanz Screws

Future Products

- Locking Plates
- Intramedullary Fixation
 - Femoral Nails
 - Tibial Nails
 - Humerus Nails
 - Recon Nails
 - Proximal Femoral Nails
- Spinal Fixation
 - Anterior cervical Plates
 - Pedicle Screws & Rod System
 - Intervetebraal Disc Devices- Fusion and Non Fusion

OSA Products and Services

OSA Technology is marketing the trauma range of products; plates & screws system, wires, pin system, nailing system, external fixator system, hip prosthesis. Thus, OSA is currently focused on the manufacturing and marketing of bone fixation products. The products that OSA is currently manufacturing are:

- a. **Mini Fragment** Orthopaedics implants, consisting of;
 - i. Narrow Compression Plate
 - ii. Cortical Screw, diameter 1.5mm, 2.0mm & 2.7mm

- b. **Small Fragment** Orthopaedics implants, consisting of;
 - i. Narrow Dynamic Compression Plate
 - ii. Cortical Screw, diameter 3.5mm
 - iii. Cancellous Screw, diameter 3.5mm & 4.0mm
 - iv. Screw Washer
 - v. Low Contact Dynamic Compression Plate
 - vi. Straight Reconstruction Plate
 - vii. One Third Tubular Plate
 - viii. Small T-Plate (Right Angled / Obliqued Angled)

- c. **Large Fragment** Orthopaedics implants, consisting of;
 - i. Narrow Dynamic Compression Plate
 - ii. Broad Dynamic Compression Plate
 - iii. Cortical Screw and Self Tapping Cortical Screw, diameter 4.5mm & 6.5mm
 - iv. Cancellous Screw, diameter 6.5mm
 - v. Malleolar Screw, diameter 4.5mm
 - vi. Screw Washer
 - vii. Low Contact Narrow Dynamic Compression Plate
 - viii. Low Contact Broad Dynamic Compression Plate
 - ix. Straight Reconstruction Plate
 - x. Semi Tubular Plate
 - xi. Steinmann Pins with Single or Double end trocar tips
 - xii. Schanz Screw
 - xiii. Kirschner Wires
 - xiv. Clover Leaf Plate
 - xv. Buttress Plate , T and L shape
 - xvi. Condylar Buttress Plate
 - xvii. Lateral Tibial Plate

- d. **External Fixator** (Lower Extremities), consisting of;
- i. Bar to Bar coupling
 - ii. Pin to Bar coupling
 - iii. End Coupling
 - iv. Schanz Screw

Sample of Products Done By OSA Technology Sdn Bhd



Large Fragment Plates



Small Fragment Plates



Mini Fragment Plates



Nails, Pins and Wires



Cancellous Screws, Cortical Screws, Malleolar Screws, Cannulated Screws and Washers



Blade Plates



DHS Plates



Protheses Implants

LETTER OF SUPPORT



SURUHANJAYA SYARIKAT MALAYSIA
COMPANIES COMMISSION OF MALAYSIA

BORANG 9
AKTA SYARIKAT, 1965

CERTIFIED TRUE COPY


Nor Animi @ Norlaila Binti Septi
Company Secretary
BC/N/472

Seksyen 16 (4)

No. Syarikat

643478 M

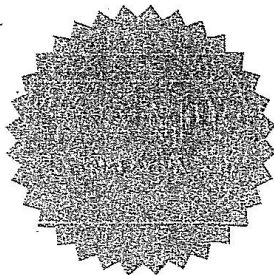
PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN

Adalah diperakui bahawa

OSA TECHNOLOGY SDN. BHD.

telah diperbadankan di bawah Akta Syarikat, 1965 pada dan mulai
dari 25 haribulan Februari 2004 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 25 haribulan Februari 2004



PUTEH BT MAHMOOD
PENOLONG PENDAFTAR SYARIKAT
MALAYSIA

[Borang ini diterjemahkan oleh Penguat Negeri Malaysia menurut Pemberitahuan Undang-kan No. 12 tahun 1964: PN (SBK) 23 Pt. 11. P.S. 7/51 Jld.2]

Akuan Pendaftaran Lesen Perniagaan



MAJLIS PERBANDARAN KAJANG

Menara MPKJ, Jalan Cempaka Putih, Off Jalan Semenyih
43000 Kajang, Selangor Darul Ehsan
No. Tel : 03-8737 7899 Fax: 03-8877 8897 / 8733 3801

LESEN TRED, PERNIAGAAN & PERINDUSTRIAN

OSA TECHNOLOGY SDN. BHD.
PERINDUSTRIAN
BLK.C,UKM-MTDC TECH.CTR.2,, UNI.KEB.MSIA,,
BANGI,SELANGOR.

No. Akaun : L-22184

No. Fail : MPKJ/CL/10/172/2007

Tarikh Mula : 01/01/2019

Tarikh Luput : 31/12/2019

KOD RUJUKAN	BUTIR-BUTIR LESEN	BILANGAN
33-003-02	AKT INDSTR TDK TMSK DLM JDL HGA 500M PSG - MEMBORONG/MENYIMPAN BAHAN MENTAH	1
33-003-02	AKT INDSTR TDK TMSK DLM JDL HGA 500M PSG - MEMBORONG/MENYIMPAN HASIL KELUARAN	1
33-004-01	PERCETAKAN SEHINGGA 500M PSG - MEMBUAT/MEMPROSES LABEL	1
33-023-01	AKT INDSTR TDK TMSK DLM JDL HGA 500M PSG - MEMBUAT/MEMPROSES MEDICAL- ORTHOPEDIC IMPLANT	1
37-001-00	CAJ STICKER	1

Lesen ini sah untuk tempoh 11 bulan bermula dari tarikh 01/01/2019



NO. RESIT : 39020138

TARIKH BAYAR : 10/01/2019

Yang Dipertua Majlis Perbandaran Kajang



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT

NO. SIJIL : K60774153652310836
NO. RUJUKAN PENDAFTARAN : 357-02077185
TEMPOH SAH LAKU : 19/07/2019 - 18/07/2022

Bahawa dengan ini diperakui syarikat :

OSA TECHNOLOGY SDN BHD (643478-M)
BLOCK C, UKM-MTDC SMART TECHNOLOGY CENTRE 2
UNIVERSITI KEBANGSAAN MALAYSIA
SEPANG
43600 BANDAR BARU BANGI
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 :

HYZAN BIN MOHD YUSOF	651125015345	PAKAR BEDAH ORTHOPEDIK
NORHASHIKIN BTE ABD RAOP	811001105584	SENIOR HR EXECUTIVE
MUZAFFAR SHAH BIN MOHAMAD ABIDIN	721029085395	SENIOR PURCHASING EXECUTIVE
ZULKIFLI BIN HAJI AHMAD	780901045143	OPERATION MANAGER

t.t

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

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 19/07/2019

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

NO SIJIL : K60774153652310836
 NO RUJUKAN PENDAFTARAN : 357-02077185
 TEMPOH SAH LAKU : 19/07/2019 - 18/07/2022

BIL	TARIKH DAFTAR BIDANG	KOD BIDANG	KETERANGAN	STATUS
1	18/07/2019	020804	PERABOT, PERALATAN PEJABAT, HIASAN DALAMAN DAN DOMESTIK/ PAKAIAN DAN KELENGKAPAN/ PAKAIAN KESELAMATAN, KELENGKAPAN DAN AKSESORI	Aktif
2	18/07/2019	050101	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PERALATAN HOSPITAL, BAHAN DAN KELENGKAPAN PERUBATAN/ PERALATAN DAN KELENGKAPAN HOSPITAL	Aktif
3	18/07/2019	050102	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PERALATAN HOSPITAL, BAHAN DAN KELENGKAPAN PERUBATAN/ PERALATAN / KELENGKAPAN PERUBATAN	Aktif
4	18/07/2019	050301	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PEKAKAS, TEKSTIL DAN PAKAIAN PERUBATAN PAKAI BUANG/GUNA SEMULA/ PERKAKAS PERUBATAN PAKAI BUANG	Aktif
5	18/07/2019	050399	PERALATAN HOSPITAL, PERUBATAN, UBAT-UBATAN DAN FARMASEUTIKAL/ PEKAKAS, TEKSTIL DAN PAKAIAN PERUBATAN PAKAI BUANG/GUNA SEMULA/ PEMBUAT(ORTHOPAEDIC DEVICES)	Aktif
6	18/07/2019	060101	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ KIMIA/ KIMIA MAKMAL	Aktif
7	18/07/2019	060501	KIMIA, BAHAN KIMIA DAN PERALATAN MAKMAL/ PERALATAN MAKMAL/ PERALATAN MAKMAL SERTA AKSESORI	Aktif
8	18/07/2019	120401	PERTAHANAN DAN KESELAMATAN/ PERALATAN KESELAMATAN DAN PENGUATKUASAAN/ ALAT KESELAMATAN,PERLINDUNGAN DAN KAWALAN PERLINDUNGAN	Aktif
9	18/07/2019	120601	PERTAHANAN DAN KESELAMATAN/ PERLINDUNGAN KEBAKARAN/ SISTEM PENCEGAHAN KEBAKARAN	Aktif
10	18/07/2019	120602	PERTAHANAN DAN KESELAMATAN/ PERLINDUNGAN KEBAKARAN/ PERALATAN KAWALAN API	Aktif
11	18/07/2019	130201	PERALATAN KEJURUTERAAN DAN MESIN PENGELUARAN/ JANAKUASA ELEKTRIK DAN PERALATAN GENERATOR/ALAT GANTI DAN BATERI/ JANAKUASA,PERALATAN/ALAT GANTI/AKSESORI(SECONDARY)	Aktif
12	18/07/2019	140101	PERALATAN KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK/ MESIN DAN JENTERA PENJANAAN DAN PENGAGIHAN TENAGA ELEKTRIK SERTA AKSESORI/ MOTOR DAN ALATUBAH/ALATGANTI	Aktif
13	18/07/2019	140201	PERALATAN KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK/ STESEN JANAKUASA ELEKTRIK DAN PERALATAN GENERATOR/ALAT GANTI DAN BATERI/ STESEN JANAKUASA, PERALATAN/ALAT GANTI/AKSESORI(PRIMARY)	Aktif
14	18/07/2019	140301	PERALATAN KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK/ KABEL, WAYAR ELEKTRIK DAN AKSESORI/ KABEL ELEKTRIK DAN AKSESORI	Aktif
15	18/07/2019	140302	PERALATAN KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK/ KABEL, WAYAR ELEKTRIK DAN AKSESORI/ WAYAR ELEKTRIK DAN AKSESORI	Aktif

16	18/07/2019	140503	PERALATAN KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK/ SISTEM, KOMPONEN ELEKTRIK, ELEKTRONIK, LAMPU DAN AKSESORI/ LAMPU,KOMPONEN LAMPU DAN AKSESORI	Aktif
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Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 19/07/2019

SYARAT KELULUSAN SIJIL AKUAN PENDAFTARAN SYARIKAT

1. SYARAT AM

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

2. PENGGANTUNGAN/PEMBATALAN PENDAFTARAN

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

3. PEMBAHARUAN

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

4. HAK KERAJAAN

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

5. PENYERTAAN PEROLEHAN KERAJAAN

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

6. PERINGATAN MENGENAI KESALAHAN RASUAH

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



KEMENTERIAN KEWANGAN MALAYSIA

SIJIL AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

NO. SIJIL : BP60774153652310836
NO. RUJUKAN PENDAFTARAN : 357-02077185
TEMPOH SAH LAKU : 19/07/2019 - 18/07/2022

Bahawa dengan ini diperakui syarikat :

OSA TECHNOLOGY SDN BHD (643478-M)
BLOCK C, UKM-MTDC SMART TECHNOLOGY CENTRE 2
UNIVERSITI KEBANGSAAN MALAYSIA
SEPANG
43600 BANDAR BARU BANGI
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).

t.t

DATO' ZAMZURI BIN ABDUL AZIZ

Perbendaharaan Malaysia Semenanjung
b.p. Ketua Setiausaha Perbendaharaan
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia :

19/07/2019

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

SYARAT KELULUSAN SIJIL AKUAN PENDAFTARAN SYARIKAT BUMIPUTERA

1. SYARAT AM

- 1.1 Pihak syarikat hendaklah sentiasa berusaha untuk mengekal dan mempertingkatkan kedudukan supaya:
 - 1.1.1 Kedudukan majoriti Bumiputera hendaklah sentiasa melebihi 51% di dalam pemilikan ekuiti, keahlian Lembaga Pengarah, jawatan Kettua Eksekutif, Pengarah Urusan atau Pengurus Besar, jawatan-jawatan penting lain(*Key post*), Kakitangan syarikat di peringkat pengurusan dan juga pekerja.
 - 1.1.2 Bagi bidang percetakan, kedudukan 100% Bumiputera hendaklah sentiasa dikekalkan dari segi ekuiti, Lembaga Pengarah/ Pengarah, Pengurusan dan Pengurusan Kewangan. Bagi pekerja hendaklah tidak kurang 80% Bumiputera dan tiada penglibatan bukan warganegara.
 - 1.1.3 Bagi bidang agen pengembaraan, kedudukan 100% Bumiputera hendaklah sentiasa dikekalkan dari segi ekuiti, Lembaga Pengarah/ Pengarah, Pengurusan, Pengurusan Kewangan dan pekerja.
 - 1.1.4 Secara majoriti Bumiputera memainkan peranan penting di dalam urus niaga syarikat, pengawasan perjalanan syarikat, pengurusan kewangan syarikat, membuat keputusan-keputusan penting dan mewakili syarikat di dalam mesyuarat-mesyuarat dan lain-lain urusan rasmi seumpamanya.
- 1.2 Jika berlaku sebarang perubahan di dalam syarat-syarat yang dinyatakan di atas, maka pihak Kementerian Kewangan hendaklah diberitahu dengan segera supaya pindaan dapat dibuat di dalam Rekod Pendaftaran. Setiap perubahan ke atas maklumat tersebut hendaklah dikemaskinikan secara *online* di Modul Kemaskini Profil di alamat www.eperolehan.gov.my dalam tempoh masa dua puluh satu (21) hari dari tarikh perubahan tersebut berlaku. Kegagalan syarikat di dalam memberikan maklumat tersebut boleh menimbulkan keraguan pihak Kementerian Kewangan Malaysia terhadap ketulenan taraf Bumiputera syarikat.
- 1.3 Sekiranya Kementerian Kewangan Malaysia mendapati syarikat telah melanggar syarat-syarat yang ditentukan di atas, ataupun telah menyerahkan pengurusan syarikat dan kontrak yang diperolehi kepada pihak-pihak lain, maka pengiktirafan sebagai syarikat Bumiputera akan ditarik balik dan status dibatalkan dalam sistem ePerolehan.

2. PENGGANTUNGAN/PEMBATALAN PENDAFTARAN

- 2.1 Kementerian Kewangan berhak mengenakan tindakan tataertib ke atas syarikat dan membatalkan maklumat berkaitan pendaftaran syarikat sekiranya:
 - 2.1.1 Taraf Bumiputera syarikat dilucutkan atau ditarik balik dan dibatalkan dalam Sistem ePerolehan.
 - 2.1.2 Pendaftaran syarikat digantung atau dibatalkan dalam Sistem ePerolehan.
 - 2.1.3 Lain-lain pelanggaran syarat yang membolehkan Kementerian Kewangan Malaysia memutuskan taraf Bumiputera ditarik balik dan dibatalkan dalam Sistem ePerolehan.

3. HAK KERAJAAN

- 3.1 Sijil Akuan Pendaftaran Syarikat Bumiputera yang dikeluarkan secara manual atau *Virtual* adalah HAK KERAJAAN dan semua maklumat dalam Sistem ePerolehan adalah muktamad.

4. PENYERTAAN PEROLEHAN KERAJAAN

- 4.1 Sijil Akuan Pendaftaran Syarikat Bumiputera tidak perlu ditunjukkan semasa mengambil dokumen perolehan Kerajaan (pembelian terus, tender/sebut harga dan lain-lain kaedah perolehan) kecuali bagi Agensi Kerajaan yang tiada capaian internet.
- 4.2 Syarikat hendaklah memastikan pendaftaran dengan Kementerian Kewangan Malaysia masih sah laku sepanjang tempoh kontrak berkuat kuasa.

5. PERINGATAN MENGENAI KESALAHAN RASUAH

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

Voluntary Medical Devices Establishment Registration (MeDVER)



Voluntary Medical Devices Establishment Registration (MeDVER)
Biro Peralatan Perubatan
Kementerian Kesihatan Malaysia
Aras 4, Blok E6, Parcel E, Presint 1,
Pusat Pentadbiran Kerajaan Persekutuan,
62590 Putrajaya, Malaysia.

Our Ref: (342) KKM-MeDVER

File Reference : M-0000637

Submission ID: S-000716

OSA TECHNOLOGY SDN BHD
(643478-M)
BLOCK C, UKM-MTDC PUSAT
TEKNOLOGI PINTAR II.,
UNIVERSITI KEBANGSAAN
MALAYSIA

Tarikh : 07/08/2008

Tuan/Puan,

Permohonan Pendaftaran Syarikat Peralatan Perubatan Dengan MeDVER

Merujuk kepada perkara diatas, sukacita dimaklumkan bahawa permohonan untuk mendaftar syarikat tuan dengan MeDVER telah berjaya.

Nombor pendaftaran tuan adalah: **A-000342**

Sila gunakan nombor pendaftaran dalam semua urusan dengan MeDVER.

Sekian.

Biro Peralatan Perubatan
Kementerian Kesihatan Malaysia
Aras 4, Blok E6, Parcel E, Presint 1,
Pusat Pentadbiran Kerajaan Persekutuan,
62590 Putrajaya, Malaysia.



ISO 13485:2016



Certificate

The Certification Body of
TÜV Rheinland LGA Products GmbH

hereby certifies that the organization
OSA Technology Sdn Bhd
Block C, UKM - MTDC
Smart Technology Centre II
Universiti Kebangsaan
43600 Bangi, Selangor D.E.
Malaysia

has established and applies a quality management system for medical devices
for the following scope:

**Design and Development, Manufacture and Distribution of
Non-sterile Orthopaedic Trauma Fixation Implants**

Proof has been furnished that the requirements specified in

EN ISO 13485:2016

are fulfilled. The quality management system is subject to yearly surveillance.

Effective Date: 2019-04-05
Certificate Registration No.: SX 60138315 0001
An audit was performed. Report No.: 12031260 005
This Certificate is valid until: 2021-08-03



Date 2019-04-05

Certification Body



Masahiro Asami

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
Tel.: +49 221 806-1371 Fax: +49 221 806-3935 e-mail: cert-validity@de.tuv.com http://www.tuv.com/safety

TÜV, TÜV and TÜV are registered trademarks. Use on end products requires prior approval.

Adoption Scheme Award Letter from MOH

**TIMBALAN KETUA SETIAUSAHA (KEWANGAN)***Deputy Secretary General (Finance)***KEMENTERIAN KESIHATAN MALAYSIA***Ministry of Health Malaysia**Aras 12, Blok E7, Kompleks E,
Pusat Pentadbiran Kerajaan Persekutuan,
62590 Putrajaya.*

Telefon : 03 - 88832542

Fax : 03 - 88885461

(A) dlm. KKM(S)-57/T6/25Jld.27

27 Mei 2010

Ketua Pegawai Eksekutif
OSA Technology Sdn. Bhd.
Blok C, UKM-MTDC
Smart Technology Centre II
Universiti Kebangsaan Malaysia
43600 Bangi
SELANGOR DARUL EHSAN

Tuan,

**PELANTIKAN SEBAGAI SYARIKAT SKIM ANAK ANGKAT DI BAWAH
KEMENTERIAN KESIHATAN MALAYSIA**

Dengan hormatnya saya merujuk kepada perkara di atas.

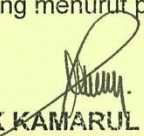
2. Dimaklumkan bahawa Kementerian Kewangan melalui surat bertarikh 14 April 2010 telah **meluluskan** pelantikan syarikat tuan sebagai syarikat Skim Anak Angkat di bawah Kementerian Kesihatan Malaysia (KKM) bagi tempoh tiga (3) tahun bagi membekalkan produk-produk seperti di **Lampiran A**.

3. Sehubungan itu, memandangkan pembekalan produk-produk *Approved Products Purchase List* adalah melalui syarikat konsesi Penswastaan Makmal Ubat dan Stor KKM iaitu Pharmaniga Logistics Sdn. Bhd. (PLSB), PLSB akan mengemukakan anggaran kuantiti produk-produk terlibat bagi mendapatkan tawaran harga daripada pihak tuan. Justeru, sila pihak tuan berhubung dengan pihak PLSB mengenai perkara ini.

Sekian, terima kasih.

"BERKHIDMAT UNTUK NEGARA"

Saya yang menurut perintah,


(DATUK KAMARUL ZAMAN BIN MD. ISA)b.p. Ketua Setiausaha
Kementerian Kesihatan Malaysia



SME Competitiveness Rating For Enhancement



1InnoCERT

Membership of Federation of Malaysian Manufacturers



NEWSPAPER ARTICLE

PLAT LURUSKAN TULANG RETAK TEMPATAN

TEKNOLOGI TEMPATAN. Jika sebelum ini mereka yang mengalami keretakan atau kepatahan tulang akibat kemalangan memerlukan kos yang tinggi untuk merawatnya, namun kini rawatan dapat dilakukan dengan lebih murah melalui teknologi plat pemapan dinamik dan skru dalam tempelan ortopedik keluaran tempatan.

Menurut Ketua Eksekutif OSA Technologies Sdn. Bhd., Dr. Hyzan Mohd. Yusof, sebelum ini peralatan tersebut dimpor dari England menyebabkan kos pemasangannya agak mahal.

"Namun teknologi ini kini dikeluarkan oleh syarikat ini di makmal kami di Bangi," katanya pada pelancaran program dokumentari siri kedua *Winners* terbitan TV3 oleh Menteri Kewangan Kedua, Tan Sri Nor Mohamed Yakcop di Bangi semalam.

Menurutnya, pemasangan alat tersebut bergantung kepada jenis keretakan yang dialami dan tujuannya adalah untuk mengekalkan atau meluruskan tulang yang patah atau retak.

Plat tersebut mempunyai pelbagai jenis dan saiz seperti 4.5 serta 3.5 milimeter.

Winners merupakan sebuah program TV berbentuk dokumentari mengenai 12 syarikat berteknologi tinggi yang terpilih dan berjaya mengembangkan perniagaan masing-masing serta memberi inspirasi dalam penerokaan bidang teknologi.



HYZAN menunjukkan alat plat pemapan yang dipasang pada tulang retak di Bangi semalam.

KOSMO! Rabu, 23 Julai 2008

116 firma dapat geran RM183.1j

Dana untuk bantu syarikat komersialkan penyelidikan, pembelian teknologi

Oleh Kamarulzaidi Kamis
kamarulzaidi@berita-harian.com.my

PERBADANAN Pembangunan Teknologi Malaysia (MTDC) sudah menyalurkan geran berjumlah RM183.1 juta kepada 116 syarikat di bawah Rancangan Malaysia Kesembilan (RMK-9) bagi membantu mereka mengkomersialkan penyelidikan serta pembelian teknologi.

Menteri Kewangan Kedua, Tan Sri Nor Mohamed Yakcop, berkata daripada jumlah itu, RM161.6 juta diberikan kepada 94 syarikat di bawah Geran Komersial Pembangunan dan Penyelidikan (CDRF), manakala RM21.5 juta kepada 22 syarikat menerusi Geran Perolehan Teknologi.

"Di bawah RMK-9, kerajaan memperuntukkan RM4.275 bilion kepada Kementerian Sains, Teknologi dan Inovasi (Mosti) untuk disalurkan menerusi pelbagai agensi untuk pembangunan teknologi.

"Daripada jumlah itu, RM257.5 juta disalurkan melalui MTDC yang menguruskan geran CDRF dan TAF," katanya pada pelancaran siri dokumentari usahawan teknologi, *Winners* terbitan TV3 di Bangi, semalam.

Hadir sama Timbalan Menteri Sains, Teknologi dan Inovasi, Fadillah Yusof; Ketua Eksekutif MTDC, Norhalim Yunus; Pengerusi Media Prima Bhd, Datuk Abdul Mutalib Mohamed Razak dan Ketua Eksekutif Sistem Televisyen Malaysia Bhd, Datuk Amrin Awaluddin.

Nor Mohamed berkata, sains dan teknologi amat penting sebagai pemacu peningkatan produktiviti dan daya saing negara, justeru, kerajaan amat komited untuk meningkatkan keupayaan penyelidikan dan pembangunan (R&D) serta daya inovasi negara dalam peralihan ke arah ekonomi yang memiliki nilai tambah lebih tinggi.

Malaysia kini, katanya sedang beralih daripada



BERKUALITI: Nor Mohamed melihat produk dihasilkan peserta *Winners*, Dr Hyzan Yusof (kanan) selepas merasmikan rancangan TV - *Winners* di Bangi, semalam. Turut sama, Fadillah (kiri) dan Mutalib (dua dari kiri).

'model ekonomi gaji murah' kepada 'model ekonomi gaji tinggi' yang menumpu kepada ekonomi berintensif modal, teknologi dan pengetahuan.

"Justeru, negara memerlukan modal pekerja yang terlatih dan usahagigih diperlukan untuk menghasilkan lebih ra-

FAKTA NOMBOR

RM4.275b
peruntukan

Di bawah RMK-9 kepada Kementerian Sains, Teknologi dan Inovasi untuk disalurkan menerusi pelbagai agensi untuk pembangunan teknologi

mai penyelidikan, saintis dan jurutera," katanya.

Bagi memastikan R&D dikomersialkan, Nor Mohamed berkata, usaha akan diteruskan untuk menggalakkan pemindahan teknologi dari Universiti dan institusi penyelidikan kepada sektor industri untuk digunakan.

Berita Harian, 23 Julai 2008

Bonds among options under government study

BANGI: The Government will consider various options including issuing bonds to face the current economic challenges, Second Finance Minister Tan Sri Nor Mohamed Yakcop said.

As the Government was in the midst of drawing up Budget 2009, it would certainly study ways to move forward to find new measures in overcoming the challenges and the issuing of bonds would be given consideration, he said when asked if it would be issuing inflation-linked bonds.

Speaking after the launch of a television documentary "Winners Season 2", Nor Mohamed said the Government will continue to assist young innovative entrepreneurs in the high-technology industry through various grants channelled through the Science, Technology and Innovation Ministry and agencies such as Malaysian Technology Development Corp (MTDC).

He said MTDC was one of the

conduits to promote and encourage local research and investment in new ventures with new technologies from abroad.

Under the Ninth Malaysia Plan, the Government has allocated about RM4.28bil for technology development.

Of the allocation, about RM257.5mil was channelled to MTDC for the commercial research and development fund (CRDF) and technology acquisition fund (TAF).

According to MTDC representative Norhalim Yunus, 94 companies were selected among 120 applicants for CRDF valued at RM161.6mil.

Meanwhile, only 22 out of 35 applicants were selected for TAF valued at RM21.5mil, he said.

Companies awarded the grants included OSA Technology Sdn Bhd, Gas Generators (M) Sdn Bhd, Steampro Conservation Sdn Bhd, CEMS Engineering Sdn Bhd, CEMS Engineering Sdn Bhd and I-Green (M) Sdn Bhd.

StarBiz @ The Star, 23 Julai 2008

Business @ Bernama, 2 Februari 2008

Bernama.com**Business**

February 02, 2008 15:05 PM

OSA Technology Aims To Make Dubai Its Gateway To Middle East

DUBAI, Feb 2 (Bernama) -- OSA Technology Sdn Bhd, the first Malaysian company to produce orthopaedic surgical implants and instrumentation systems, is eyeing Dubai as its gateway to the Middle East market.

Chief executive officer Dr Hyzan Mohd Yusof said the company is in talks with the Malaysia External Trade Development Corporation (Matrade) to realise this objective.

"We're choosing Dubai as it can be the gateway to many other Middle East countries," he told Bernama on the sidelines of the just-concluded Arab Health exhibition, the region's premier event for the healthcare industry participated by about 65 countries, including Malaysia.

OSA Technology started its operations at the Smart Technology Centre II in Universiti Kebangsaan Malaysia in Bangi in June 2007, and is undergoing a certification exercise for the ISO 13485:2003 and CE Marketing for its products.

"We should achieve that in March," said Dr Hyzan of the company which is also aiming to capture markets in Malaysia and Southeast Asia besides the Middle East.

Dr Hyzan, who is a consultant orthopaedic & trauma surgeon at Sunway Medical Centre in Petaling Jaya, disclosed that OSA Technology is in discussion with a multinational company with a view to concluding a joint-venture arrangement that can accelerate OSA Technology's growth.

"This is because making medical devices takes a long period but we want them to be on the table or in the market soon. If we go through the normal process, it'll take a long time, so we have to cut it short," said Dr Hyzan, who is also active in humanitarian work in Middle Eastern countries like Lebanon and Syria over the past few years.

He said OSA Technology came into being after receiving a RM2.89 million research & development grant from the Malaysian Technology Development Corporation (MTDC) and a further RM1.8 million as a soft loan from Perbadanan Usahawan Nasional Bhd.

"MTDC has looked at our marketing plan and our vision," he said, thankful for the government's backing.

"The policy (to develop entrepreneurs) is there but the mechanism is not too friendly to entrepreneurs like us," he remarked.

"And here in Dubai - this is our first foray into the international market - we have received enquiries from countries like Syria, Pakistan, Iraq and the Emirate of Dubai itself."

He observed that Malaysia is viewed as a country that produces high-quality products and assured that OSA Technology will do just that with the latest machines bought from Japan and raw materials sourced from Britain.

The presence of several Malaysian companies at the Arab Health exhibition was arranged by Matrade.

— BERNAMA

admin@iiumedic.com, 31 Disember 2008

MOU for Bone Transplant Technology



Kuantan: Department of Orthopaedics, Traumatology and Rehabilitation, Kulliyah of Medicine, International Islamic University Malaysia (IIUM) was organized MoU Signing Ceremony between IIUM with OSA Technology Sdn. Bhd (OSA) and Granulab (M) Sdn. Bhd. The main purpose of this collaboration is to enhance the research and development in IIUM and networking with the industries. The event then was officiated by Y. Bhg. Prof. Dato' Sri Dr. Syed Arabi Idid, Rector, International Islamic University Malaysia. This event was started at

2.15pm. The event started with doa recited by Ustaz Kamarulzaman. In the open ceremony Speech, Y. Bhg. Prof. Dato' Sri Dr. Syed Arabi Idid said that MoU signing is good for development research activities and commercialize IIUM product. After the open ceremony speech, the event was continued with MoU signing started by OSA Technology Sdn. Bhd. The Iium was deputed by Y. Bhg. Prof. Dato' Sri Dr. Syed Arabi Idid and OSA Technology were deputed by their Chief Executive Officer, Dr. Hyzan Mohd Yusof meanwhile, the witnesses for this memorandum is Y. Bhg Prof. Dato' Dr. Md. Tahir Azhar and Mr. Mohd Azfar bin Che Azmi.

The event was continued with MoU signing between IIUM and Granulab (M) Sdn. Bhd. The Iium also deputed by Y. Bhg. Prof. Dato' Sri Dr. Syed Arabi Idid and Granulab (M) was deputed by their Managing Director, Mr. Romli Ishak meanwhile, the witness for Granulab is Mr. Ghazali Ibrahim from Sindora Berhad. After the signing, there having the photographies session and souvenir's exchange between IIUM and companies. After that, Y. Bhg. Prof. Dato' Sri Dr. Syed Arabi Idid officiated the Orthopaedics Research Laboratory at level 3, IIUM, Jalan Hospital Campus. The Orthopaedics Research Lab well known as one of the best laboratory in IIUM and have the modern machines and facilities such as Undecalcified Tissue Processing System using Exact Machine System and High up microscope. The Orthopaedics Research Lab has been awarded Bionexus Partner Programme from Malaysia Biotechnology Corporation and among the first laboratory in Malaysia accredited by Bionexus Partner Programme. He satisfied with the equipments and facilities in this lab and hopes to be success in the future. The event ended at 4pm.

Ekonomi @ Berita Harian, 9 Mac 2009

Produk implan buatan tempatan

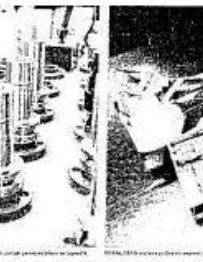
Dr Hyzan dan rakan kongsi tabah hadapi cabaran jana modal hasilkan alat pembedahan ortopedik di dalam negara



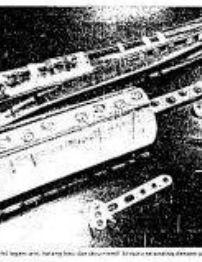
Dr Hyzan Mohd Yusof, founder and orthopaedic surgeon of OSA Technology, is seen in a laboratory setting, working on a surgical implant.



Dr Hyzan Mohd Yusof, founder and orthopaedic surgeon of OSA Technology, is seen in a laboratory setting, working on a surgical implant.



Dr Hyzan Mohd Yusof, founder and orthopaedic surgeon of OSA Technology, is seen in a laboratory setting, working on a surgical implant.



Dr Hyzan Mohd Yusof, founder and orthopaedic surgeon of OSA Technology, is seen in a laboratory setting, working on a surgical implant.



Dr Hyzan Mohd Yusof, founder and orthopaedic surgeon of OSA Technology, is seen in a laboratory setting, working on a surgical implant.



En Norhalim Yumas
CEO, MTDC

“Research and Development is the key for continuous innovation in a technology-based company. Small high-tech companies need linkages with universities to enable them to develop technologies more efficiently. MTDC's university-based Technology Centre creates a favourable growth environment for nurturing and grooming new technology-based companies to achieve higher rate of successful commercialisation.”

Commercialises products by setting up a manufacturing plant

OSA Technology to tap demand in medical device industry

OSA Technology Sdn Bhd hopes to be a premier manufacturer of medical devices over the next five years.

Besides producing orthopaedic medical devices, the company plans to expand into producing artificial legs and limbs and developing more advanced components within the medical devices.

Founder and orthopaedic surgeon Dr Hyzan Mohd Yusof established the business in 2004 to provide an alternative for more affordable surgical implants to the local market. Medical devices in Malaysia are mostly imported from the US, the UK, India and China.

“We had the idea for a while before MTDC (Malaysian Technology Development Corporation) opened the doors for us, providing some RM2.89 million grant to commercialise the products by setting up a manufacturing plant,” he said in Kuala Lumpur.

In 2007, OSA Technology began to undertake commercialisation activities and manufacturing of surgical implants that are used to rectify bone fracture. Its existing 10,000 sq ft plant located at MTDC's Technology Centre in University Kebangsaan Malaysia, can produce some RM24 million worth of surgical implants per year.

Hyzan said he hopes that in five years, the company can add more machinery to produce and sell RM200 million worth of



“We had the idea for a while before MTDC (Malaysian Technology Development Corporation) opened the doors for us, providing some RM2.89 million grant to commercialise the products by setting up a manufacturing plant.”
Dr Hyzan Mohd Yusof
Founder and orthopaedic surgeon

surgical implants a year. OSA Technology's target revenue breakdown is 30 per cent from government contracts, 40 per cent from private hospitals and the remaining 30 per cent from original equipment manufacturers (OEM) contracts and overseas sales.

The company was recently awarded a contract to be the exclusive manufacturer and supplier of orthopaedic trauma implants for all hospitals under the Health Ministry. The orthopaedic trauma implants market in Malaysia is estimated at RM46 million annually.

Globally, the size of the medical device market is estimated at US\$250 billion a year with orthopaedic implants market alone valued at some US\$35 billion.

OSA Technology also aims to undertake a role as an intermediary to commercialise medical devices developed by local research universities.

“Since producing Malaysian-made orthopaedic trauma medical devices, we received enquiries and orders from foreign buyers due to the quality and price competitiveness of our products. We would

like to develop our local market presence and upgrade the existing manufacturing facility before we begin exporting our products,” Hyzan said.

He hopes the support given by MTDC, which has expanded beyond financial assistance to also include support system, moral backing and networking, will continue to help OSA Technology progress further in the global medical devices industry.



Dr Hyzan at Cambodia

的距离缩短了，每每大灾难发生后，不论远或近，总有一些人会奋不顾身地援助。最近的例子，是5.12中国四川8级大地震。
上，在许多显著或小小的角落，其实也有许多好人好事。
的医生到曾经盛极一时的吴哥王朝去，刚好见证到——爱无国界，永无止休！



●在柬埔寨政府医院，护士扮演着举足轻重的角色。

愈之后，便可拆除下来，洗净、消毒，日后再让他人所用。

“柬埔寨的郊区医药水平虽急待改善，但是，他们最需要的还是掌握‘如何捕鱼’之道。我相信我们在柬埔寨的人道援助任务已经结束，因为柬埔寨的经济基础已建设起来，并且迅速发展。”

谈到马来西亚骨科协会与暹罗医生的长远目标时，苏毅说，必要时，他们会安排专家到暹罗动手术、作技术转移、安排马来西亚医生到暹罗实习，或者安排他们来马交流。

人道援助

马来西亚骨科协会成立于1967年，不过，志愿医药救援组织却是在2004年10月成立。当时，苏毅是协会主席；两个月后，印度洋大海啸造成卅多万人死亡。他们在当地人与马来西亚国际和平组织的协调下，把人们的捐献品由军机直接送到灾民手中，并且安排骨科医生，一批批的互相接力，为灾民动手术。

“大海啸发生后，亚齐的两位骨科医生已英雄无用武之地，并且打算离开伤心地了。幸亏我们接洽到他们，把药剂和仪器送到他们手中，让他们日后仍然可以继续造福社会。”

在灾难人祸发生时，有一些人就好像“飞蛾”般，勇于扑火。至今，已有多位骨科医生冒着生命危险去到黎巴嫩、叙利亚、巴基斯坦、印尼巴达维、孟加拉齐等灾。为饱受灾难人祸之苦的灾民雪中送炭。

受忽视者

大灾难发生时，在国际媒体广泛报道后，举世都对直接受灾者与受害者深表同情。不过，人们总会忽略间接受害者。比如说，大地震之后，一些房子虽不至于倒塌，却裂痕处处成为危楼，这些居民往往是赈灾时最受忽略的一群。

然而，这一群受忽略的人，同样会生病，会有需要医治的常年疾病须诊治，有极大的心理创伤须平复。

在柬埔寨，严格来说，人民真正稳定只有十多年时间，饱受战乱洗礼的痕迹仍然非常鲜明。无论如何，看到一群医生凭着以人为本的医疗原则，对大爱有独特的表现、深度与广度。我相信，如果全人类继续有此反哺之心，走过世纪低谷的柬埔寨，未来必定会日渐好转。



●用章医生是马来西亚骨科协会的志愿医药救援组织成员。



●暹罗国际残疾人复健中心是由两名法国人发起创立的。

PUNB Usahawan Nasional, Januari 2010

Bil. 23 • Tahun 14 • Edisi Januari 2010 (Muharam / Safar 1431H)
Permit No. PP 12654/06/2010(024656)

USAHAWAN

NASIONAL

BULETIN PERBADANAN USAHAWAN NASIONAL BERHAD



Azman Bidin
Perfect Triangle
Sdn Bhd

Dr Hyzan Mohd Yusof
OSA Technology Sdn Bhd

Hajjah Kalthom
Abu Bakar
Bayu Ayu Sdn Bhd

HALAL INDUSTRY
Reaching More Value



Dr Hyzan Mohd Yusof
Ketua Pegawai Eksekutif
OSA Technology Sdn Bhd

"Di negara kurang membangun, hospital tidak mampu menyediakan peralatan perubatan yang lengkap kerana berhadapan dengan masalah kewangan. Walau di mana mereka berada, saya tetap prihatin dengan keadaan pesakit-pesakit saya untuk men-ortopedik"
- Dr Hyzan

IMPAK positif yang terhasil dari pelaksanaan sesuatu idea menjadi fokus utama dalam sesuatu inovasi. Pemikiran inovatif menghasilkan pulangan maksimum, bukan sahaja dari segi kebendaan tetapi juga dalam bentuk lain yang tidak dapat diukur dengan wang ringgit. Justeru, dalam usaha membina persekitaran perniagaan inovatif, usahawan perlu memberi penekanan terhadap aspek tambah nilai (*added value*).



**WAN
/ATIF**
inovasi mereka

Inovasi 1

Selari dengan moto syarikat iaitu 'Surgical Solution Systems', OSA Technology bertindak sebagai sebuah pusat sehati di mana idea dari pakar perubatan menjadi teras dalam penghasilan sesuatu produk.

Inovasi 2

Aktiviti pengeluaran menggunakan mesin terkini dan berteknologi tinggi yang dilengkapi dengan kejuruteraan presisi (*precision engineering*) dan *computer-aided-design (CAD) system*.



Dr Hyzan sentiasa prihatin terhadap keadaan pesakit-pesakitnya.

The Edge 2009

Unfortunately, the funding landscape for biotechnology companies here is public sector driven, which means there are fewer avenues to turn to for the majority of fledgling companies in Malaysia. Some 49% of the BioNexus status companies are startups, while 47% are small to medium enterprises. Only 4% are classified as in a mature stage.

The managing director of OSA Technologies, Hyzan Yusof, says that raising funds in Malaysia was very difficult when he first started out in 2004 after making the leap from the academia to the business world. Specialising in medical devices in the healthcare segment, he says he has raised RM7 million to date and RM 5.5 million of that goes to machines



funded R&D has huge potential, then a soft loan could be given to bring it out to the market or to attract foreign investors or local banks.

around RM4 billion but is currently underutilized at just RM1 billion. To put it simply, this is money that the companies can't get to.

The scenario may not seem as dire now, but it will take a turn for the worse when the commercialisation phase starts in 2011. A senior executive from an investment bank says he

investment is expected to shrink at 0.7% each year in order for the private sector take rein and propel the economy forward. Unfortunately, during the 9MP, private investment has not been growing and is instead projected to decline 2.4%, partly due to the economic recession.

TeAM Bio, a non-profit organisation and industry body, says that the funds should be used more creatively. Since applied research is meant to be put to use in the market, it is deemed to be better for the private sector to run the show.

TeAM president Koh Lee Ching says the government can still fund basic research as that is essential to basic science. But the funds for applied research could be handled by the private sector as it is better at generating revenues and returns (Note: netvalue2.0 will run TeAM BIO's wish list in the Jan 11, 2010 issue).

According to Zubir, another way to close the gap between seed and commercialization funding would be to have a follow-up soft loan for successful R&D grant recipients. If the funded R&D has huge potential, then a soft loan could be given to bring it out to the market or to attract foreign investors or local banks.

The idea for a soft loan or more private investment would certainly be welcomed by the industry as it is currently difficult to get loans from commercial banks due to the nature of the biotechnology industry. In the meantime, the majority of biotech companies find themselves competing in a long distance marathon, with the next pit stop nowhere to be seen.

Aligning R&D and commercialisation

One of the motivations in having multinationals set up shop here is to enable the transfer of knowledge and technology to the locals to spur innovation. While no one can deny that jobs and wealth have been created as a result of this, the ceiling has been reached and the country is stuck with a middle-income nation tag.

Rohit Shukla, CEO of Larta Institute in California, says the spillover effect intended from the knowledge exchange — where the private sector would mushroom — somehow didn't materialize. Larta Institute is undertaking a project with Biotech-

corp to bring out 12 high impact local research programmes in collaboration with international institutes and companies.

"It's not unusual because the fact is every country that has done this has seen the same impact. The reason is if you are chasing on cost, you will be chasing it to the ground and



Hyzan: Raising funds was very difficult when we first started out in 2004

Apart from sound investments, researchers also need to be empowered to commercialise their findings, without having to deal with bureaucracy. During one of the talks held by Biotechcorp recently, it was revealed that one of the biggest frustrations that researchers face is the need to seek permission before embarking on any R&D. In certain cases, they have to seek approval from two ministries, namely the Ministry of Higher Education and Ministry of Science, Innovation and Technology.

and certifications in order to export to overseas markets.

"We started in 2004 when 'biotechnology' was not the buzzword. The commercial banks were not interested in a start-up venturing into a business they are not familiar with. MTDC (Malaysian Technology Development Corp) listened to us after going to them the second time around and we received the CRDF (Commercialisation for R&D fund) matching grant. It took us another 18 months to finally secure a matching fund from PUNB. The amount of funds we secured was less than our initial projection for the project, but we decided to proceed," says Hyzan.

Meanwhile, in the agriculture biotech section, Kartina Ghani, who is director of Ar-Raudhah, says that it is nearly impossible to raise funds. Ar-Raudhah, which produces livestock genetics material, is hard pressed for funds after the initial seed fund of RM2.5 million from Biotech Corp.

Because the industry is still taking baby steps, the full funding lifecycle has a gap that cannot be ignored if the industry is expected to grow further. Biotechcorp has admitted to this gap between R&D and commercialisation after doing a careful study of the available funds in Malaysia.

The total amount available from all local avenues is calculated to be



Rohit: Any system designed ought to put in the opportunities for commercialization

finds it hard to fund any biotechnology company as most have not even finished their R&D or have a proven product in hand. Because most of the companies are start-ups, it is hard to invest in any of them.

Zubir Yahya, CEO of MDV, agrees and feels that most of the companies that approach MDV still need a few more milestones before MDV can come in to finance their projects. Because most of these companies have also received government grants, they are left with fewer funding sources as there are little private investments and no banks will touch them yet.

In line with the objectives of the 10th Malaysia Plan (10MP), public

there is always going to be someone who is going to offer it cheaper than you do. And someone did come along — China and India."

"But Malaysia has solid infrastructure, capable people and great assets. You have one of the richest biodiversity and a rich gene pool of people, perfect for clinical trials," says Rohit.

As part of the capacity-building phase, it is important to look at the innovation sources and ensure that capabilities are built. According to Rohit the universities and research institutes are one of the sources for innovation because biotechnology is heavily reliant on R&D. The other sources of innovation are existing companies and also spin-out companies.

Globalisation cannot be achieved without mass commercialisation. The previous mantra was to work with the multinationals, the new one should be to work with each other and participate in the global innovation process.

According to Abdul Reezal Latif general manager of Abio, a biotech consulting company, it is not practical for researchers to work in silos in a globalised world. One of the ways to enhance public-private relationship is to give out grants that are based on partnerships. To date, most of the

Utusan Malaysia, 15 Mac 2011

Gabung 2 bank belum muktamad

KUALA LUMPUR 14 Mac – Kerajaan masih belum memutuskan cadangan penggabungan SME Bank dan Agrobank atau menstruktur semula kedua-dua institusi perbankan.

Timbalan Menteri Perdagangan Antarabangsa dan Industri, Datuk Mukhriz Mahathir berkata, ia masih dalam proses perincian.

“Kerajaan masih belum memutuskan sebarang keputusan berhubung cadangan tersebut,” katanya.

Beliau berkata demikian pada sidang akhbar selepas melancarkan Program Inovatif ‘IQ-Dagang’ SME Bank di sini hari ini.

Hadir sama Pengarah Urusan SME Bank, Datuk Mohd. Radzif Mohd. Yunus.

Pada tahun lalu, Menteri Kewangan Kedua, Datuk Seri Ahmad Husni Hanadzlah berkata, kerajaan sedang mengkaji untuk menggabungkan atau menstruktur semula kedua-dua bank tersebut.

Cadangan tersebut adalah bagi memaksimumkan potensi dan peranan bank-bank berkenaan.

Model pelaksanaan penggabungan itu akan dibentangkan pada mesyuarat Majlis Ekonomi.

Terdahulu, Mukhriz melancarkan program inovatif ‘IQ-Dagang’ bertema ‘Manjatkan Idea Kepada Perniagaan Berdaya Maju dan Menguntungkan’ yang merupakan program ‘kotak idea’.

Mohd. Radzif berkata, program itu telah bermula pada Oktober tahun lalu dan setakat Januari telah menerima 116 idea perniagaan.

“Daripada jumlah tersebut, sebanyak 15 idea perniagaan telah berjaya diterima dan



MUKHRIZ Mahathir (tengah) mendengar penerangan mengenai produk inovatif ketika melawat gerai yang terlibat dengan program Inovatif IQ-Dagang SME Bank selepas merasmikan program tersebut, di Kuala Lumpur, semalam.

dimajukan sehingga layak mendapat kemudahan pembiayaan.

“Setakat ini, penyertaan dibuka kepada semua yang mempunyai idea atau inovatif terbaru dan tidak tahu bagaimana untuk memulakan perniagaan mereka. SME Bank akan menyediakan perkhidmatan khidmat nasihat untuk membantu usahawan ini.

“Kami tidak menetapkan sebarang kriteria untuk menyertai program tersebut. Ia di-

buka untuk pendaftaran empat kali setahun dan mengambil masa dua bulan bagi melaksanakan proses pemilihan,” katanya.

Industri yang diutamakan adalah yang terlibat dalam 12 bidang ekonomi utama negara (NKEA) dengan tumpuan diberikan kepada enam industri strategik seperti minyak dan gas, pendidikan, pembinaan, kesihatan, produk halal dan pengangkutan serta strategik.

Manufacturing Plant

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