

CORPORATE PROFILE

*Innovation in
Healthcare
Technology*



CP2025:1

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CORPORATE BACKGROUND

INTRODUCTION



Scope of Business

- Consultancy and Services
- Calibration and Testing
- Design and Production
- Research and Innovation



Advance Pact Sdn Bhd

- Malaysian Registered
- 100% Bumiputera Owned



Business Region

- Malaysia (Head Office)
- Brunei Darussalam
- United Arab Emirates
- Kingdom of Saudi Arabia
- Uzbekistan
- Kazakhstan

VISION

Innovation in *Healthcare* Technology



MISSION

Technology Driven

To enhance service performance through application of information technology system and be in tandem with the technology evolution.



Best International Standards

To equal or **exceed best international practices** and standards in the delivery of services in Malaysia and other emerging markets.



Cost Efficiency

To provide **cost efficient solutions** that meet the requirements of the customers.



Professional Competency

To promote professional competency through continuous professional education and human resource development.



Customer Satisfaction

To ensure utmost customer satisfaction **through services** that conform and exceed the defined requirements.



COMPANY REGISTRATION

REGISTRATION



- Ministry of Finance – **Supplier & Services (357-01000400)**
- Ministry of Finance – **Bumiputera Status (357-01000400)**



- Pusat Khidmat Kontraktor – **Bumiputera Status**
- Bahagian **Pembangunan Kontraktor Dan Usahawan (BPKU)**



MINISTRY OF HEALTH MALAYSIA

- Approved **Specialist Contractor** – High End Medical Imaging Equipment, MOH



- CIDB G7 - **Registered Contractor (0120021126-SL077836)**
 - **(B)** – Pembinaan Bangunan
 - **(CE)** – Pembinaan Kejuteraan Awam
 - **(ME)** – Mekanikal & Elektrikal
 - **(F)** – Fasiliti
- CIDB G7 – **Sijil Perolehan Kerja Kerajaan (SPKK) (0120021126-SL077836)**
- **Taraf Bumiputra**
- Sijil Pencapaian **SCORE CIDB**



- Suruhanjaya Tenaga - **Pendaftaran Orang Kompeten (PJ-T-1-B-1970-1999)**



- MATRADE – Registered **Exporter - 31390**

LICENSES



B Licence (Poison)
Mercury Related Equipment,
MOH (MB 051/2011)



Lesen Tred Perniagaan dan Perindustrian
MBPJ (L950000115156)



Lesen Tred Perniagaan dan Perindustrian
MBPJ (L950000115156)



C, E & H Licence
Maintenance, Purchase, Own, Export, Import and Use of Irradiating Apparatus, AELB (LPTA/A/1086)



Medical Device Authority, Establishment License
Manufacturer (MDA 6878-K124)

STRUCTURED MANAGEMENT SYSTEM

INTEGRATED QUALITY AND SAFETY STANDARD MANAGEMENT SYSTEM (IQSM)

ISO 9001



Quality Management System

ISO 14001



Environment Management System

ISO 45001



Occupational Safety and Health Management System

ISO 17025



Competence of Testing and Calibration Laboratories

ISO ABMS 37001



Anti Bribery Management System

ISO 13485



- Quality Management System for **Design, Development, Manufacture, Installation and Servicing of Ventilator**
- Quality Management System for Medical Device for **Biomedical Engineering Maintenance Services**

Certificate MY24/0000264
The management system of
Advance Pact Sdn. Bhd.
(Company No: 199601039815 (412168-V))

2-3A, Perdana The Place, Jalan P3J/84, Setangor Darul Ehsan, Malaysia
has been assessed and certified as
ISO 13485:2016

For the following activities
Design, Development, Manufacture.

This certificate is valid from 22 June 2020 until 22 June 2024
Issue 1. Certified since 22 June 2024
Certified activities performed by addition

Authorized by
Zainee Haniff
SGS (Malaysia) Sdn Bhd., Conformity Assessment
Lot 3 & Lot A, Persiaran JALAPAR, Setangor
1-403 1627 0880 - www.sgs.com

Medical Device
201749111
10011344

This document is an authentic electronic version of the Certificate.
The document is issued by the company subject to SGS Group
policy, conditions and applicable laws and regulations.
Page 1/12

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00110000



Advance Pact Sdn. Bhd.
(Company No: 412168-V)

2-3A, Perdana The Place
Jalan P3J/84, Bandar Damansara Perdana,
47800 Petaling Jaya, Selangor Darul Ehsan,
MALAYSIA

has been assessed and certified for the management system of
ISO 14001:2015

For the following activities
Provision of Biomedical Engineering Maintenance Services for Medical Equipments

This certificate is valid from 26 September 2016 until 21 November 2021 and remains valid subject to satisfactory surveillance audits. Recertification audit due a maximum of 40 days before the expiration date. Issue 3. Certified since 22 November 2023

has not been assessed and certified in meeting the requirements of
ISO 45001:2018

For the following activities
Provision of Biomedical Engineering Maintenance Services for Medical Equipments

This certificate is valid from 18 August 2020 until 17 August 2023 and remains valid subject to satisfactory surveillance audits. Recertification audit due a maximum of 90 days before the expiration date. Issue 3. Certified since 18 August 2022

The organization previously held accredited CHSAS 18001 since 28 September 2008

This is a multiple certification. Additional site details are listed on the subsequent page.

Authorized by
SGS (Malaysia) Sdn Bhd., Conformity Assessment
Lot 3 & Lot A, Persiaran JALAPAR, Setangor
1-403 1627 0880 - www.sgs.com

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Advance Pact Sdn. Bhd.
(Company No: 412168-V)

2-3A, Perdana The Place, Jalan P3J/84, Bandar Damansara Perdana,
47800 Petaling Jaya, Selangor Darul Ehsan,
MALAYSIA

has been assessed and certified in meeting the requirements of
ISO 45001:2018

For the following activities
Provision of Biomedical Engineering Maintenance Services for Medical Equipments

This certificate is valid from 18 August 2020 until 17 August 2023 and remains valid subject to satisfactory surveillance audits. Recertification audit due a maximum of 90 days before the expiration date. Issue 3. Certified since 18 August 2022

The organization previously held accredited CHSAS 18001 since 28 September 2008

This is a multiple certification. Additional site details are listed on the subsequent page.

Authorized by
SGS (Malaysia) Sdn Bhd., Conformity Assessment
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1-403 1627 0880 - www.sgs.com

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Advance Pact Sdn. Bhd.
(Company No: 412168-W)

2-3A, Perdana The Place, Jalan P3J/84, Bandar Damansara Perdana,
47800 Petaling Jaya, Selangor Darul Ehsan,
MALAYSIA

has been assessed and certified in meeting the requirements of
ISO 13485:2016
EN ISO 13485:2016

For the following activities
Provision of Biomedical Engineering Maintenance Services for Medical Equipments

This certificate is valid from 18 August 2020 until 17 August 2023 and remains valid subject to satisfactory surveillance audits. Recertification audit due a maximum of 90 days before the expiration date. Issue 3. Certified since 18 August 2022

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Authorized by
SGS (Malaysia) Sdn Bhd., Conformity Assessment
Lot 3 & Lot A, Persiaran JALAPAR, Setangor
1-403 1627 0880 - www.sgs.com

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Certificate GB21/909117B

Advance Pact Sdn. Bhd.
(Company No.412168-W)

2-3A, Perdana The Place, Jalan P3J/84, Bandar Damansara Perdana,
47800 Petaling Jaya, Selangor Darul Ehsan,
MALAYSIA

has been assessed and certified in meeting the requirements of
ISO 13485:2016
EN ISO 13485:2016

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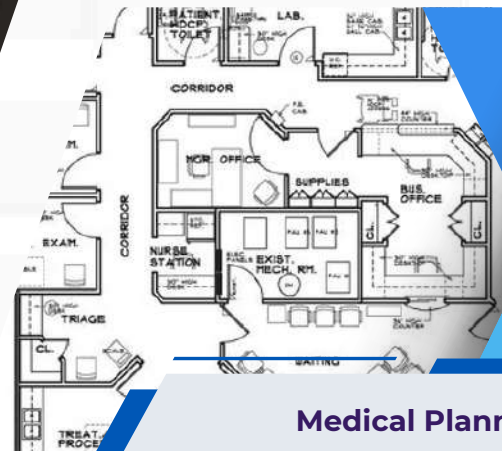
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SCOPE OF SERVICES

CONSULTANCY SERVICES



Feasibility Study



Medical Planning



Medical Equipment Planning



ICT Planning



Procurement Services



Project Management

SCOPE OF SERVICES

CALIBRATION AND TESTING



Accuracy assurance for medical devices with higher Metrology Bodies; namely National Metrology Institute of Malaysia (NMIM) or International Bureau of Weights and Measures (BIPM).



Global standards compliance.



Customer Analysis Defensive Strategy



Accredited to ISO/IEC 17025 by the Department of Standard Malaysia.



Post-market surveillance and reporting



Electrical



- Battery Impedance
- DC Power Supply
- Decade Resistance
- Digital Multimeter
- Electrical Safety Analyzer
- Insulation Tester

Temperature



- Digital Thermometer
- Dry Block Calibrator
- Temperature Sensor (Thermocouple / PT100)

Pressure



- Digital Manometer
- Digital Pressure Meter
- Hand Held Leak Tester
- Medical Gas Tester
- NIBP Analyzer
- Pressure Gauge
- Vacuum Gauge

SCOPE OF SERVICES

RESEARCH AND INNOVATION



Active Critical Care Medical Device



Diagnostic Medical Device using Photon Technology



AI Application in Biomedical Engineering Services



AI Application in Maintenance Engineering Services

RESEARCH

novation

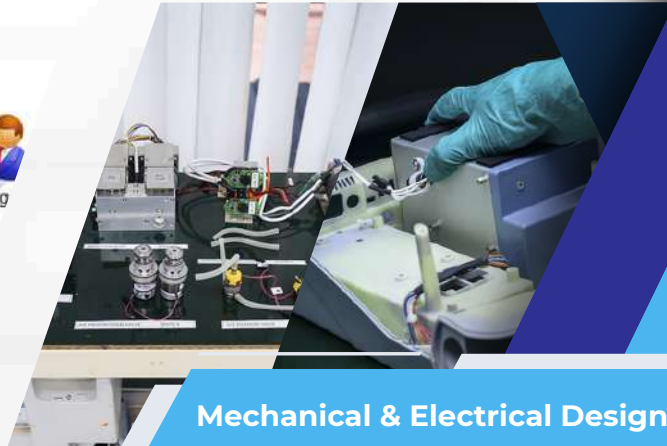


SCOPE OF SERVICES

DESIGN AND PRODUCTION



Design Requirement Validation



Mechanical & Electrical Design



Algorithm & Software Development



PCB Design & Development



CORE COMPETENCY VALUES

WORKSHOPS & LABORATORIES



Biomedical Engineering Services workshop compliance to **MS 2058 requirement**



- Troubleshooting and testing failure of PCB components

- Routine calibration of equipment for precise medication administration.



- Scheduled preventive maintenance to ensure smooth operation of the equipment.



CORE COMPETENCY VALUES

AI ENABLED MAINTENANCE ENGINEERING LIFE CYCLE SYSTEM, MELSYS

AP FACULTY AI INITIATIVE ON AWS PLATFORM

MELsys is an **AI driven comprehensive Maintenance Engineering Lifecycle System on AWS platform**. MELsys consists of 3 main integrated components, namely **Leasing Platform, Predictive Maintenance and Supply Chain**.

Phase 1 Proof of Concept (POC) for biomedical engineering development of MELsys Predictive Maintenance started in October 2024 and completed in February 2025. Phase 2 Predictive Maintenance for biomedical engineering final system development started in March 2025 and expected to complete in July 2025. Phase 3 will involve development of Leasing Platform and Supply Chain from September 2025 to December 2025. The facility engineering component development will begin end of 2025 Refer to Figure 2: Block Diagram of MELsys and Figure 3: Tentative MELsys Dashboard.

Leasing Platform

- Fix lease or subscription per use leasing options.
- Standardised leasing payment of processing.
- Budget allocation tracking and forecasting.
- Cost allocation to department/facilities.
- ROI analysis for different equipment type.



Predictive Maintenance

- Centralised asset tracking system with real time status.
- Predictive maintenance scheduling prior to breakdown.
- Streamlined decommissioning and replacement processes.
- Regulatory compliance for equipment disposal.



Supply Chain

- Equipment planning based on hospital functional needs.
- Standardised equipment catalogue and specification.
- Vendor detail and pricing.
- Delivery and installation monitoring.
- Testing and Commissioning status.



CORE COMPETENCY VALUES

AI ENABLED MAINTENANCE ENGINEERING LIFE CYCLE SYSTEM, MELSYS

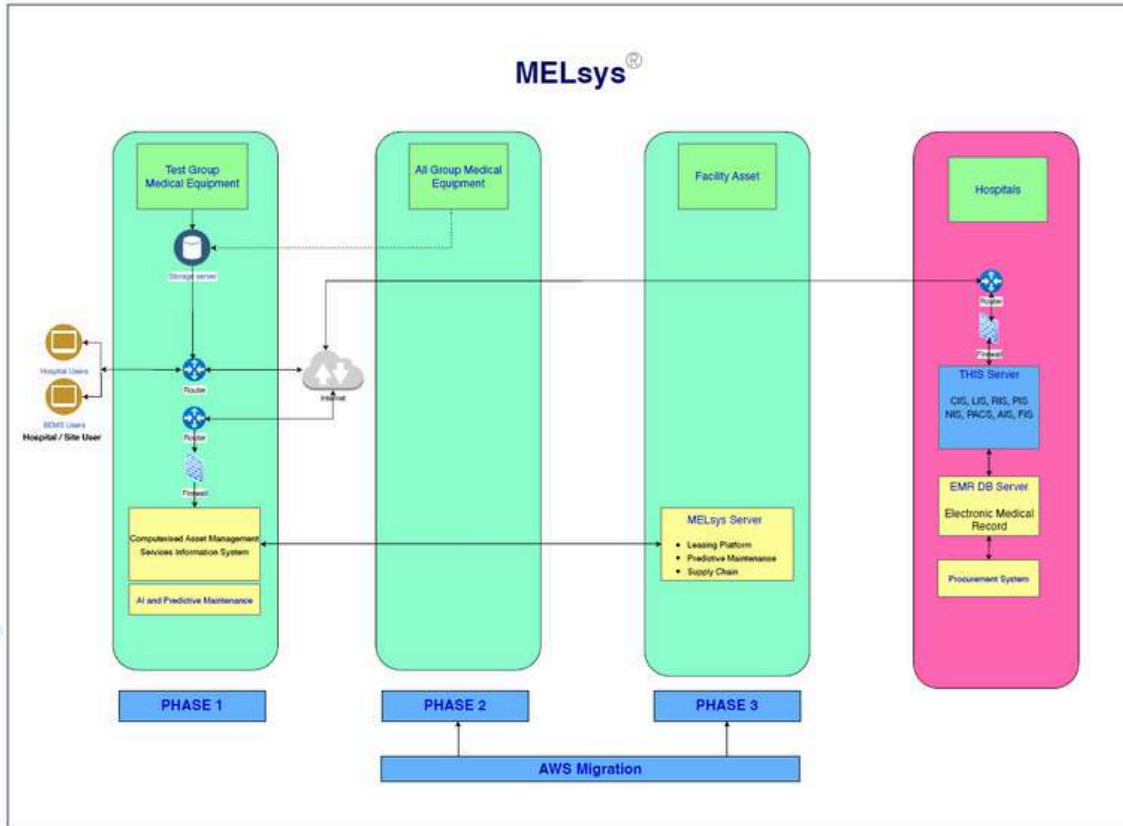


Figure 2: Block Diagram of MELsys

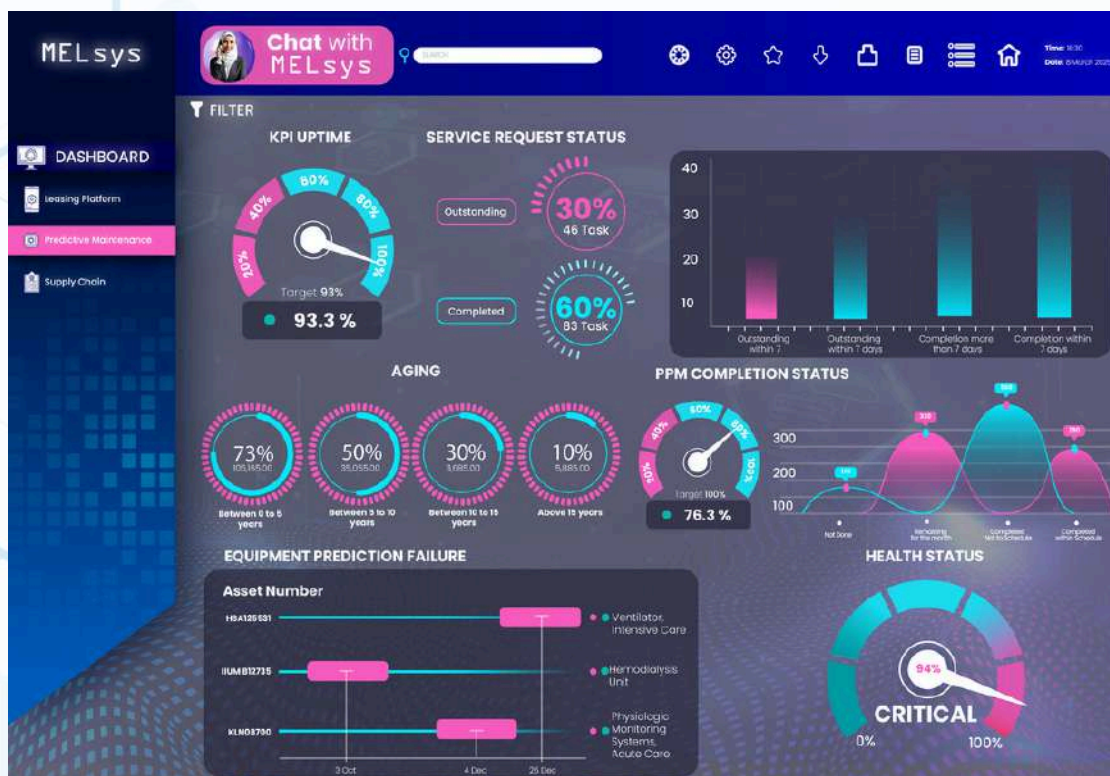


Figure 3: Tentative MELsys Dashboard

CORE COMPETENCY VALUES

SPECIALTY GROUP

- More than **160 Medical Engineers and Technicians**
- Competent in **Eight Functional Units**

Surgical
Instrument



Dialysis



Automated
Infusion
Pump



Circuit
Repair



Critical
Care



Laboratory



Medical
Imaging



Scopes



PARTNERS



Medical Device Authority(MDA)

- Exchange of **Strategic Collaboration Agreement** with **Medical Device Authority** on **15 October 2024**.
- Focuses on the **development** and **commercialization** of **Portable Invasive and Non-Invasive Ventilator (VSI)**.
- Ensure the successful advancement of the ventilator, from its design and regulatory approval to **market readiness and adoption in healthcare facilities**.
- Provides regulatory advice, assist with grants, intellectual properties, procurement, commercialization, and post-market activities

MOU EXCHANGE CEREMONY



From left, Dr. Muralitharan Paramasua, Chief Executive, MDA, YB Chang Lih Kang, Minister of Science, Technology and Innovation, Dato' Sri Norolazali bin Sulaiman, Chairman, AP and Dr. Siti Ainol Khabtiah binti Mohd Jamil, Chief Executive Officer, AP.



Dr Muralitharan, Chief Executive, Medical Device Authority (MDA) with Dr Siti Ainol Khabtiah binti Mohd Jamil, Chief Executive Officer, Advance Pact (AP), during signing of Memorandum of Collaboration.



Dr Muralitharan, Chief Executive, MDA at AP booth on IMDEC 2024

PARTNERS

CENTRE FOR ADVANCE CLINICAL ENGINEERING (ACE)

- AP's **research, design, and production centre for medical equipment.**
- **Successfully designed and produced VSI**, which has completed non-clinical and clinical testing and is now awaiting final approval from **MDA**.
- Currently developing an AI-enabled ventilator and plans to expand into the production of medical equipment, components, and spare parts to support local self-sustainability and reduce dependence on foreign medical devices.
- In-house research and development unit formed in **2020**



From right: Dato' Sri Norolazali bin Sulaiman, Chairman, AP, Dr. Siti Ainol Khabtiah binti Mohd Jamil, Chief Executive Officer, AP, Datuk Dr. Muhammad Radzi bin Abu Hassan, Director-General of Health, Dr. Xu Jinghe, Deputy Commissioner of China's National Medical Products Administration (NMPA), Datuk Seri Dr. Haji Dzulkefly bin Ahmad, Minister of Health Malaysia, Dato' Sri Suriani binti Dato' Ahmad, Ketua Setiausaha and Mr. Choy Wah Wei, Chief Executive Officer, Lucenxia (M) Sdn Bhd

PARTNERS

AP-CAMBRIDGE UNIVERSITY TECHNICAL SERVICES COLLABORATION

- Focuses on system research and application for the **medical device and healthcare sector**.
- AP researcher, **Ms Hanushree Arumugam** started her PhD research on **Systems in Health** at the University of Cambridge in October 2024.
- Includes the setting up of Cambridge Centre for Systems in Health at the University of Cambridge and equivalent collaborating institution in Malaysia to support technology development in our local medical device industry.



Cambridge University Technical Services



Engineering better care
a systems approach to
health and care design and
continuous improvement.



PARTNERS

BECTA EP NIC KKTm COLLABORATION



- **HRDC registered** training provider
- Enhances Malaysia's biomedical engineering workforce.
- Provide specialized training, knowledge transfer, and technical **expertise** to ensure skilled **professionals** are available for servicing and maintaining leased **medical equipment and facility**.
- Supports the **long-term sustainability** of competency and education in healthcare engineering.



Signing ceremony of the Memorandum of Understanding (MoU) between BECTA, Eastwood Park (EP) and National Integrated College (NIC)



HRDC registered
Management and Technical Competency Training

Biomedical Engineering Maintenance Services
Competency Training for Biomedical Technicians (Permitted)
Competency Module LAM - Introduction to Healthcare of Mammography & Engender

Over 35 years of training experience, specializing across a number of healthcare support services, we provide hands-on, expert-led training for a state-of-the-art training centre in Gloucestershire, UK

Provision of technical and vocational training (TVET) excellence.



Mr. John Thatcher, Chief Executive Officer, Eastwood Park Training

Provide knowledge and technical expertise to KKTm students

PARTNERS



TIDREC

- Sign MoU with Tropical Infectious Diseases Research & Education Centre (TIDREC@UM) in 2022.
- Research and Commercialization of Vaccine Products
- Design and Development of Vaccines
 1. MDRVAKS (Acinetobacter baumannii)
 2. MARVL (SARS-CoV2)
 3. ORAVAD (Dengue)
 4. DEVARNA (neglected tropical disease)



Professor Sazaly bin Abu Bakar, Director TIDREC with UK Delegates and AP during visit programme to TIDREC



UK Delegates were taken for a tour to Tropical Infectious Disease Research & Education Centre (TIDREC), University Malaya

PARTNERS

UiTM



- Performed comparative & analysis study using **ASL 5000 Lung Simulator**.
- Formation of **Centre for Mechanical Ventilator (CeMV)**
- **Clinical Trial** for VSI
- Completed the Clinical Trial on 41 patients without technical complications.



Signing ceremony of the Memorandum of Understanding (MoU) between Universiti Teknologi MARA and Advance Pact.



Clinical Trial for VSI at Hospital UiTM Sungai Buloh, Selangor

PARTNERS

MIMOS

- Focuses on the development of a **wireless ventilator** with **AI-enabled** technology.
- Explores **research** on application of **photon technology**.
- Explores **innovation** in the field of Information and Communications Technology (ICT).



Dr. Saat Sukri bin Embong, Chief Executive Officer, MIMOS and Dr. Siti Ainol Khabtiah binti Mohd Jamil, Chief Executive Officer Advance Pact exchange token of appreciation during Ceremony of signing MoU

MIMOS Berhad and Advance Pact Sdn Bhd



MoU signing between MIMOS and Advance Pact



MIMOS representative explained on system of the product to Ms Jeanette Walker

BUSINESS CREDENTIALS

CURRENT

13 Ministry of Health Hospitals in Johor

- Comprehensive Biomedical Engineering Maintenance Services since 2004
- Supervision of Installation and Commissioning
- Testing and Calibration
- Maintenance Services
- Risk Assessment
- Technology Assessment
- User Training



Sultan Ahmad Shah Medical Centre @IIUM (SASMEC), Kuantan, Pahang



- Medical Equipment & IT Planning Consultancy Services
- Facilities Management Services (2016 - 2037)
- Facility Engineering Services
- Biomedical Engineering Services
- Cleansing Services
- Security Services
- Computerized Asset Management System
- Building Information Modelling Support



BUSINESS CREDENTIALS

PAST

Negeri Sembilan



- 5 Ministry of Health Hospitals
- Comprehensive Biomedical Engineering Maintenance Services (2004 to 2022)

Melaka

- 4 Ministry of Health Hospitals
- Comprehensive Biomedical Engineering Maintenance Services (2004 to 2023)



Brunei

Maintenance Services For Medical Imaging Equipment For Hospitals Under Ministry of Health, Negara Brunei Darussalam (2005)



UAE

Planning and Management of Dar Al Shifa Specialist Hospital (2003)



KSA

Strategic Planning Consultancy for King Abdullah Medical City, Jeddah, Kingdom of Saudi Arabia (2009)



ADVANCE RESEARCH PROGRAM



UNIVERSITI
TEKNOLOGI
MARA



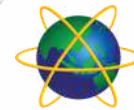
Management with Emphasis on Commercialization Issue of Medical Device

UiTM, Malaysia

PhD Researcher – Siti Ainol Khabtiah Mohd Jamil

Start Date – 2021

Completed - February 2025



A . P . U
ASIA PACIFIC UNIVERSITY
OF TECHNOLOGY & INNOVATION



Artificial Intelligence in Maintenance and Engineering Systems

Asia Pacific University, Malaysia

PhD Researcher – Norhazlin Jallaludin & Nurul Fathia Mohamand Noor

Start Date – June 2023

Target Completion Date – June 2028



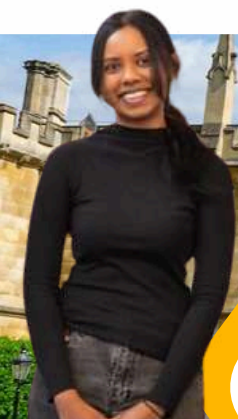
UNIVERSITY OF
CAMBRIDGE

System Approach – Researching the Role of System Approaches in Medical Device Development

University of Cambridge, UK

PhD Researcher – Hanushree A/P Arumugam

Start Date – October 2024



ACHIEVEMENTS



2024

- MOC with MBI
- MOU with MIMOS
- MOC with BECTA, EP & NIC
- Collaboration Agreement with NMD Uzbekistan
- Strategic Collaboration Agreement with MDA
- Agreement with AP CUTS
- NDA AP JLGC
- NDA AP PCBasic, Shenzhen
- Successful Completion of VS1 Clinical Trial



2022

MOU with TIDREC@UM

Excellence in Healthcare Consultancy Services Award, Malaysia

2019



CIDB 5 Star SCORE Award, Malaysia



2018

- SME Bank Perdana Awards, Malaysia
- SME Bank Most Outstanding Entrepreneur Award, Malaysia
- ESQR's Quality Achievements Award, United Kingdom, London

2015



- Human Resource Excellence Award by Ministry of Human Resource, Malaysia
- Penghargaan di atas Pencapaian Pensijilan Akreditasi 3rd Edition, Malaysia
- World Quality Commitment Award in Platinum Category by BID, France, Paris
- Principal Partner, Hospital Engineering International Conference & Exhibition, Malaysia
- MSOSH OSH Award 2012 Gold Class (II) Category, Malaysia



2013

- MSOSH – SME Occupational Safety and Health Award 2011 (Gold Category), Malaysia
- Top 10 Bumiputera Company under TERAJU, Malaysia
- Best 50 SME Companies in Malaysia, Enterprise 50 Award by SME Corporation, Malaysia
- International Arch of Europe for Quality and Technology System (Gold Category) by BID, Frankfurt, Germany

2012



- First 30 TERAS Company under TERAJU, Malaysia
- 5 Star High Performance Company by SME Corporation, Malaysia
- Penghargaan di atas sumbangan kepada Pertubuhan Membantu Pesakit Parah Miskin Malaysia

2011



HEAD OFFICE

2-3A, Perdana The Place,
Jalan PJU 8/5G,
Bandar Damansara Perdana,
47820 Petaling Jaya,
Selangor, Malaysia

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