

Enigma Technical Solutions Sdn Bhd



Introductory Presentation



About US



- ❑ ENIGMA TECHNICAL SOLUTIONS SDN BHD (ENIGMA) caters to address the following **core business areas**:
 - 🕒 **Defence,**
 - 🕒 **Oil & Gas,**
 - 🕒 **Marine & Aviation,**
 - 🕒 **Fabrication & Engineering,**
 - 🕒 **System Integration & IT,**
 - 🕒 **Technical Consultancy,**
 - 🕒 **Asset Management Systems,**
 - 🕒 **Integrated Logistics Support (ILS)**

- ❑ Enigma is **uniquely positioned** through our **collaborative network** to **match Technology** and **Know-How with local players**, as well as to **leverage** on our international **industrial partners** to **increase the market penetration** of Products and Services.

- ❑ As main contractors, we provide **complete outsourcing solutions** to both **government** and **commercial projects**.



What Do We Do – Part 1 ?



Our Divisions

International Sales & Marketing

- Sales & Marketing division addressing all international needs of our group of companies and dealing closely with our principals and partners in Italy, Spain, UK, France, Germany and Korea.

Fabrication and Engineering Services

- Sister Company with main activities in Automation and Fabrication work scope. Equipped with complete machineries such as Bending machine, CNC Lathe machine, Machining & Milling Station, Inspection tools, handling equipment, Testing instrument. Allows us to support fabrication, maintenance and repairing works of any metal, steel and aluminum fabrication scope of works.
- Maintenance, Repair and Overhaul (MRO) and In Service Support (ISS) activities for various auxiliary systems including Reverse Osmosis Systems, FO./LO Purifiers, Sewage Treatment Plants, Air Compressors, HVAC, cranes, etc. Also various Electrical & Electronics systems Switchboards, Communications Systems, Navigation Systems, ICCP/MGPS, EM Log, Echo Sounder, Gyro, etc.
- Technical Documentation, Asset Management System and Training.

Supply Chain Operations

- "One Stop" Supply Chain Solutions Division specializing in Marine, Oil & Gas and Defence industries.
- Procurement Solutions for hard to find and urgent items.
- Tailored Sourcing arrangements and collaborations.
- Integrated Logistics Support (ILS) packages.

What Do We Do – Part 2?



Our Divisions

Management Consulting

- Sister Company providing client targeted solutions covering financial and project management needs and concerns from business proposals, investment appraisals, financial management, project management, contract administration, contracts & proposals and supply chain strategies.
- As a value added feature we provide all business services in the following language: English, Spanish, German, Italian, Bahasa Malaysia, Japanese, Arabic, Hindi, Tamil and Korean.

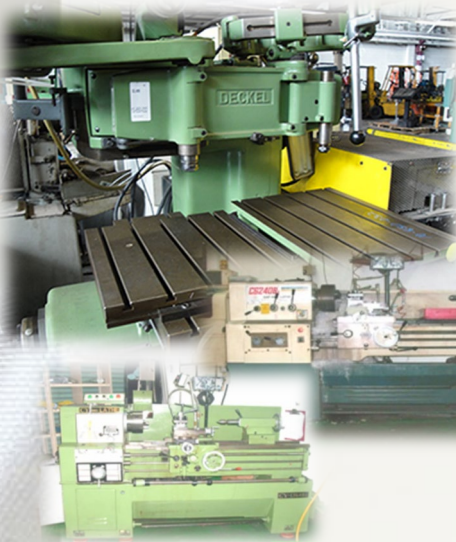
IT Solutions

- Providing IT management, IT consultancy, architect solution integration, customized applications, maintenance services and other related services.
- Implementation and Maintenance of various Asset Management Software and Solutions.
- We also provide services to architect and implement reliable, robust and secure large scale data warehouse and computing environments.
- Other services cover Custom web-based applications, Messaging and Collaboration, Management Information Systems, Networking Infrastructures, Enterprise Storage Solutions.

We are **YOUR** Fabrication Partner



- ❑ We offer **Fabrication and Engineering Services.**
- ❑ Our facilities are equipped with complete machineries such as **Bending machine, CNC Lathe machine , Machining & Milling Station , Inspection tools , handling equipments , Testing instrument.**
- ❑ We are able to support
 - **fabrication,**
 - **maintenance and**
 - **repairing works**of any size **metal, steel and aluminium** fabrication scope of works.
- ❑ Further activities include **repairing** and **rewinding** of multiple type of **electrical motor, generator set, tower crane hoisting,** and related electrical engineering works as **support** to group **downstream customer activities.**



OUR PRINCIPALS AND PARTNERS



❑ **NG-Litef** (Integrated Navigation System including Gyros)

World-class leader in INS including gyro systems for army, air force and navies around the world, including onboard submarines.



❑ **CITOR** (Desalinators & Reverse Osmosis Systems)

Australian-based manufacturer of Reverse Osmosis Systems



❑ **VICUS DT** (Propellers and Naval Architecture Services)

VICUS DT is an engineering design and analysis service company, that allows customers easy access to a highly skilled engineering resources with shipbuilding, shipping offshore and energy industries.



❑ **OMEYLABS** (Wave Tank Solutions)

OmeyLabs supplies teaching flumes, wave tanks and wave basins worldwide to ocean laboratories for teaching, research & technology development, film, TV and artist projects.



❑ **ROCHEM** (Reverse Osmosis Systems)

Leading in Reverse Osmosis and Waste Water Treatment, Gas Turbine & Process Compressor Cleaning Systems and Chemicals.



❑ **RWO VEOLIA** (Water and Wastewater Systems)

Technologies for all types of water treatment, whether on board ships or offshore installations, for new builds as well as retrofitting.



❑ **AviationSkyBiz** (Aviation Products & Services)

AviationSkyBiz is a leader in the design, fabrication, supply and consulting of helipad fixed and floating, lightings, HAPI (helicopter approach path indicator), aviation and deck spare parts and safety items, ground support systems, refueling and starting systems etc.



❑ **ATOS** (Naval Asset Management System AMPS)

Mission-critical asset management system that four of the world's navies rely on for everything from tracking vessels, aircraft and munitions to scheduling maintenance and managing personnel.



OUR PRINCIPALS AND PARTNERS



- ❑ **EXPAL Systems - Tecnicas** (Anti-Sonar Decoys & Pyrotechnics)
World-class leader in Weapons and Ammunitions for all services. Based in Spain.



- ❑ **OPTONAVAL** (Helicopter Control and Landing System)
German based Helicopter control and landing system, deck lightings, etc



- ❑ **KOMODO ARMAMENT** (Armament and Ammunition)
PT Komodo Armament Indonesia is the first and only private company in the defense industry in Indonesia that manufactures law enforcement and military weapons and ammunition industries.



- ❑ **ICS Technologies** (Radars, Electro Optical, Fire Control Systems)
Italy based company, concentrating in the development of various Radars, Electro Optical and Fire Control Systems for shore and ship based platforms.



- ❑ **GRUPO EMANASA** (Engineering, Maintenance and Distribution)
The Grupo Emenasa is made up of 12 companies that offer efficient and innovative solutions. Located in the Vigo estuary in Spain, , it is one of the largest business groups in the naval industry in the southern Europe, acting also in the industrial and energy sectors.



- ❑ **FOURE LAGADEC** (Bolier and Piping manufacturing & maintenance).
Foure Lagadec specializes and masters in all the know-how in mechanics, piping, boiler manufacturing. Based in France.



OUR KOREAN PARTNERS



Product Range



A RIM
Machinery & Engineering

Items of Manufacture

- WINDLASS
- MOORING WINCH
- WINCH (CASCO, TOPPING, GUY)
- TOWING WINCH
- CAPSTAN
- SPECIAL MARINE WINCH
- LIFE BOAT DRIFT
- WEDGE BOOT DRIFT
- PROVISION CRANE
- HOSE HANDLING CRANE
- ENGINE ROOM CRANE
- FITTING FOR MARINE

Deck Machinery, Crane & Steering Gears

BUMHAN INDUSTRIES

Marine Air Compressors

HP/ LP Compressors & Compressed Air Systems

CHANGWON ENVIRONMENT

SEWAGE TREATMENT PLANT
SEA CLEAN SERIES (ELECTROLYSIS TYPE)
ADVANCED WASTE PURIFICATION

Sewage Treatment Plant & Water Treatment Systems

SAMGONG
SAMGONG CO., LTD

Fuel & Lube Oil Purifier

JUNG-A MARINE CO., LTD.

Ship & Deck Outfitting

SAMJIN INDUSTRIAL
Toward State of the Art Technology SAMJIN Industrial Co., Ltd.

Products Information
Submersible Motor Pumps
Water Treatment Equipments
Sewer Cleaned Motor Pumps
Mining Pumps

Pumps and Motors & Submersible Pumps

KINS INSTRUMENTS

Pressure and Temperature Gauges, transmitters & sensors



ENIGMA'S PROJECTS (2018 to date)

- Engineering & Asset Management for 2 RMN's 2 Training Vessels;
- Integrated Logistics Support for RMN's 2 Training Vessels;
- Integrated Logistics Support for MMEA's 6 Patrol Crafts (PC);
- Integrated Logistics Support for MMEA's 3 OPV vessels;
- Supply, Delivery & Installation of Marine Cranes for 6 MMEA's PC;
- Supply, Delivery & Installation of Marine Cranes for 3 MMEA's OPV.
- Repair and Maintenance Contract for RMN's Smartboard project.



ENIGMA'S PROJECTS (2018 to date)

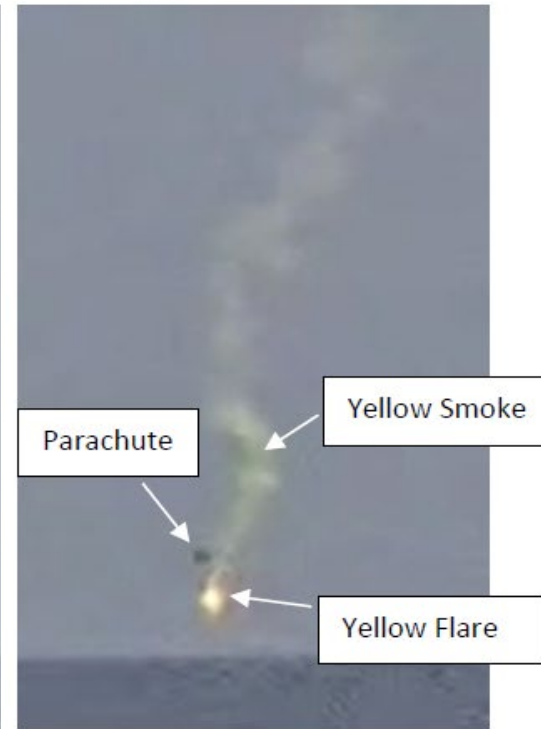
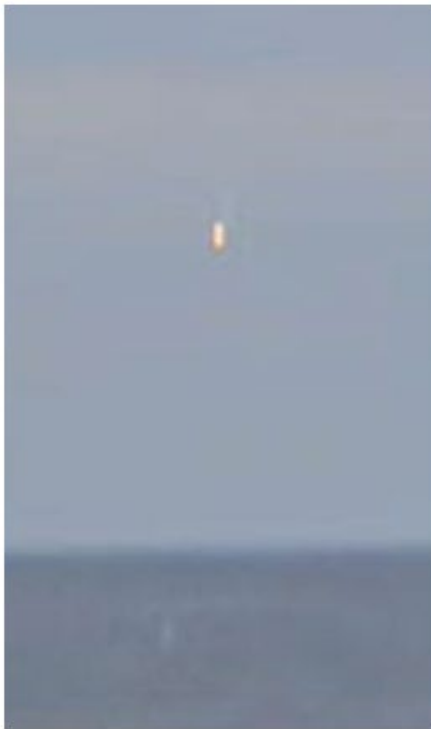


SUBMARINE – REVERSE OSMOSIS SYSTEM OVERHAUL



ENIGMA'S PROJECTS (Most Recent)

- Supply, Delivery and Testing of Flares & Anti-Sonar Decoys for the RMN (16 June 2024):





ENIGMA'S PROJECTS (Most Recent)

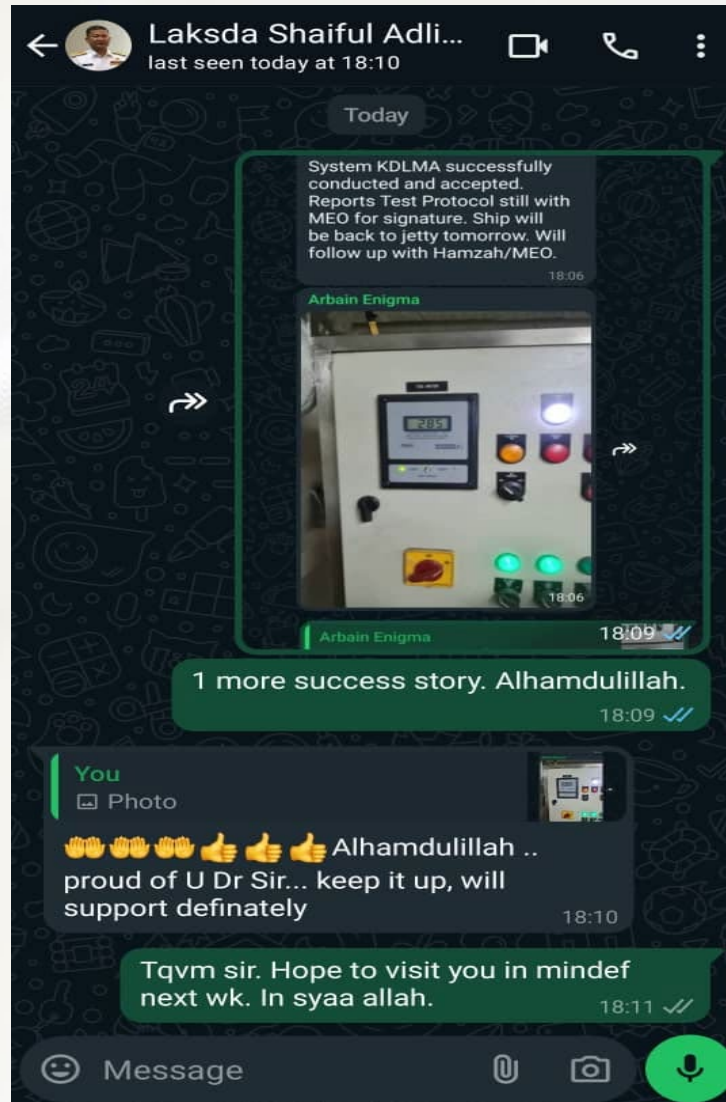
- Supply, Delivery and Testing of Flares & Anti-Sonar Decoys for the RMN (16 June 2024):





ENIGMA'S PROJECTS (Most Recent)

- Supply, Delivery and Testing of RO System for KD Laksamana Muhammad Amin (yesterday 11 July 2024):



ENIGMA'S ONGOING PROJECTS



LP & HP COMPRESSED AIR SYSTEMS



REPLACEMENT ONBOARD PVs.



MRO ONBOARD TRAINING VESSELS

ENIGMA'S ONGOING PROJECTS



ASSET MANAGEMENT SYSTEM SOFTWARE AND TRAINING (RMN)



ASSET MANAGEMENT SYSTEM SOFTWARE AND TRAINING (MMEA)



ENIGMA'S ONGOING PROJECTS



- UPNM – Installation, Testing & Commissioning Flume Wave Maker;
- UiTM – Dye Sublimation Transfer System;
- Agensi Nuklear – Ultrasonic Time-Of-Flight Diffraction Module;
- Institut Sukan Negara (ISN) – Eyetracker Supply & Training;
- Universiti Malaya (UM) - Compact ND-YAG Q Switch Laser 1064 NM & 532 NM;
- Universiti Teknikal Melaka (UTeM) – Hydraulic Hot Press Machine;
- Jabatan Kimia Malaysia – Colour Spectrometer Supply & Training.



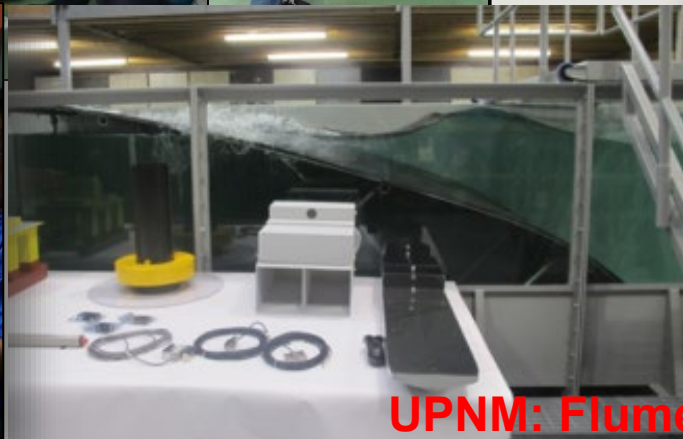
UteM: Hydraulic Hot Press



Jab Kimia: Colour Spectrometer



RMN:
Smart
Board
repair



UPNM: Flume Wave Maker



ENIGMA'S ONGOING PROJECTS



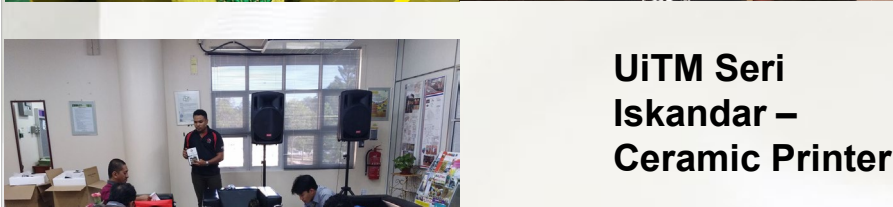
- UiTM Puncak Alam – Supply, Install & Commissioning Screen Printing Dryer;
- UiTM Shah Alam – Supply, Install & Commissioning Dyed Sublimation Transfer System;
- UiTM Seri Iskandar – Supply, Install & Commissioning 2 Unit of Amplifier;
- UiTM Seri Iskandar – Supply, Install & Commissioning Ceramic Printer;
- UiTM Merbok – Rental for 15 units of Projector
- UiTM Shah Alam – Supply, Install & Commissioning of 17+1 Projectors.



UiTM Puncak Alam –
Screen Printing Dryer



UiTM Shah Alam – Dyed
Sublimation Transfer System



UiTM Seri
Iskandar –
Ceramic Printer



UiTM Seri
Iskandar – 2
Unit of
Amplifier



UiTM Shah
Alam – 17+1
unit projectors

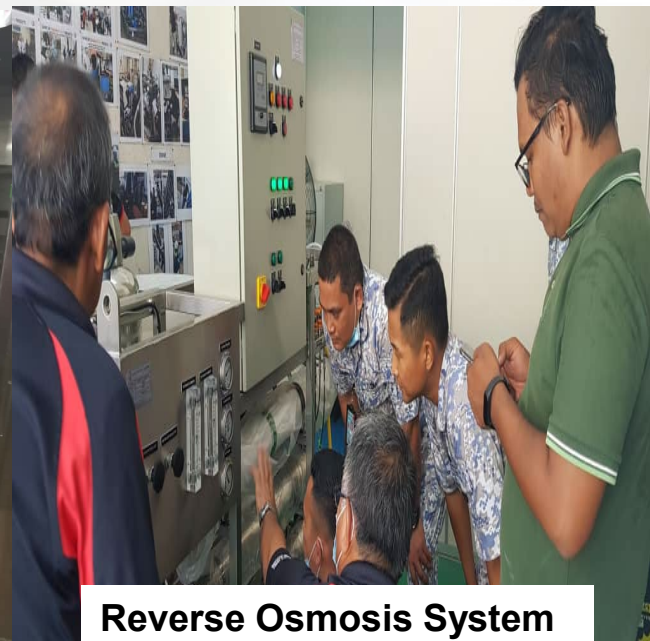


UiTM Merbok –
Rental Projector

ENIGMA'S ONGOING PROJECTS



Galley System



Reverse Osmosis System



HVAC & Refrigeration System



Switchboard & Control Panels

SOME OF ENIGMA'S PAST PROJECTS



UITM DYE SUBLIMATION TRANSFER SYSTEM





ENIGMA'S SMARTBOARD PROJECTS

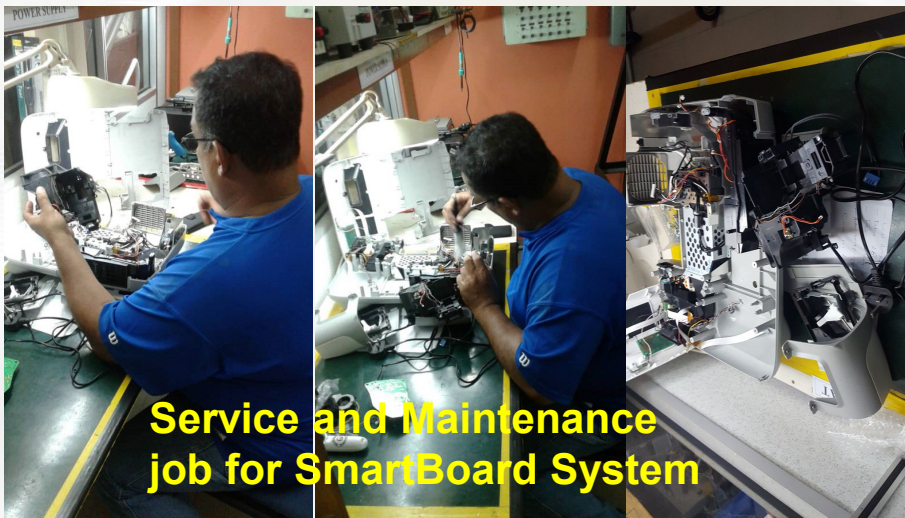
- KD PELANDOK, ROYAL MALAYSIAN NAVY (RMN) – MAINTENANCE SERVICE SMARTBOARD SYSTEM



Remove SmartBoard System for Defect Rectification



Setting to Work SmartBoard System



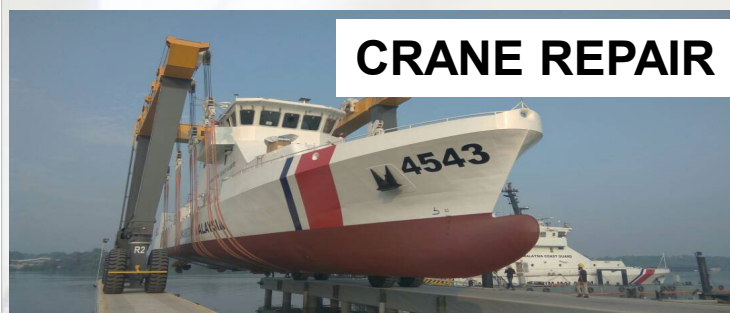
Service and Maintenance job for SmartBoard System



ENIGMA'S ONGOING PROJECTS



CRANE REPAIR WORKS AND SUPPLY OF NEW CRANES



ENIGMA'S PAST PROJECTS



FUEL OIL AND LUBE OIL PURIFIER WORKS



ENIGMA'S PAST PROJECTS ON GYRO SYSTEM



KD Teguh



KD Terengganu



Submarines

ENIGMA'S PAST PROJECTS ON OVERHAUL OF SWITCHBOARD WORKS



EXPERT MANPOWER SUPPLY AND SUBCONTRACTOR WORKS TO VARIOUS CUSTOMERS



Enigma Team



Ismail

Mustafa



At Labuan Shipyard

Ismail

Arbain

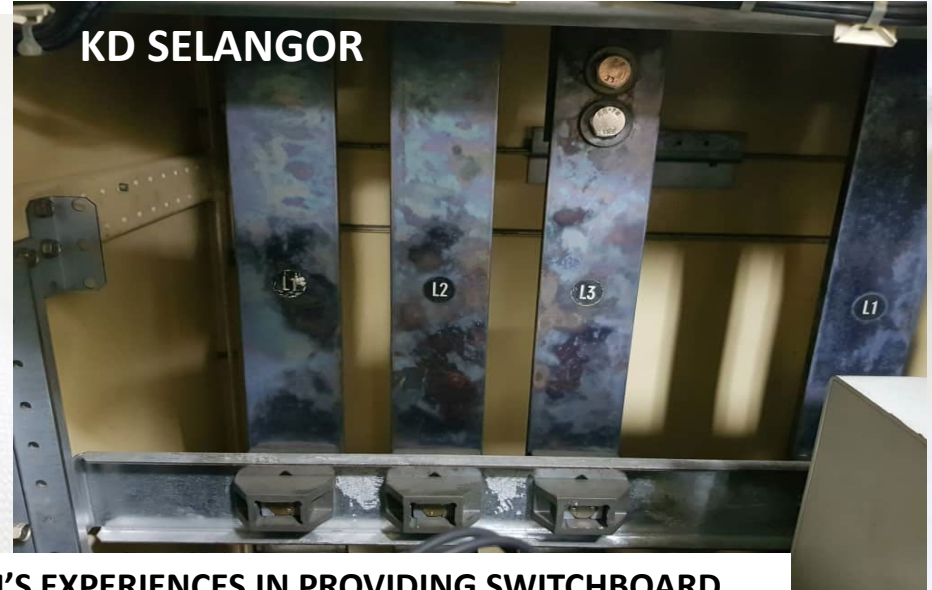
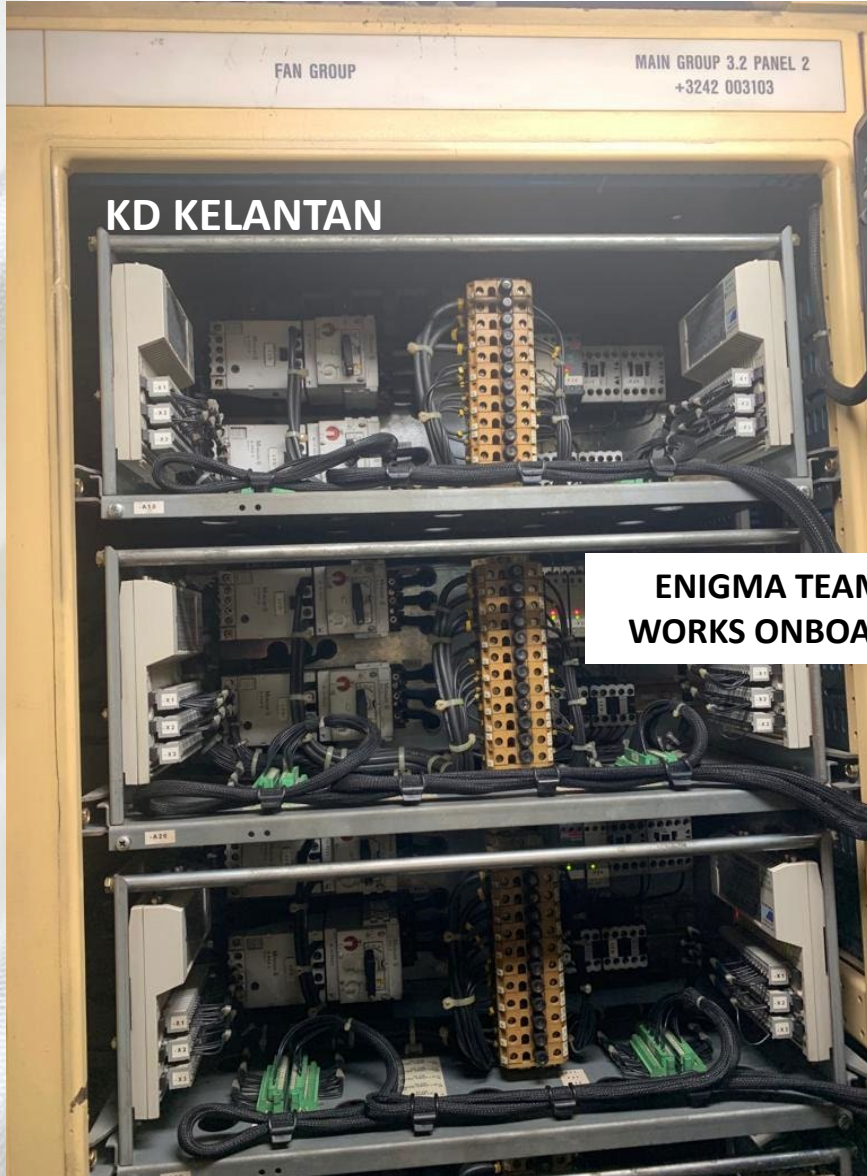
Mustafa

Enigma Team onboard KD SELANGOR

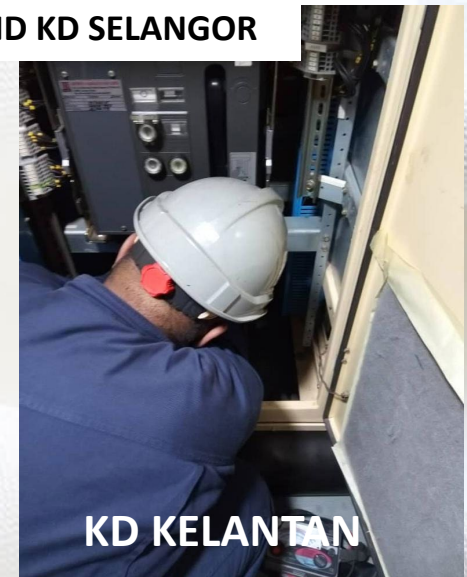
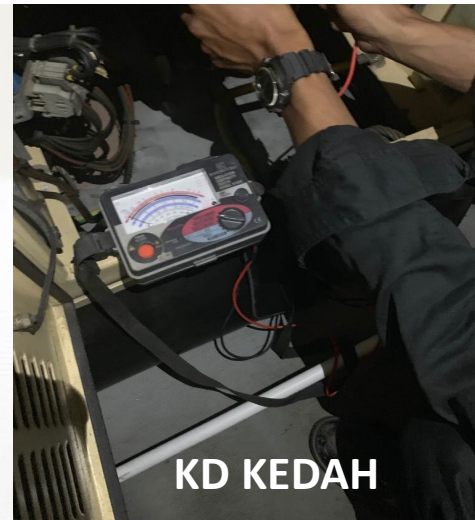
ENIGMA'S PAST PROJECTS ON OVERHAUL OF SWITCHBOARD WORKS



EXPERT MANPOWER SUPPLY AND SUBCONTRACTOR WORKS TO VARIOUS CUSTOMERS



ENIGMA TEAM'S EXPERIENCES IN PROVIDING SWITCHBOARD WORKS ONBOARD KD KEDAH, KD KELANTAN AND KD SELANGOR



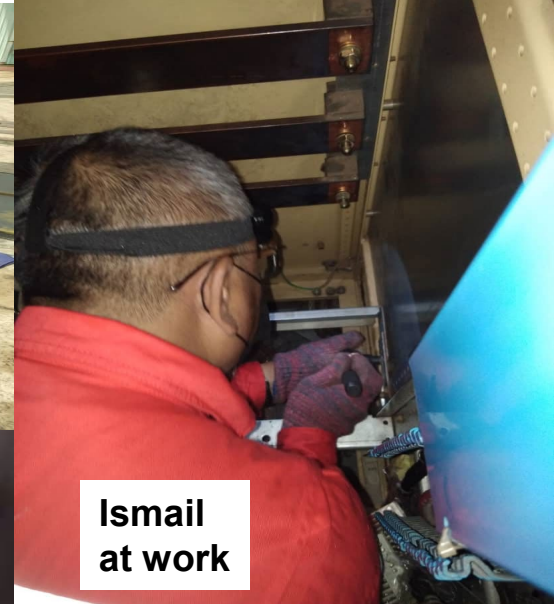
ENIGMA'S PAST PROJECTS ON OVERHAUL OF SWITCHBOARD WORKS



EXPERT MANPOWER SUPPLY AND SUBCONTRACTOR WORKS TO VARIOUS CUSTOMERS



Busbars before cleaning



Ismail at work



Mustafa at work

Busbars after cleaning

SOME OF ENIGMA'S PAST PROJECTS



OTHER PROJECTS

MV BERKAT SAMUDERA

GPS and Comms



SS WISDOM

Switchboard, Steering Gear



ENIGMA'S ONGOING EFFORTS



Deputy Chairman of KITEMM



ENIGMA'S ONGOING EFFORTS



Courtesy Calls to Chief of Navy and various Admirals of RMN and MMEA



ENIGMA'S ONGOING EFFORTS



Visit by PDRM Bukit Aman and various PDRM units



Courtesy Call and Presentations Commander ESSCOM



ENIGMA'S ONGOING EFFORTS



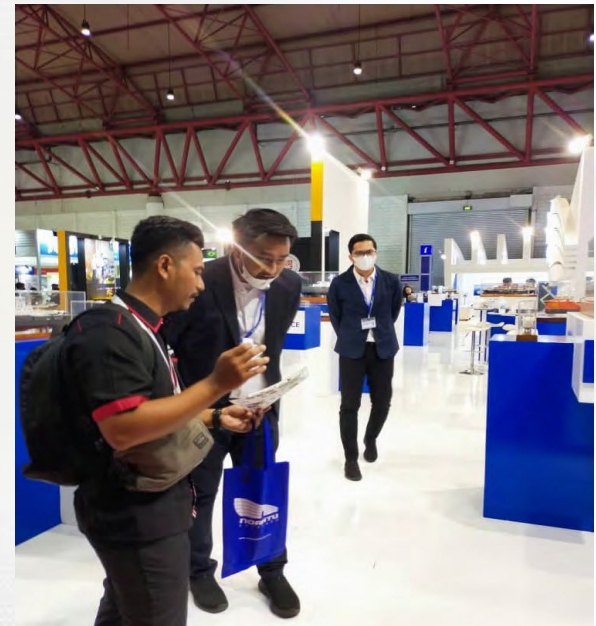
Attending Exhibitions



Presenting to the Minister



ENIGMA'S ONGOING EFFORTS



Exhibiting at DSA 2022



Attending Indo Defence 2022 with our Principals



INTERNSHIP OF UNIVERSITY STUDENTS – UTM TRAINEES 2021





INTERNSHIP OF UNIVERSITY STUDENTS - UTM TRAINEES 1/2019

SOME OF PROGRAMS WITH UTM TRAINEES 1/2019

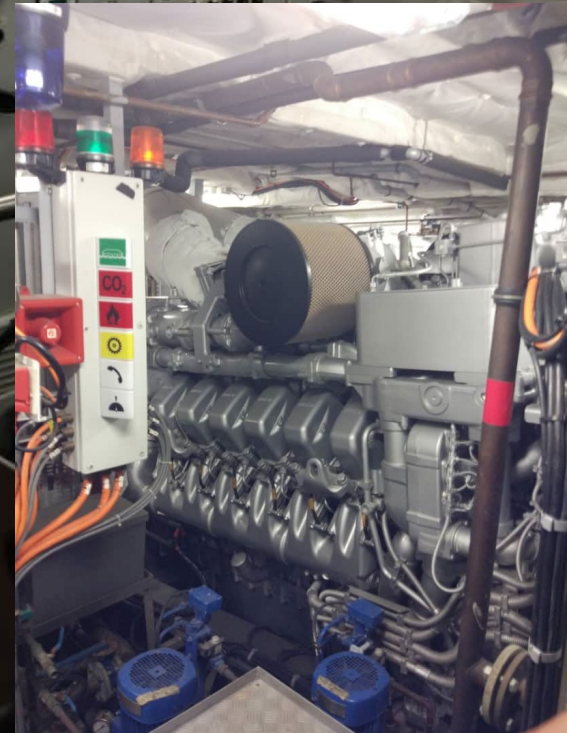


SOME OF PROGRAMS WITH UTM TRAINEES 1/2019



SOME OF PROGRAMS WITH UTM TRAINEES 1/2019





**SOME OF PROGRAMS
WITH UTM TRAINEES
1/2019**

SOME OF PROGRAMS WITH UTM TRAINEES 1/2019





Certificate of Appreciation

This is to certify that

ENIGMA TECHNICAL SOLUTIONS SDN BHD

has participated in Industrial Training Programme for undergraduate student(s) from

SCHOOL OF MECHANICAL ENGINEERING, FACULTY OF ENGINEERING

Starting from

19TH JULY 2021 UNTIL 8TH OCTOBER 2021



ASSOC.PROF Ir. Ts. DR. ZAINI AHMAD
CHAIR
SCHOOL OF MECHANICAL ENGINEERING
FACULTY OF ENGINEERING
UNIVERSITI TEKNOLOGI MALAYSIA



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

FAKULTI KEJURUTERAAN MEKANIKAL
FACULTY OF MECHANICAL ENGINEERING

Certificate of Appreciation

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has participated in Industrial Training Programme for undergraduate student(s) from

SCHOOL OF MECHANICAL ENGINEERING, FACULTY OF ENGINEERING

starting from 10th June 2019 until 30th August 2019

PROFESSOR DR. MOHD HASBULLAH BIN HJ. IDRIS
CHAIR
SCHOOL OF MECHANICAL ENGINEERING
FACULTY OF ENGINEERING
UNIVERSITI TEKNOLOGI MALAYSIA





DID2021020

THE CERTIFICATE IS PRESENTED TO:
ENIGMA TECHNICAL SOLUTIONS SDN BHD

AS A MEMBER UNDER WORKING GROUP:
MARITIME WORKING GROUP
VALID FROM : 29-07-2021 UNTIL 29-07-2024

FOR SUCCESSFULLY ACHIEVING



IN MIDES COMPETITIVENESS RATING FOR ENHANCEMENT (MSCORE).

Regards


DATO' SRI ISMAIL SABRI BIN YAAKOB
MINISTER OF DEFENCE MALAYSIA

CERTIFICATE
OF MEMBERSHIP
MALAYSIAN INDUSTRY COUNCIL FOR
DEFENCE, ENFORCEMENT & SECURITY (MIDES)



Serial No.: 1095762V



TRAINING PROVIDER REGISTRATION CERTIFICATE

AKTA PEMBANGUNAN SUMBER MANUSIA BERHAD, 2001

ENIGMA TECHNICAL SOLUTIONS SDN. BHD.

*is hereby registered as a training provider under
Kumpulan Wang Pembangunan Sumber Manusia*

APPROVAL DATE	EXPIRY DATE
20/01/2022	19/01/2024

This approval is subject to the current terms and conditions of
Pembangunan Sumber Manusia Berhad

19/01/2023
.....
Release Date



PEMBANGUNAN SUMBER MANUSIA BERHAD

DELIVERING QUALITY, DEVELOPING EXCELLENCE



PETRONAS



LICENSE TO SUPPLY PRODUCT/SERVICE TO EXPLORATION AND OIL/GAS COMPANIES IN MALAYSIA

In exercising the powers conferred by Section 7, Petroleum Development Act 1974 and in accordance to Regulation 5 of the Petroleum Regulation 1974, delegated to me by the Prime Minister of Malaysia, I hereby issue the license under Regulation 3 of the Petroleum Regulation for the purpose of the above to:

Certificate generated at: 04.07.2024

ENIGMA TECHNICAL SOLUTIONS SDN. BHD. (201401019675)
NO. 286A, KOMPLEKS PERNIAGAAN MERGONG JAYA KM 4.5, SEBERANG JALAN PUTRA, 05150 ALOR SETAR, KEDAH,

Details of License are as follows:

Company's No : 201401019675
Type of Company : License
Duration of License : 02.07.2024 - 01.07.2027
License Fee : RM 750.00
Categories of Product/Service : As attached in 'CATEGORIES OF LICENSE / REGISTRATION'.

COMPANY'S NAME : ENIGMA TECHNICAL SOLUTIONS SDN. BHD.

LICENSE NO : 201401019675

LICENSE PERIOD : 02.07.2024 - 01.07.2027

Table with 5 columns: No, Section, Remark, Effective Date, Due Date. Row 1: Annual Audited Report, Please update latest AFS dated 31/12/2023 in PLMS (and to be reflected in SSM) by 31/8/2024. Failure to comply by the deadline or if the company's Net Worth is negative, vendor status will be Non-Compliance, 29/06/2024, 30/08/2024

Table with 8 columns: NO, L/R/PROVISIONAL, Service / Supplier Code, Special Condition, Mode of Operation, Principal Name (If Applicable), Approval Date / Time, Expiry Date. Rows 1-5 listing license categories for lifting equipment, electronic tools, general ship repairs, personnel protection equipment, and shipyard services.



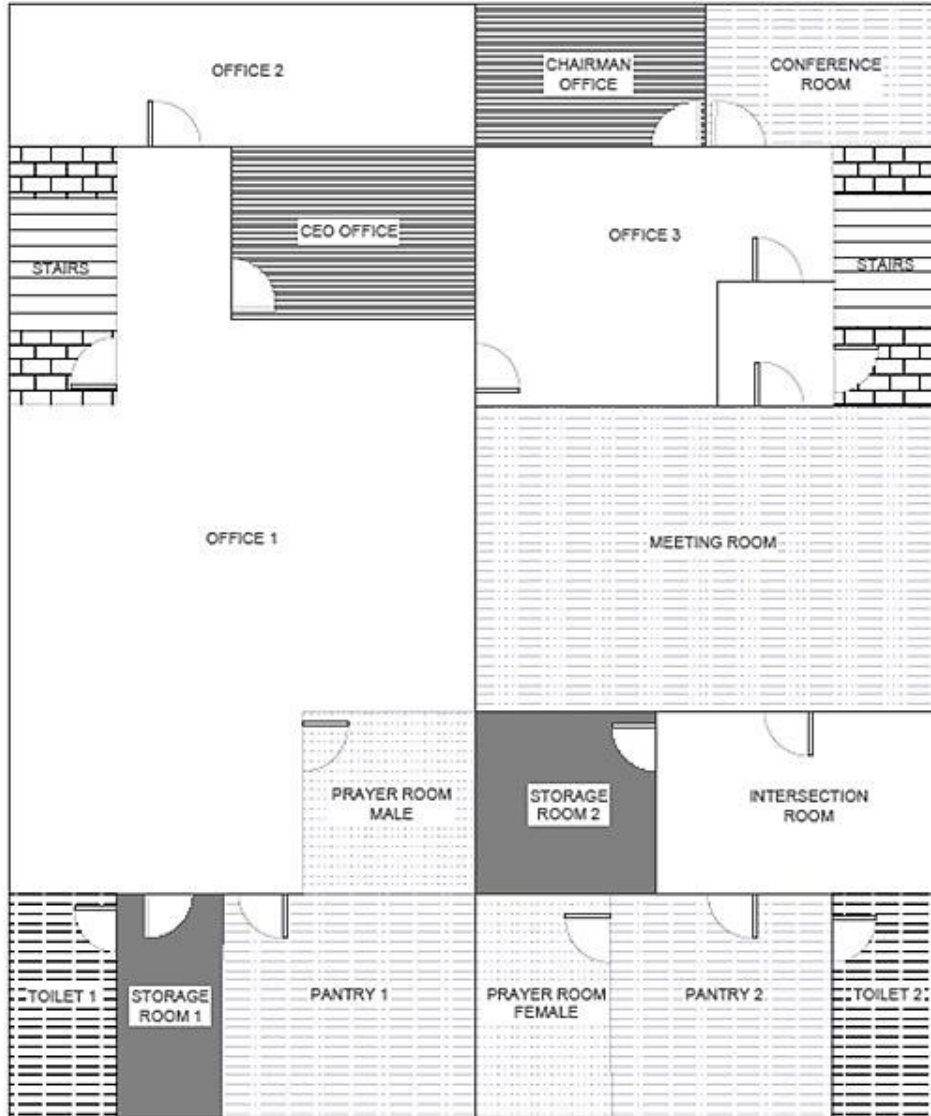
ENIGMA OFFICE





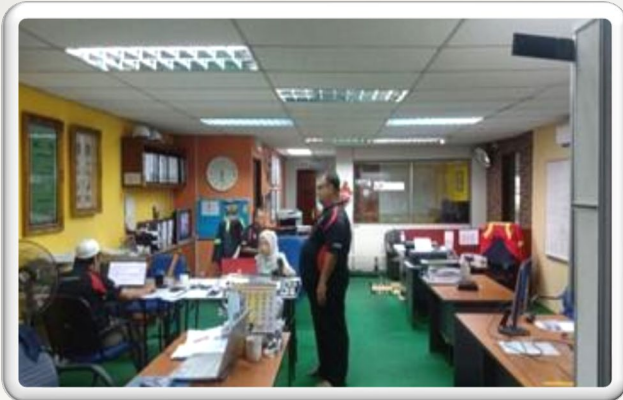
OFFICE LAYOUT

ENIGMA OFFICE LEVEL 1





ENIGMA OFFICES





CONFERENCE ROOM







MEETING ROOM



PRAYER ROOM

MALE PRAYER ROOM



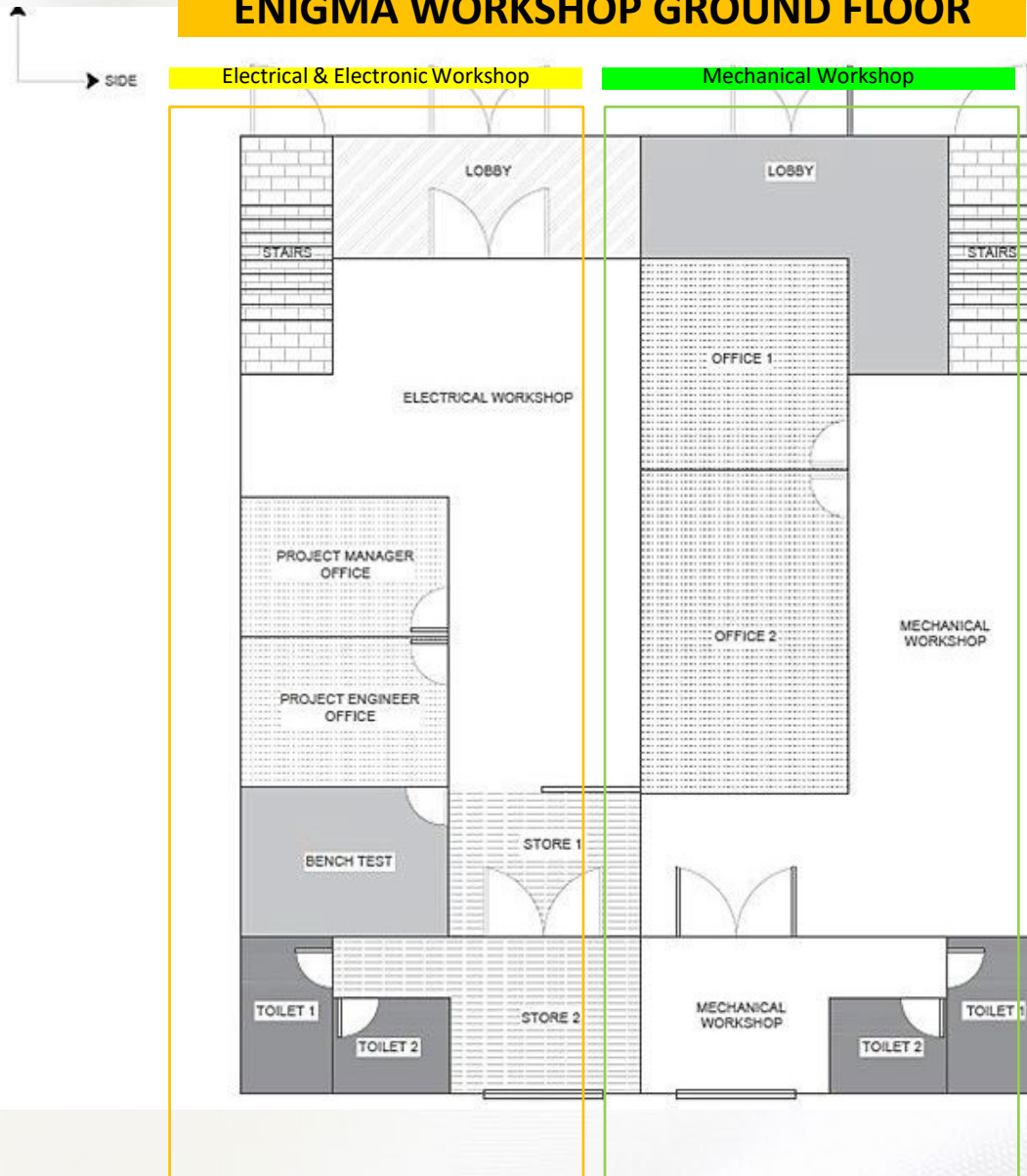
FEMALE PRAYER ROOM





WORKSHOP LAYOUT

ENIGMA WORKSHOP GROUND FLOOR





ELECTRICAL & ELECTRONIC WORKSHOP





MECHANICAL WORKSHOP

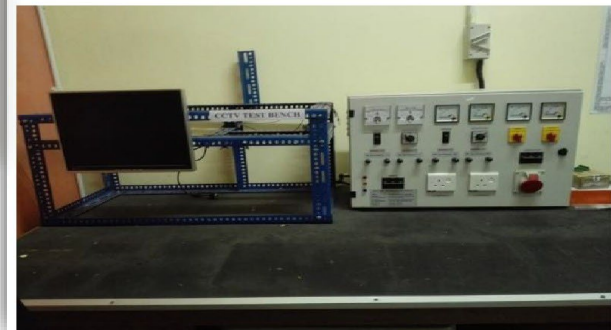


TOOLS, TESTING EQUIPMENT AND SPECIAL TOOLS





TOOLS, TESTING EQUIPMENT AND SPECIAL TOOLS





TOOLS, TESTING EQUIPMENT AND SPECIAL TOOLS





WORKSHOP DI TELIPOK, KOTA KINABALU, SABAH





KITeMM
1355901-K

**VICE ADMIRAL DATO' HJ MOHAMMAD ADIB
BIN ABDUL SAMAD (R)**
Chairman

+6019 2359433, +605 6124318

chairman@kitemm.com.my

No 57 (First Floor), Persiaran Venice Sutera 1,
Desa Manjung Raya,
32200 Lumut, Perak, Malaysia

kitemm.com.my

CONSORTIUM OF MARINE INDUSTRY TECHNOLOGY MANJUNG



KITeMM
1355901-K

DR. AL-SHAFIQ BIN ABDUL WAHID
Deputy Chairman

+6012 2911404, +605 6124318

depchairman@kitemm.com.my

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32200 Lumut, Perak, Malaysia

kitemm.com.my

CONSORTIUM OF MARINE INDUSTRY TECHNOLOGY MANJUNG

Konsortium Industri Teknologi Marin Manjung KITeMM



(Members 1 Mar 2021)



AANS Marine Sdn Bhd



ENIGMA
TECHNICAL
SOLUTIONS SDN BHD

EXCELSIOR · TEMPORA MUTANTUR · SEMPER PARATUS



A Consortium of Companies from
various expertise and
specializations



Associate Company

ANQ S/B
Annapolis Synergy S/B

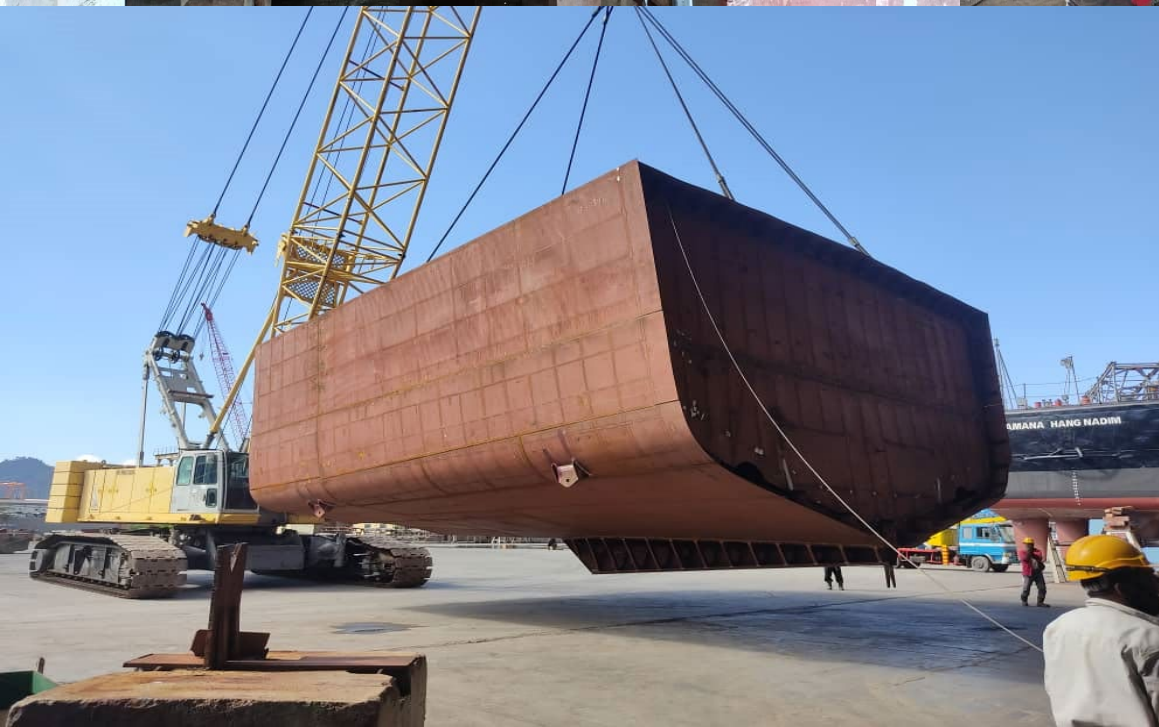
and
more

Associate Company
Kiara Sejati Enterprise

INVOLVEMENT IN SHIPBUILDING ACTIVITIES



INVOLVEMENT IN SHIPBUILDING ACTIVITIES





Who is **ALREADY** working with **US** ?



Partners



Principal/Agents



Enigma Europe

Europe@enigmatechnicalsolutions.com



ENIGMA TECHNICAL SOLUTIONS SDN BHD

EXCELSIOR • TEMPORA MUTANTUR • SEMPER PARATUS

HQ Address:	23-1, Jalan 45A/26, Taman Sri Rampai, Setapak, 53300 Kuala Lumpur, Malaysia.
Workshop:	56 & 57, Pesiaran Venice Sutera 1, Desa Manjung Raya, 32200 Lumut, Perak, Malaysia.
Email:	Projects@EnigmaTechnicalSolutions.com Technical@EnigmaTechnicalSolutions.com Sales@EnigmaTechnicalSolutions.com
Phone:	+60-367354570 (HQ), +605-6124318 (Workshop), 006012-2911404 (Mobile)
Fax:	+60-341420301
Website:	www.EnigmaTechnicalSolutions.com



Lets **US** resolve your missing puzzle...



Where you are

Where you want to be