



# **DEFINING A NEW VISION FOR LIFE AND TECHNOLOGY**

## ABOUT US

Advance Pact Sdn Bhd (AP) is a Malaysian company that provides comprehensive healthcare consultancy and services in Malaysia, Asia Pacific, East Asia and the Middle East. Since 1997, AP has progressively developed a niche in the provision of healthcare consultancy and services locally and abroad. AP has vast experiences in providing the consultancy services for over 30 hospital projects in Malaysia, United Arab Emirates and Saudi Arabia.



### OUR VISION

Advance Pact Sdn Bhd strives to be the leading global healthcare consultancy and services company.



### OUR MISSION

In achieving the vision, Advance Pact Sdn Bhd has adopted the following primary strategies:

#### Customer Satisfaction

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

#### Professional Competency

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

#### 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.

#### Value Human Capital

To recognise human capital as the main asset of the organisation.



## Structured Management System

### Integrated Quality and Safety Standard Management System (IQSM):

- ISO 9001: 2015 Quality Management Standard
- ISO 13485: 2016 Quality Management Standard for Medical Devices
- ISO 45001:2018 Occupational Health and Safety Management System
- ISO 14001: 2015 Environmental Management Standard
- MS ISO/IEC 17025:2017 General Requirement for the Competence of Testing and Calibration Laboratories
- Good Distribution Practice for Medical Devices (GDPMD) pursuant to Medical Device Regulation 2012

## CERTIFICATIONS



## LICENCES

- C, E & H Licence – Maintenance, Purchase, Own, Export, Import and Use of Irradiating Apparatus, AELB (LPTA/A/1086)
- B Licence (Poison) – Mercury Related Equipment, MOH (MB 051/2011)
- Lesen Tred Perniagaan dan Perindustrian – MBPJ (L950000115156)
- Royal Malaysian Customs Department – Service Tax Act 1975 (W10-CP-11000957/2011)

## REGISTRATION

- Ministry of Finance – Supplier & Services (357-01000400)
- Ministry of Finance – Bumiputera Status (357-01000400)
- Pusat Khidmat Kontraktor – Bumiputera Status
- Suruhanjaya Tenaga - Pendaftaran Orang Kompeten (PJ-T-1-B-1970-1999)
- MATRADE – Registered Exporter- 31390
- CIDB G7 - Registered Contractor (0120021126-SL077836)
  - (B)– Pembinaan Bangunan
  - (CE)– Pembinaan Kejuruteraan Awam
  - (ME)– Mekanikal & Elektrikal
  - (F)– Fasiliti
- CIDB G7 – Sijil Perolehan Kerja Kerajaan (SPKK) (0120021126-SL077836)
- Bahagian Pembangunan Kontraktor Dan Usahawan (BPKU) Taraf Bumiputera
- Sijil Pencapaian SCORE CIDB





# SCOPE OF SERVICES

## HEALTHCARE

01

### Consultancy Services

- Feasibility Study
- Medical Planning
- Medical Equipment Planning and Procurement
- ICT Planning
- Architectural Design
- Project Management



### Facility Management Services

02

- Facility Engineering Services
- Biomedical Engineering Services
- Medical Imaging Services
- Calibration & Testing Services
- Cleansing Services



03

### Medical Device Research and Innovation Center

- Research & development on medical device
- Refurbishment of medical device
- Design and production of new medical device

**Malaysia first locally produced High Flow Nasal Cannula - in design stage development**

- HFNC air/oxygen blender (without electronic oxygen concentration monitor)
  - Product ID: HFNC01
  - Product series: HFmax
  - Model name: HFmax 1



- HFNC air/oxygen blender (with electronic oxygen concentration monitor)
  - Product ID: HFNC01X
  - Product series: HFmax
  - Model name: HFmax S



**Malaysia first locally assembled Invasive and Non Invasive Ventilator**



# CREDENTIALS



## 13 Gov Hospitals in Johor

**Comprehensive Biomedical Engineering Maintenance Services (2004 to Current)**

- Supervision of Installation and Commissioning
- Testing and Calibration
- Maintenance Services
- Risk Assessment
- Technology Assessment
- User Training

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

- Medical Equipment & IT Planning Consultancy Services
- Facilities Management Services (21 ½ years) (2016 – 2037)
  - Facility Engineering Services
  - Biomedical Engineering Services
  - Cleansing Services
  - Security Services
- Computerised Asset Management System
- Building Information Modelling Support



- Comprehensive Maintenance Services of Medical Imaging Equipment for Government Hospitals under Ministry of Health, Brunei Darussalam (2006 – 2009)

- Project and Manpower Planning for King Abdullah Medical City, Makkah, Kingdom of Saudi Arabia (2009)
- Planning, design, equipping and testing, and commissioning of the 100-bed Al Madina Clinic Specialist Hospital, Madinah, Kingdom of Saudi Arabia (2007)



King Abdullah Medical City, Makkah, Kingdom of Saudi Arabia (2009)





Ministry of Higher Education, Malaysia (2022)

## COLLABORATION

- Universiti Teknologi MARA (UiTM), Malaysia (2023)
- Ministry of Higher Education, Malaysia (2022)
- Politeknik Caltex Riau, Indonesia (2021)
- University of Prince Mugrin Abdul Aziz, Madinah, Kingdom of Saudi Arabia (2020)
- Cyberjaya University College of Medical Science (CUCMS), Malaysia (2019)
- Majlis Amanah Rakyat (MARA), Malaysia (2012)
- King Abdullah Medical City, Makkah (2009)
- Synergy Health PLC, United Kingdom (2009)



Cyberjaya University College of Medical Science  
(CUCMS), Malaysia (2019)



University of Prince Mugrin Abdul Aziz, Madinah, Kingdom of  
Saudi Arabia (2020)



## CeMV

Centre for Mechanical Ventilation

- Develop clinical trial protocol in collaboration with Unit Etika & Penerbitan, Pusat Pengurusan Penyelidikan, Universiti Teknologi Mara (UiTM)
- Formation of Center for Mechanical Ventilation, UiTM Medical Center, Sungai Buloh
- Performed comparative and analysis study using ASL 5000 Lung Simulator



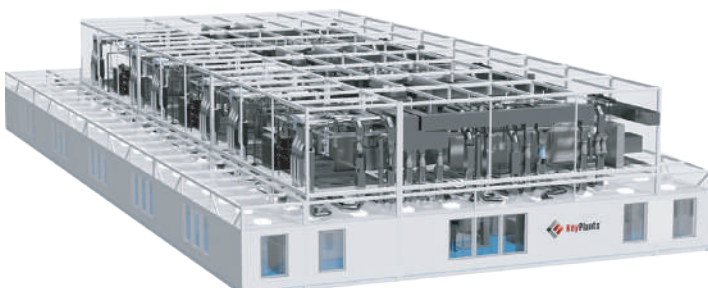
**AP represents VALNEVA SE on all Governmental affairs services in Malaysia**

- A French biotech company headquartered in SaintHerblain, France
- Manufacturing sites in Livingston, Scotland and Solna, Sweden and Vienna, Austria
- Produce inactivated vaccine for Lyme disease, Chikungunya, Japanese Encephalitis, Cholera and Covid-19



**AP and KeyPlants AB collaborate on high end pharmaceutical engineering for vaccine facilities**

- Swedish international pharma process engineering company
- Vast experience in end to end design solution for vaccines manufacturing
- DCVMN vaccines manufacturing facilities auditor (funded by GAVI)
- Successfully provide pharmaceutical engineering expertise for over 20 years
- Global experience in constructing more than 100 vaccines manufacturing facilities



**mindray**  
healthcare within reach

- AP as authorised distributor Mindray Orthopaedic products in Malaysia which include implants, tools and instruments





# ACHIEVEMENTS

**17th September 2019**

International Islamic Leadership Award

**27th March 2018**

CIDB 5 Star Score Award

**14th June 2015**

Quality Achievements Award

**10th October 2015**

- SME Bank Perdana Award
- SME Bank Most Outstanding Entrepreneur Award



**23rd December 2013**

Human Resource Excellence Award

**27th October 2013**

World Quality Commitment Award

**27th November 2012**

First 30 TeraS Companies under TERAJU

**9th November 2012**

Enterprise 50(E50) Award

**30th April 2012**

International Arch of Europe Award



## ADVANCE PACT SDN BHD

Healthcare Consultancy and Services



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



+6(03) 7726 8632 / 7727 9859 / 7728 4752



+6(03)7725 8636



info@advancepact.com



www.advancepact.com

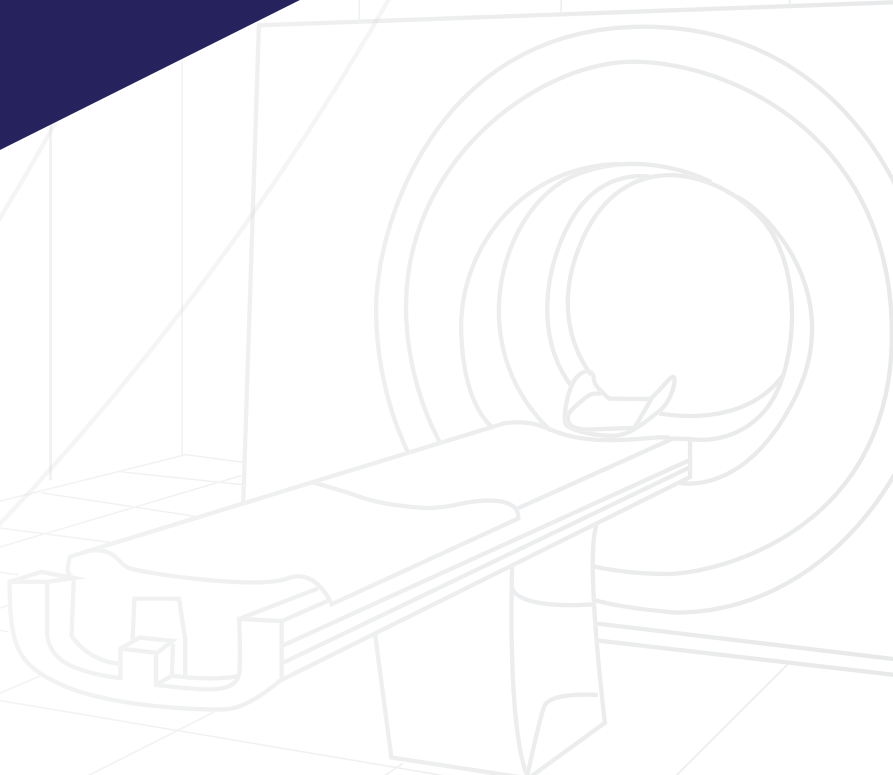






# AP NICHE ELEMENTS BROCHURE

**Defining  
A New Vision  
For Life And  
Technology**



*Revision 1, 5 July 2023*

# CERTIFICATIONS



## Structured Management System

### Integrated Quality and Safety Standard Management System (IQSM):

- ISO 9001: 2015 Quality Management Standard (United Kingdom Accreditation)
- ISO 13485: 2016 Quality Management Standard for Medical Devices (United Kingdom Accreditation)
- ISO 45001:2018 Occupational Health and Safety Management System
- ISO 14001: 2015 Environmental Management Standard (United Kingdom Accreditation)
- MS ISO/IEC 17025:2017 General Requirement for the Competence of Testing and Calibration Laboratories
- Good Distribution Practice for Medical Devices (GDPMD) pursuant to Medical Device Regulation 2012



## LICENSES

- C, E & H Licence – Maintenance, Purchase, Own, Export, Import and Use of Irradiating Apparatus, AELB (LPTA/A/1086)
- B Licence (Poison) – Mercury Related Equipment, MOH (MB 051/2011)
- Business and Industrial Trade License – MBPJ (L950000115156)
- Royal Malaysian Customs Department – Service Tax Act 1975 (W10-CP-11000957/2011)

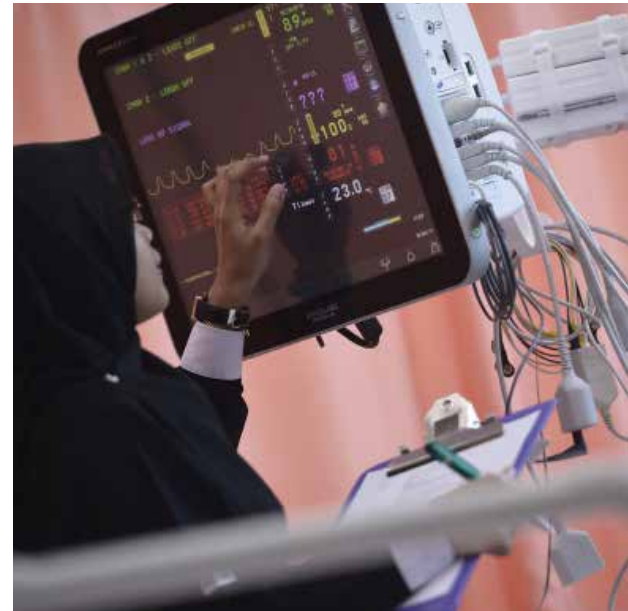
## REGISTRATION

- Ministry of Finance Malaysia – Supply & Services (357-01000400)
- Ministry of Finance Malaysia - Bumiputera Companies (357-01000400)
- CIDB – Contractor Registration (0120021126-SL077836)
  - Category G7 – B01 (Healthcare Building Facilities)
  - B04 (Building General Work)
  - B24 (Building Maintenance Work)
  - B29 (Health Building Work)
  - CE21 (Civil Engineering General Work)
  - F01 (Building Facilities and General Infrastructure)
  - F02 (Healthcare Building Facilities)
  - M06 (Medical Equipment)
  - M15 (Miscellaneous Mechanical Apparatus)
- CIDB – Procurement Certificate of Government Work (SPKK) (0120021126-SL077836)
  - Category G7 – B (Building Construction)
  - CE (Civil Engineering Construction)
  - F (Facility)
  - ME (Mechanical & Electrical)
- Contractor Service Center (PKK) – Bumiputera Company (0120021126-SL077836)
- Energy Commission - Registration of Competent Persons (PJ-T-1-B-1970-1999)
- Matrade – Registered Export Company (31390)





# CORE COMPETENCY VALUE

**01**

## Competent Professionals

**More than 200 Medical Engineers and Technicians who are competent in eight functional units:**

- Surgical Instrument
- Automated Infusion Pump
- Critical Care
- Dialysis
- Circuit Repair
- Laboratory
- Scopes
- Medical Imaging

**02**

## Workshops & Laboratories

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



# 03

## Asset Management Information System

AP in-house Software and Hardware Engineering Division has designed and developed the following Asset Management Information Systems.

### MyAPBESys



The primary system, APBESys was developed in 2007. APBESys manages more than 40,000 biomedical equipment assets for 23 MOH hospitals since 2007.

### Main Features:

- Desktop interface
- Online and real time
- Business Intelligent Reporting System
- Web based design

### CAMSIS

The upgraded web-based version with smart phone interface, CAMSIS was developed in 2016. CAMSIS has since been used at the 400 beds IIUM MC since 2017. CAMSIS has expanded scope of application that includes Facility Engineering Maintenance and Housekeeping Services with more than 8,000 assets.

The system was designed in modular format to allow independent development and application of the sub-modules (sub-systems). These sub-systems include asset registration, medical equipment inventory, work order management, vendor management, supply chain, preventive maintenance scheduling system and equipment quality control system.

### Main Features:

- More than 8,000 medical devices
- Integrated Building Information Modelling Data
- Business Intelligent Reporting System
- Dedicated application for the new IIUM Medical Centre, Kuantan





## TECHNOLOGY BUSINESS UNIT



ADVANCECALLAB

ACL is an accredited calibration laboratory certified to MS ISO/IEC 17025 (General Requirement for the Competence of Testing and Calibration Laboratories).

ACL provides a comprehensive and extensive range of services for global clients. The scope of calibration includes all parameters related to pressure, electrical and temperature.

ACL has been accredited by the Department of Standard, Malaysia (DSM) to ISO/IEC 17025:2015 standard in 2015.





## ACCB CERTIFICATION SDN BHD



ACCB Certification Sdn Bhd (ACCB), AP link company incorporated in 2017, is the first Accredited Certification Body in Malaysia to certify competent individuals in the field of good engineering maintenance management of active medical devices.

ACCB has obtained ISO 17024:2012 Conformity Assessment Accreditation from DSM based on the requirements outlined in MS 2058:2018 (Code of Practice for Good Engineering Maintenance Management of Active Medical Devices).

ACCB offers six (6) DSM certified modules that encompass various levels of competency ranging from basic to intermediate level of active medical devices.

### ■ BEM-CCMHAF01

Compulsory Competency Module for Human Anatomy and Physiology for Biomedical Technical Personnel (BTP)

### ■ BEM-CCMSHC01

Compulsory Competency Module for Safety Healthcare for Biomedical Technical Personnel (BTP)

### ■ BEM-CCMIHC01

Compulsory Competency Module for Introduction of Healthcare for Biomedical Technical Personnel (BTP)

### ■ BEM-ITVEN02

Competency on Biomedical Engineering Maintenance for Intermediate Active Medical Device (Therapeutic-Ventilator) Level 2

### ■ BEM-ITHDU02

Competency on Biomedical Engineering Maintenance for Intermediate Active Medical Device (Therapeutic-Dialysis) Level 2

### ■ BEM-OEST03

Competency on Biomedical Engineering Maintenance for Electrical Safety Testing (IEC 60601, IEC 62353 & IEC 61010)





## BECTA TRAINING ACADEMY SDN BHD

BECTA Training Academy Sdn Bhd (BECTA) was established in 2017 with the objective of providing comprehensive technical and non-technical training programs tailored to the healthcare industry.

An in-house training academy that provides management and technical competency training in Healthcare Services which include:

- Biomedical Engineering Services
- Facility Engineering Services
- Housekeeping Services

Developed and customized fifteen (15) technical competency modules which comprising of Biomedical Competency Modules, Hands-on Technical Modules, Biomedical Level 1 Technical Training Modules and Biomedical Level 2 Technical Training Modules.

## Customized Technical Competency Modules

### A. Biomedical Competency Module Program

- Compulsory Competency Module (CCM) Training - Human Anatomy & Physiology
- Compulsory Competency Module (CCM) Training - Safety
- Compulsory Competency Module (CCM) Training - Introduction to Healthcare for Biomedical Engineer
- Compulsory Competency Module (CCM) Training - Electrical Safety Testing (IEC 60601, IEC 61010 & IEC 62353)

### B. Hands-On Technical Module Program

- Basic Electronics Troubleshooting and Repair
- Intermediate Electronics Troubleshooting and Repair

### C. Biomedical Level 1 Technical Training Program

- Biomedical Engineering Services in Competency Technical Training - Level 1 (Therapeutic)
- Biomedical Engineering Services in Competency Technical Training - Level 1 (Diagnostic)
- Biomedical Engineering Services in Competency Technical Training - Level 1 (Laboratory)
- Biomedical Engineering Services in Competency Technical Training - Level 1 (Radiology & Imaging)

### D. Biomedical Level 2 Technical Training Program

- Biomedical Engineering Services for Intermediate Therapeutic Medical Device - Dialysis
- Biomedical Engineering Services for Intermediate Therapeutic Medical Device - Ventilator
- Biomedical Engineering Services for Intermediate Diagnostic Medical Device - Physiologic Monitoring Systems
- Biomedical Engineering Services for Intermediate Laboratory Medical Device - Analyzers, Laboratory, Blood Gas/pH
- Biomedical Engineering Services for Intermediate Radiology and Imaging Medical Device - Scanning Systems, Ultrasonic, General-Purpose





## RED ROSE TECHNOLOGY

AP has set up in-house research and development unit in 2010 and later becomes our Knowledge Division, Red Rose Technology (RRT). RRT embarked on its first medical device design and development using Medtronic open system and successfully produced our locally assembled ventilator, VentechS1 (VS1).

VS1 has completed all non - clinical bench testing at SIRIM Malaysia, Intertek China, United Laboratories USA and MET in the United Kingdom.

VS1 has been approved by our Medical Device Authority to start clinical trial at UiTM Teaching Hospital beginning June 2023.

AP has signed a collaborative Memorandum of Understanding for the setting up of a Centre of Excellence on Mechanical Ventilation (CeMV) at UiTM Medical Centre in Sg Buloh. CeMV now houses the only advance Lung Simulator ASL 500 in Malaysia that is being used for active research in ventilator application in medicine.

### Invasive and Non-Invasive Portable Ventilator

**Malaysia first locally produced Portable Ventilator – in clinical testing stage**

#### Main Features

- Volume and Pressure Synchronised Intermittent Mandatory Ventilation (VSIMV, PSIMV)
- Continuous Positive Pressure (CPAP)
- Supports multiple breath types: Volume Control, Pressure Control and Pressure Support

#### Indicative of Use

- Sub-Acute Care, Acute Care and Home Care
- Adult and Paediatric Patients

#### Designed for Convenience

- Compact, lightweight and quiet
- Bedside and portable use
- Easier user operation
- Lithium-ion battery provides up to 11 hours of ventilation operation with real time battery usage
- Automatic pre-use check of entire system before operating
- Equipped with internal Air Supply for area with no Medical Air Supply
- Ventilator parameters and alarm settings are linked to reduce the risk of clinically inappropriate settings

#### Applied Standards

- ISO 13485: 2016 Quality Management Standard for Medical Devices
- ISO 9001:2018 Quality Management Standard
- Act 737: Malaysia Medical Device 2012







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



+6(03) 7726 8632 / 7727 9859 / 7728 4752



+6(03)7725 8636



info@advancepact.com

[www.advancepact.com](http://www.advancepact.com)