



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889



COMPANY PROFILE





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COMPANY PARTICULARS

Company Name	BMech Engineering Sdn. Bhd.
Company Registration no.	1105263-T
Date of Incorporation	18 th August 2014
Headquarters	Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu, 97000 Bintulu, Sarawak. Landline: +60(86) 317 756 Mobile: +60(13) 802 4889
Engineering Office	Unit 205, Block A, Level 2. Kelana Business Centre 97, Jalan SS7/2, Kelana Jaya 47301, Petaling Jaya, Selangor Darul Ehsan Tel: +603-7498 0478
Kuching Workshop	Sublot No.7, Lot 1978, Block 32, Muara Tuang Land District, 8 ½ Miles, Penrissen Road Samarahan, 93250 Kuching, Sarawak Tel: +60(12) 876 5825



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ASSOCIATED COMPANY



BMECH – UHPC ENGINEERING SDN BHD

A joint venture between BMech Engineering Sdn. Bhd. with UHPC Engineering Pte. Ltd. to focus on the engineering and execution of projects which specialist in using ultra high-performance cementitious concrete for some unimaginable applications. UHPC Engineering Pte. Ltd is one of the only few experts in this region on this subject with extensive experience and professional personnel.

CONSULTING PARTNER



ASTAKA CONSULTING ENGINEERS SDN. BHD.

Astaka Consulting Engineers Sdn Bhd (ACE) has been formed and managed by Sarawakian practising professional engineers with extensive experiences in Civil and Structural Engineering, Oil & Gas, Drainage & Irrigation, Water Supply, Roads, Bridges. Together with a team of dedicated engineers and staff, ACE has successfully completed various projects for a number of well-known clients.



JAYA GEMILANG KONSULT PLT

Jaya Gemilang Konsult Plt. (JGK) is one of the well-known civil and structural consultant firm which have extensive experience consulting work in both West Malaysia and East Malaysia. BMech and JGK has been working hand in hand on various project since the establishment of both company in 2014 and we have been successful in achieving beyond client's expectation on many occasions.



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INTRODUCTION

BMEch Engineering Sdn. Bhd. Is an ISO 9001:2005 company which was established in 2014.

BMEch is committed to provide our customers with competitive solutions, and value-added services.

We are continuously seeking improvement in our services, and always ready to meet our clients' highest expectations.

Our Business & Capabilities

BMEch with its team of highly experience staff is able to offer the following specialised services. Here's a summary of what we can offer:

- Plant Engineering, Construction and Commissioning works
 - Design & Engineering works; general arrangement layout design, FEED study, 3D / 2D design drawing preparation, Isometric generation with 3D model.
 - Detail engineering analysis such as piping flexibility & hydraulic analysis, structural analysis, ASME Pressure Vessel & Nozzle Calculation.
 - Terrestrial 3D Laser Scanning (TLS), for reverse engineering on existing facilities and upgrading works
 - Pipeline engineering services for Gas, Oil & Water
- Piping and Mechanical Works.
 - Fabrication, Erection
 - Non-metallic piping, e.g. GRE jointing, HDPE or UPVC welding etc
 - Underground pipe Wrapping, work with DensoClad or Polyken and perform Holiday Test
 - Pre-Heating & Post Weld Heat Treatment (PWHT)
- Specialist Commissioning Work i.e.
 - Air blowing & Steam Flushing for Boilers or Pipeline
 - Supply & Rental of Target Plate Inserter & Steam Silencer for steam flushing
 - Pigging
- Plant Shutdown, Turnaround and Maintenance works
 - Project / Turnaround Management & Skilled Manpower Supply
 - Hydraulic Bolt Torqueing and Tensioning up to 3" Bolt size
- Steel Structure Fabrication & Erection Works
- Modular Skid Fabrication, Testing & Commissioning
- Site Erected Storage Tanks, with Jacking Method
- Pressure Vessel Fabrication & Erection Works
- Civil & Structural Works for Plant and Equipment foundationy6
- Package Boiler Installation & Maintenance, temporary boiler rental



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Our organization is also equipped with a complete suite of design tools, which strongly enhance our design capabilities:

- **Autodesk Plant 3D Design Suite®** - Intelligent 3D modelling software, used for complete plant design including equipment modelling and layout, intelligent piping design; generating plant layout drawing, automatic generation of piping isometrics, 3D walkthrough and review of plant at all stages (design stage, construction stage, completion stage..etc.).
- **Bentley's AutoPIPE Advanced Pipe Stress Analysis®** - A state of the art pipe stress software, capable of reviewing piping stress code, piping support loads, nozzle loads evaluation.
- **Bentley's PlantFLOW Plus®** - A state of the art hydraulic analysis software (steady state) capable of evaluating piping hydraulics of a huge range of fluids such as steam, water, hydrocarbon and various type of chemical. Additionally, thermal losses through the pipe & insulation can also be evaluated.





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TEAM OF MANAGEMENT

Chief Executive Officer
and Managing Director

Victor Voon

Email: peiliang.voon@bmechsb.com

Tel: +60(16)-983 9756
+60(13)-813 3889

Chief Operation Officer

Fam Whai Yun

Email: whaiyun.fam@bmechsb.com

Tel: +60(16)-879 9692

Engineering Manager

Lee Kok Onn

Email: kokonn.lee@bmechsb.com

Tel: +60(12)-369 8419

General Manager

Teo Guan Geok

Email: guangeok.teo@bmechsb.com

Tel: +60(12)- 876 5825

Electrical Manager

Koh Way Siong

Email: waysiong.koh@bmechsb.com

Tel: +60(19)-216 0196

The management team have extensive experience in Plant Engineering, Procurement, Construction and Commissioning, especially District Cooling and Cogeneration Power Plant



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EXPERIENCE OF EXECUTIVE PERSONNEL IN INDUSTRY

Position	Name	Industry Experience	
		Engineering & Construction	Power, Chemical, Oil & Gas
Managing Director	Victor Voon	26 Years	22 Years
Chief Operation Officer	Fam Whai Yun	22 Years	12 Years
Engineering Mgr.	Lee Kok Onn	17 Years	15 Years
General Manager	Teo Guan Geok	15 Years	14 Years
Electrical Mgr.	Koh Way Siong	17 Years	15 Years
Project Manager 1	Lim Su Keng	28 Years	20 Years
Project Manager 2	Mohd. Nazirul Izdihar bin Mohd Razid	6 Years	6 Years
Senior Project Engineer	Goh Siew Lin	20 Years	20 Years
Project Engineer	Hee Hui Ken	3 years	3 years
QAQC CSWIP 3.1	Qaayum Faiz Bin Mohammed Kamal	13 Years	12 years
Document Control	Dina Francis	10 Years	7 Years
Supervisor	Tan Kah Chai	37 Years	27 Years
Supervisor	James Ak Berry	12 Years	10 Years
Supervisor	Walter Ak Tukok	12 Years	10 Years
Supervisor	Liew Kim Fatt	20 Years	14 Years



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Qualified GRE Bonder

Position	Name	Qualified Product	Qualified Range
Project Manager	Teo Guan Geok	Bondstrand-3000	Up to 24 Bar
Foremen	Liew Kim Seng	Bondstrand-3000	Up to 24 Bar
Foremen	James Ak Berry	Bondstrand-3000	Up to 24 Bar
Fitter	Michael Robert	Bondstrand-3000	Up to 24 Bar



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EXPERIENCE OF MANAGEMENT TEAM



**Kuala Lumpur International Airport 2
District Cooling Plant
Shinryo (M) Sdn Bhd**

**Electrical Driven Centrifugal Chiller,
5,000 RT x 3 trains**

**Thermal Energy Storage Tank,
16m Dia x 22mH, 18,000 RT**



EXPERIENCE OF MANAGEMENT TEAM

Crude Distillation Unit (CDU), PPTSB, Terengganu

Synerlitz (M), Profmech Engineering

CDU EPCC project, the project aims to upgrade existing plant crude oil distillation process efficiency by introducing a series of new Alfa Laval sourced Heat Exchanger into the existing system.

The project involved 118 Tie-in to existing plant system executed in a record time of 21 mechanical days.





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EXPERIENCE OF MANAGEMENT TEAM



MLNG New Boiler (MNB), MLNG, Bintulu

Synerlitz (M), Profmech Engineering

Piping Package, 1.8 KM long 20" HP
Steam line from MLNG Tiga to MLNG
Satu across brown field.

35,000 Dia-Inch piping works; pipeline,
boiler power piping, balance of plant
interconnecting pipes, PWHT, Bolt
Tensioning up to 2"

4 Nos Water Tank up to 10,000m3.

8 Tie-ins to existing plant during
shutdown period



EXPERIENCE OF MANAGEMENT TEAM

**MLNG New Boiler (MNB),
MLNG, Bintulu
Synerlitz,**

**Gas line and Condensate line
Pigging, Steam Blowing
Steam Blow Company,
Profmech Engineering**

Steam Blowing for

380 Ton/hr Boiler,
20" HP Steam line ~ 1.5 Km long,
20" LP Steam Line ~ 1.0 Km Long
Design and erection of temporary
existing pipe and silencer
with water quenching

Pigging

10" Condensate, 1.3 km long
6" Gas line, 1.8 km long

HT, pig and dry the line, follow by nitrogen
preservation



Target Plate



Target Plate Inserter &
Water Quench



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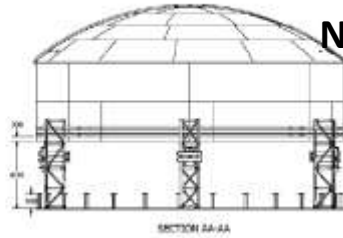
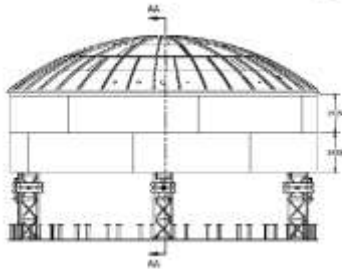
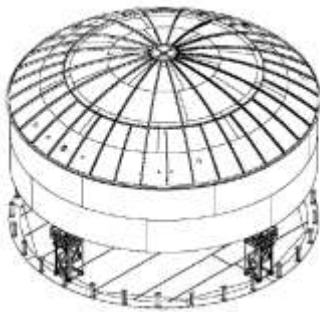
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BMECH PROJECT EXPERIENCE

In collaboration with Fonco Engineering



New AN Tank, Toray Plastic (M), Penang Fonco Engineering

Ø19m x 19.5m H, 147 Ton, Jacking Method

Cogeneration, Toray Plastic Malaysia, Penang

Pure Water Tank

Soft Water Tank

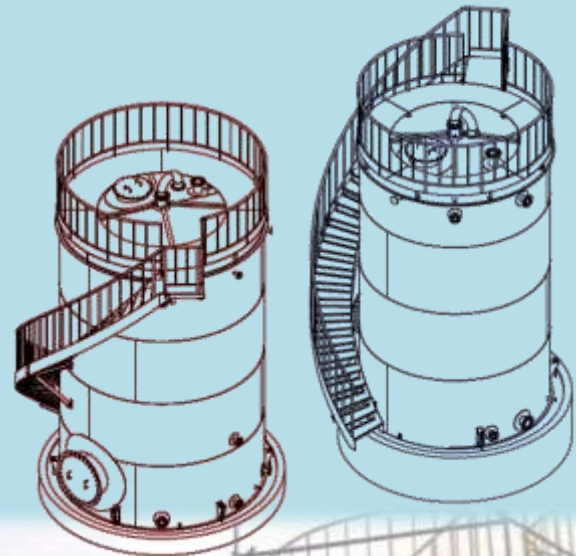
Ø3.5m x 5.5m(H), 60m³

Ø4.0m x 66.0m(H), 75m³

Package Boiler Installation

Mechmar MB4000/250

2 Units



BMECH PROJECT EXPERIENCE

LNG Train-9 Project, Bintulu

JGC (M) / Synerlitz (M)

GRE FM 2416 Underground Firewater Piping,
3.6 KM / 11,560 Dia-inch

UPVC Drinking Water Pipe,
2.2 KM / 3,650 Dia-inch

Deoxidized Steel Drain Pipes,
Amine Drain, Sour Service
1,500 Dia-inch





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BMECH PROJECT EXPERIENCE



LNG Train-9 Project, Bintulu

JGC (M) / Nippon Express (NEX) & Muhhibah Steel Industry (MSI)

- 1) Steel Structure Erection for LNG Train9 Project at Bintulu
(500 Tons for pipe rack and equipment structure)
- 2) Manpower Supply to Nippon Steel for Steel Structure Erection at LNG9 Train9 project at Bintulu. (250 workers)



**Muhhibah Steel Industries
Sdn Bhd** (241984-K)



日本通運
NIPPON EXPRESS



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BMECH PROJECT EXPERIENCE



LNG Train-9 Project, Bintulu

JGC (M) / Synerlitz (M)

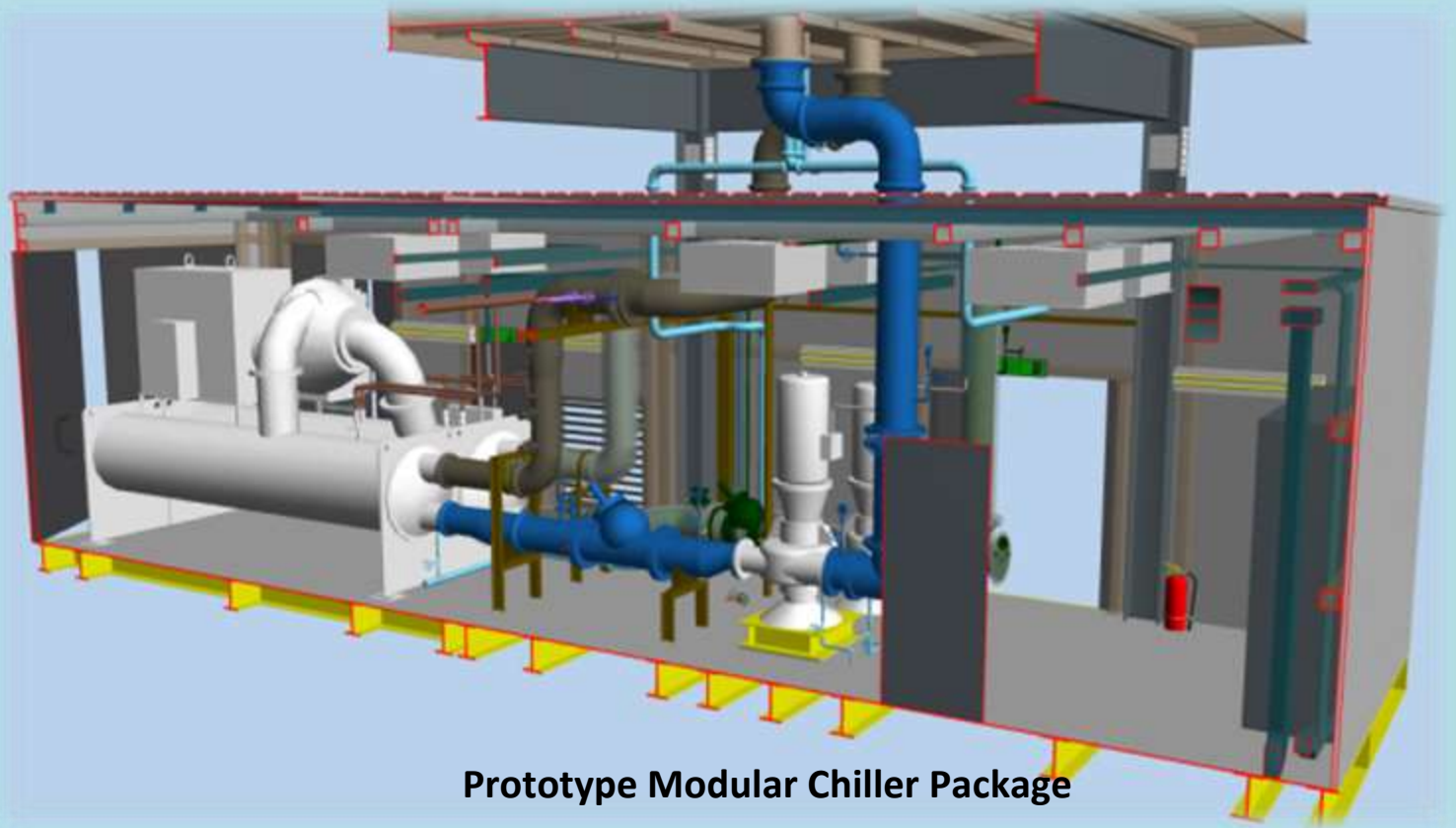
Gas Metering Package

7,150 Dia-inch Piping Erection
Works with PWHT

> 200 nos Bolt Torqueing and
Tensioning up to 36" #900

Application of advance NDT, i.e.
Phase Array Ultrasonic Test
(PAUT) & Time of Flight
Difference (TOFD) UT

BMECH PROJECT EXPERIENCE



Prototype Modular Chiller Package

Shinryo Corporation / Abu Dhabi

1,000RT chiller module complete with Cooling Tower, Pump Skid and Electrical & control Modules.

Completed, shipped to Abu Dhabi, Installed





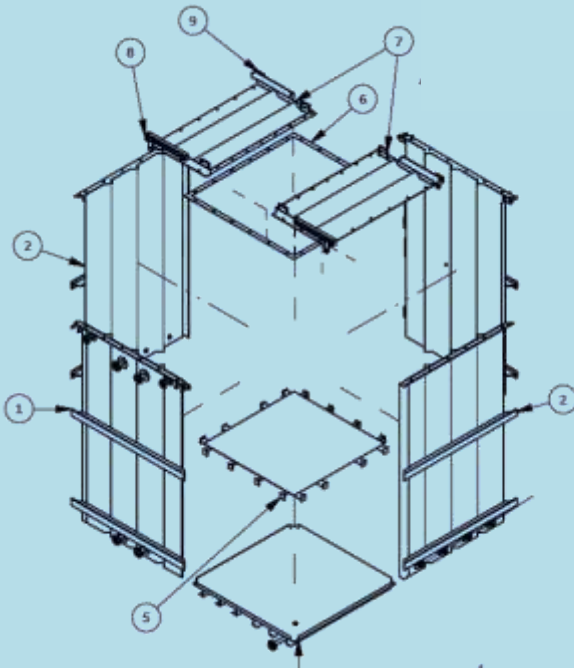
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BMech FABRICATION JOB EXPERIENCE



TOTAL WEIGHT:
1434 KG - SS304 4.5 MM THK
449 KG - S275JR



Molecor Bath Tank

Ricwil (M) Sdn Bhd

Stainless Steel Bath Tank c/w
Safety sliding top hatch





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BMECH PROJECT EXPERIENCE



**DG3 Main Recovery Work,
Samalaju, Bintulu**

Tokuyama (M) Sdn Bhd

EPCC Package

1,150 Dia-inch Piping Erection Works

Oil Free Installation for refrigerant
piping system

Pressure Vessel Installation

Completed





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BMECH PROJECT EXPERIENCE



PS-1 Pump Additional Drain Works

Tokuyama (M) Sdn Bhd

2,100 ID, Plant Shutdown, Piping
Modification Works @ 69 Pump
Locations

Oil Free Installation

Completed





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BMech PROJECT EXPERIENCE



Picture source from <http://www.pjsentral.com/gallery.php>

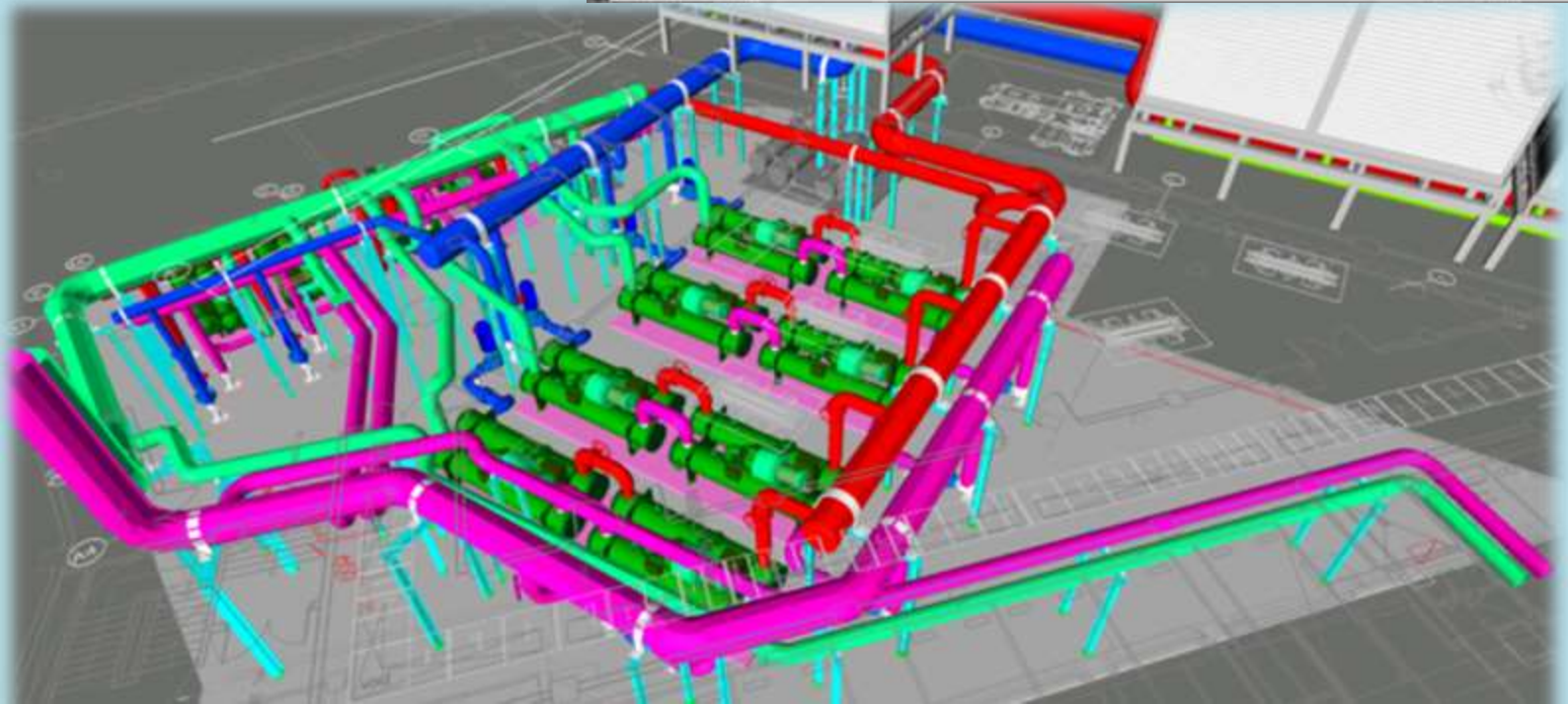
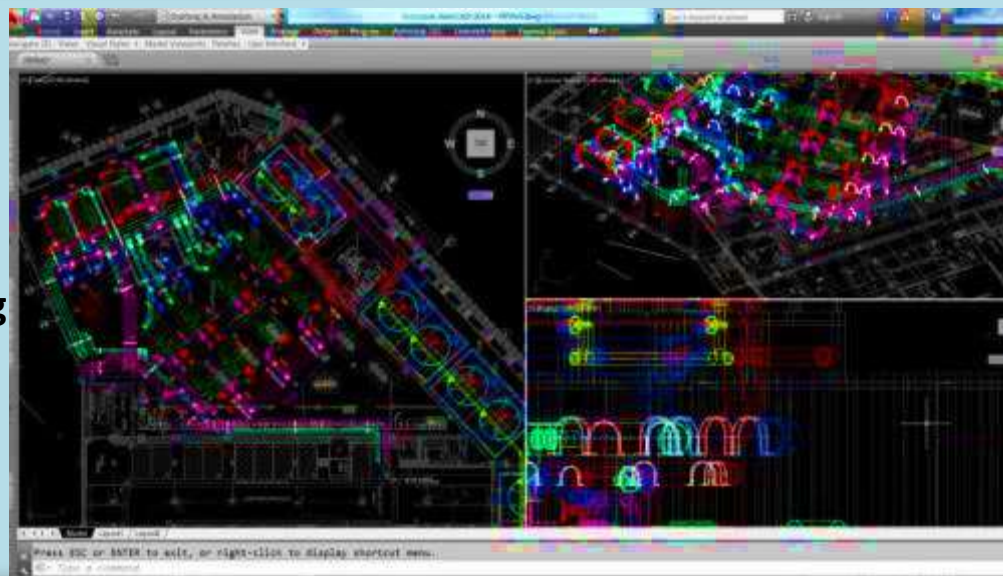
PJ Sentral District Cooling Plant

Megantara Sdn Bhd

Plant Design and Engineering

15,000RT, Refrigeration Ton Cooling
Plant

Completed





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BMECH PROJECT EXPERIENCE



MLNG LNG Tank 7, Bintulu

Tokyo Kanetsu (M) Sdn Bhd

Piping Fabrication and Erection
Works for MLNG New 165,000m³
Liquefied Natural Gas Storage Tank,
T-3607

15,000 ID Piping Fabrication & Erection
Works

Large Bore Stainless Steel Piping 36"

Hydraulic Bolting Works up to 36" #600

**Completed with 2 Million Man-hour
without LTI**





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BMECH PROJECT EXPERIENCE



Murphy Oil Corporation Transfame Sdn Bhd

Desk Extension Structural Fabrication and Piping Fabrication Works for SAPA Water Injection Upgrading

56 Tons Structure Fabrication Works

4,200 ID Piping Fabrication Works

50 Test Package

Completed





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BMECH PROJECT EXPERIENCE



**Replacement of Gas Pipeline No 1,
Kidurong Power Station, Bintulu
Consortium Group Engineers Malaysia –
KSL PD Engineering**

3,800 M Gas Pipeline, API 5L X 52 PSL 2

Completed



BMECH PROJECT EXPERIENCE



OCIM Nitrogen Gas Plant Air Liquide Malaysia Sdn Bhd

Installation of a complete Nitrogen Gas generation plant

Fabrication and Installation of all piping system within the N2 plant, including Cryogenic Pipe

Completed



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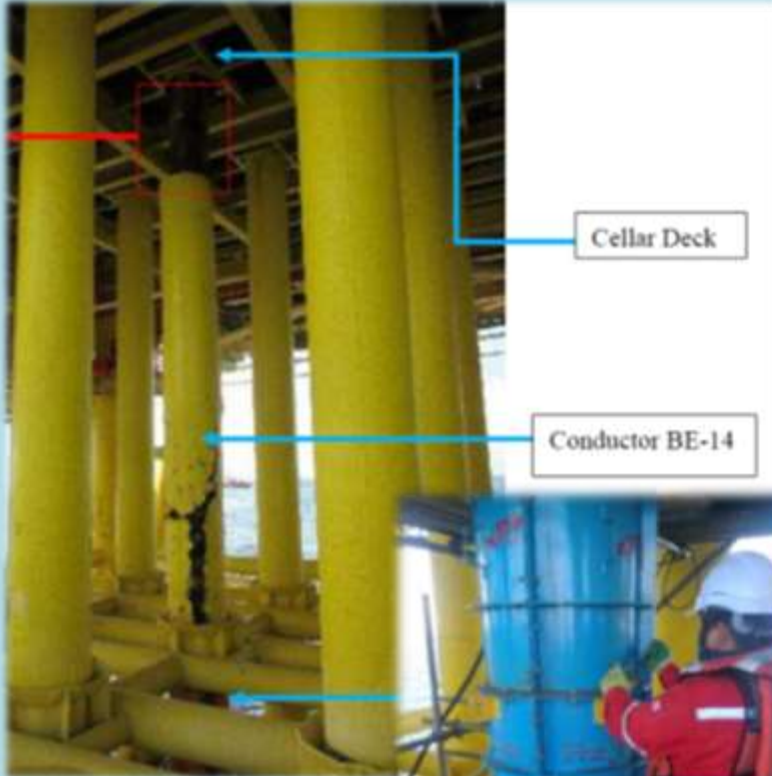
BMECH PROJECT EXPERIENCE



Bintulu Additional Gas Sales Facility (BAGSF) Project



BMECH PROJECT EXPERIENCE



Repair and Grouting of Conductor BE-14



BEDP-A Platform (Betty Field) Tanjung Offshore Services Sdn. Bhd

Repair one of the corroded conductors on
BEDP-A platform

Supply, Fabrication and Installation of all
reinforcement and grout system

Completed



BMECH PROJECT EXPERIENCE



HDPE Water Pipeline Project



Kidurong Power Station, Bintulu Sarawak Energy Bhd

Supply, installation and commissioning
of new water supply pipeline 2,400 m

Mobilization & demobilization of
manpower, equipment and material

Completed

BMECH PROJECT EXPERIENCE



Rewinding Work of Cooling Water Pump Motor



Murum Hydroelectric Plant (HEP) Sarawak Energy Bhd

Servicing, Repair and Rewinding motor
of cooling water pump

Reclamation of Bearing Housing (DE)
and Reclamation of Shaft Housing (DE
& NDE)

Completed





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MAJOR PROJECTS

Item	Project Name	Owner	Scope of Works	Awarded Date
1.	LNG Train-9 Project	PETRONAS LNG Sdn Bhd	JGC Corporation / Synerlitz Fabrication and Installation of Underground Fire Water (GRE) and Drinking Water Piping.	2014
2.	Shelter and Link Ways for MLNG Admin Area	MLNG	Kemudi Harta Sdn Bhd Shelter and Link Way for MLNG Admin Building	2014
3.	LNG Train-9 Project	PETRONAS LNG Sdn Bhd	JGC / Muhibbah Steel Industry Steel Structure Erection for LNG Train9 Project 500 Tons of Pipe Rack & Steel structure	2014
4.	LNG Train-9 Project	PETRONAS LNG Sdn Bhd	JGC / Nippon Express (NEX) Manpower Supply for Steel Structure Erection at LNG Train9 Project. Approx. 150 workers	2014 ~ 2016
5.	PGB Cogen Plant – GPP A&B	Petronas Gas Berhad (GPP A)	Shinryo – Kencana Consortium (SKC) Manpower Supply	2014
6.	AN Tank – Toray Plastic	Toray Plastic (M)	Fabrication and Erection of AN Tank with Dome roof - Manpower supply	2014
7.	JGC LNG Train-9 Project	PETRONAS LNG Sdn. Bhd.	Piping Installation at Gas Metering Station area.	2015
8.	Prototype Module Chiller Skid	Shinryo Corporation (Middle East)	Shinryo Corporation Prototype Module Chiller Skid Fabrication	2015



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9.	Toray, Co-Generation	Toray Plastic Corporation	Shinryo (Malaysia) Sdn Bhd Design, Fabrication & Installation for 2 nos of tank $\varnothing 3.5\text{m} \times 5.5\text{m(H)}$, 60m ³ $\varnothing 4.0\text{m} \times 66.0\text{m(H)}$, 75m ³	2015
10.	DG3 Recovery Main Works at PS2	Tokuyama Malaysia Sdn. Bhd.	EPCC Work for Existing Plant Upgrading of Waste Recovery System	Sep 2015
11.	ABF Cooling Tower Pit-88 Modification Project	Asean Bintulu Fertilizer (ABF)	Kemudi Harta Sdn Bhd Fabrication & Installation for Steel Structure, Piping & Pump Erection Works	Oct 2015
12.	Molecor Bath Tank	Molecor Asia Pacific	CSN Global Sdn Bhd Fabrication of stainless steel bath tank	Jan 2015
13.	MLNG Car Park	MLNG	Kemudi Harta Sdn Bhd Management Car Park Extension	Mar 2016
14.	PS-1 Drain Modification Work for PSD2M	Tokuyama Malaysia Sdn. Bhd.	Shutdown Modification works for Tokuyama Phase 1 Pump Drain line	Mar 2016
15.	MLNG T-3607 Piping Work	MLNG	Toyo Kanetsu Malaysia (TKM) Piping Fabrication and Erection Works for LNG Tank 7, MLNG New 165,000m ³ Liquefied Natural Gas Storage Tank, T-3607	Mar 2016
16.	PGB Cogen Plant – GPP-A (Kerteh)	Petronas Gas Berhad (GPP A)	Shinryo – Kencana Consortium (SKC) Manpower Supply for COGEN Shutdown Works	Mar 2016
17.	Lifting Aid Fabrication – MOPU	Murphy Oil Corporation	Transfame Sdn Bhd Lifting Aid, Blind Flange Fabrication Works for MOPU SATU	Aug 2016
18.	PGB Cogen Plant – GPP-A (Kerteh) GPP-B (Santong)	Petronas Gas Berhad (GPP A B)	Shinryo – Kencana Consortium (SKC) Manpower Supply for COGEN Shutdown Works	Sept 2016



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Item	Project Name	Owner	Scope of Works	Awarded Date
19.	ABF 2016 Pit Stop S/D Works	Asean Bintulu Fertilizer (ABF)	Fumiko Sdn Bhd ABF Pit Stop, Shutdown Hot work for piping and LWRS	Oct 2016
20.	Vestigo – Spool Fabrication	Murphy Oil Corporation	Transfame Sdn Bhd Anjung Kecil Hock Up Improvement Project In-fill , Vestigo	Nov 2016
21.	SAPA-WI Deck extension fabrication	Murphy Oil Corporation	Transfame Sdn Bhd SAPA Water Injection, Platform Structural Fabrication Works, Murphy Oil Corp	Apr 2017
22.	Merdeka PNB118 (KL118) DCS	PNB Berhad	Shinryo (Malaysia) Sdn. Bhd. Supply, Fabricate & Install; Hubless cast iron embedded drain pipe Embedded Pipe Installation	May 2017 Nov 2017
23.	SAPA-WI Pipe Spool Fabrication	Murphy Oil Corporation	Transfame Sdn Bhd SAPA Water Injection, Piping fabrication Works, Murphy Oil Corp	Jun 2017
24.	ABF Staff Car Park	Asean Bintulu Fertilizer (ABF)	Kemudi Harta Sdn Bhd Car Park, Guard House and Contractors' Rest Area Roof Replacement New Car Park Roof	Jun 2017
25.	Kidurong Power Station Gas Pipeline No 1 Replacement	SEB Power Sdn Bhd	Consortium Group Engineer Malaysia – KSL PD Engineering Gas Pipeline No 1 Replacement Works	Sep 2017
26.	ABF E&I Workshop	Asean Bintulu Fertilizer (ABF)	E&I Warehouse Renovation and Extension Works	Nov 2017
27.	Pipe Clamp & Insulation Cold Shoe	OCI(M) Sdn Bhd	KSM Innovation Sdn Bhd Supply of Pipe Clamp, and PU Cold Shoe	Nov 2017



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

Item	Project Name	Owner	Scope of Works	Awarded Date
28.	Bintulu Port, Crane Refurbishment	CMS Cement Sdn Bhd	Tenova Australia Pty Ltd CMS Cement Bintulu Port Loading Crane Refurbishment Works	Dec 2017
29.	MLNG Module 1 & 3	MLNG Petronas	KSL PD Engineering Sdn Bhd Spool Fabrication and Chemical Cleaning for MHI HRSG	Dec 2017
30.	Gas Train Dual Fuel Package Boiler	Borneo Edible Oil	Supply of Gas Train Skid and Regulator Set for Boiler	Feb 2018
31.	Insulation Cold Shoe	OCI(M) Sdn Bhd	KSM Innovation Sdn Bhd Supply of PU Cold Shoe	Mar 2018
32.	Lump Breaker	Asian Bintulu Fertilizer (ABF)	Kemudi Harta Sdn Bhd Fabrication, Supply and Delivery of Lump Breaker for Granulation	June 2018
33.	Maintenance Job	Sakura Ferroalloys Sdn Bhd	Steel Structure Fabrication and Installation Works Structure Modification Works Manpower Supply	2018
34.	Maintenance Job	Elkem Carbon Malaysia Sdn Bhd	Steel Structure Fabrication and Installation Works Structure Modification Works Manpower Supply	2018
35.	Civil Package	OCI(M) Sdn Bhd	Air Liquide Malaysia Sdn Bhd New N2 Plant to Existing OCIM Plant, Samalaju – CSA Construction Scope	Sept 2018
36.	Mechanical Package	OCI(M) Sdn Bhd	Air Liquide Malaysia Sdn Bhd New N2 Plant to Existing OCIM Plant, Samalaju – Mechanical Scope	Oct 2018
37.	ABF Structure Work	Asian Bintulu Fertilizer (ABF)	Kemudi Harta Sdn Bhd Provision of General Exhaust Ventilation (GEV) Structure Replacement Work	Dec 2018
38.	Steps to Perfect Pertama Project	Pertama Ferroalloys	Globe Valve Installation	Jan 2019



BMECH ENGINEERING SDN. BHD.

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Item	Project Name	Owner	Scope of Works	Awarded Date
		Sdn Bhd		
39.	Steps to Perfect Pertama Project	Pertama Ferroalloys Sdn Bhd	Additional Manifolds and Reticulation Installation	Jan 2019
40.	Steps to Perfect Pertama Project	Pertama Ferroalloys Sdn Bhd	Day Bin Weigh Flash Support	Feb 2019
41.	MPA Cooling Water System	Malaysian Phosphate Additives (S) Sdn. Bhd.	Design, Supply, Fabrication, Installation, Testing & Commissioning of Air Fan Cooling Type Cooling Water Station with Maximum Capacity of 2539 m3/Hr	Mar 2019
42.	Steps to Perfect Pertama Project	Pertama Ferroalloys Sdn Bhd	Pneumatic Transfer Line FeSi	Apr 2019
43.	Steps to Perfect Pertama Project	Pertama Ferroalloys Sdn Bhd	Fabricate, Supply and Install Hydraulic Piping	Apr 2019
44.	BAGSF Project	Petronas	Bintulu Additional Gas Sales Facility (BAGSF) Project	Jun 2019
45.	Steps to Perfect Pertama Project	Pertama Ferroalloys Sdn Bhd	FeSi Off Gas Water Cooled Ducting	Oct 2019
46.	Repair and Grouting at Offshore platform	Petronas Carigali	Tanjung Offshore Services Sdn. Bhd. Repair and grouting of corroded conductor BE-14 on BEDP-A Platform	May 2020
47.	Façade for Landmark Location	JKR Sarawak	BBR Construction Systems Sdn Bhd External Façade for Bintangor Bridge, Kuching	Jun 2020
48.	Repair and Grouting at Offshore platform	Petronas Carigali	Tanjung Offshore Services Sdn. Bhd. Repair and grouting of corroded conductor TK-35 on TKJT-C Platform	Aug 2020
49.	EPCC of Diesel Storage Tank	MPAS Sdn Bhd	Design and Build of the Diesel Storage Tank System	Sep 2020



BMECH ENGINEERING SDN. BHD.

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Item	Project Name	Owner	Scope of Works	Awarded Date
50.	SEB Laku Pipeline	Sarawak Energy Berhad (SEB)	Installation of new water supply pipeline	Apr 2021
51.	SiMn Electrode Casing	Pertama Ferroalloys Sdn Bhd (PFSB)	Supply, Fabricate and Installation of SiMn Electrode Casing	May 2021 – Dec 2024
52.	Manpower Supply	Malaysian Phosphate Additives (MPA)	MPA Manpower Supply	Aug 2021
53.	Supply and Fabricate Piping Support - Murum	Sarawak Energy Berhad (SEB)	Fabrication, Supply and Delivery of Firefighting Support Brackets for Murum HEP	Aug 2021
54.	Repair Work Fire Fighting Pipeline	Sarawak Energy Berhad (SEB)	Repair Work on Murum HEP Fire Fighting System Pipeline	July 2021
55.	Rewinding Cooling Water Pump	Sarawak Energy Berhad (SEB)	Rewinding Work of Cooling Water Pump Motor for Murum HEP	Aug 2021
56.	Manpower Supply – Long Term	Pertama Ferroalloys Sdn Bhd (PFSB)	Pertama Annual Manpower Supply for Long Term (Nov 2020-Nov 2021)	Aug 2021-Aug 2022
57.	Aboveground Mainline for Fire Hydrant	Pertama Ferroalloys Sdn Bhd (PFSB)	Supply, Deliver, Installation & Commissioning of Aboveground Fire Main Pipeline	Feb 2022-Oct 2022
58.	Steel Storage tank	Petronas Carigali	Fabrication & Installation Fire Water Tank and Portable Tank	Aug 2022-May 2023



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

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ENGINEERING PROJECTS

	Project	Description	Client	Year
1.	Relocation & upgrading of KLCC District Cooling centre	Pipe stress analysis & water hammer analysis for chilled water piping and condenser water piping	IAQ Solutions Sdn. Bhd.	2014
2.	Boiler Plant for R1 Project, Tg. Langsat.	3D plant design and piping engineering for boiler plant piping	Mackenzie Industries Sdn. Bhd.	2014
3.	Relocation & upgrading of KLCC district cooling centre – external piping	Pipe stress analysis for external chilled water pipe buried section	JW Global Sdn. Bhd.	2014
4.	UTP District Cooling Plant	Pipe stress analysis for UTP District Cooling Plant External Piping (New Section)	Pathfinder M&E Sdn. Bhd.	2014
5.	Emery Oleochemicals (M) Sdn. Bhd. Boiler piping	Pipe stress analysis and isometrics preparation for steam and condensate piping	Mackenzie Industries Sdn. Bhd.	2014
6.	Independent Deepwater Petroleum Terminal at Pengerang – hot oil piping	Pipe stress analysis for hot oil piping	Oiltek Sdn. Bhd.	2014
7.	Singapore Mediapolis District Cooling Chilled Water Network Piping	Pipe stress analysis for external chilled water pipe buried section	HSC Pipeline Engineering Sdn. Bhd.	2014
8.	Kemaman Bitumen Company (KBC) New Boiler Plant	Design and engineering of complete boiler plant piping, including pipe stress analysis, drawings preparation, isometrics preparation	Mackenzie Industries Sdn. Bhd.	2015
9.	Petronas Lubricants International Sdn. Bhd. – EPCC of 22 Storage Tanks at MLBP	Hydraulic analysis of lube oil piping	Handal Engineering Sdn. Bhd.	2015
10.	Pagoh District Cooling Plant	Pipe stress analysis and support structure design for chilled water and condenser water piping.	IAQ Solutions Sdn. Bhd.	2015



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	Project	Description	Client	Year
11.	PJ Sentral DCS Plant	Design and engineering of complete piping system for PJ Sentral District Cooling Plant, including pipe stress analysis, hydraulic analysis, layout preparation, piping isometrics preparation	Megatara Sdn. Bhd.	2016
12.	Flexsys Chemicals Boiler Plant	Pipe stress analysis for natural gas train	Mackenzie Industries Sdn. Bhd.	2016
13.	Ta Chang Biomass Power Plant	Design and engineering of complete piping system for biomass power plant, including pipe stress analysis, hydraulic analysis, layout preparation, piping isometrics preparation	Boilermech Sdn. Bhd.	2016
14.	Steam Piping For New Biodiesel Plant	Steam piping stress analysis for new biodiesel plant	Boilermech Sdn. Bhd.	2016
15.	MSM Sugar refinery (Johor)	Design and engineering of complete piping system for boiler plant, including pipe stress analysis, hydraulic analysis, layout preparation, piping isometrics preparation	Boilermech Sdn. Bhd.	2016
16.	70,000LB Package Boiler, Tosoh, Telok Kalong	Design and engineering of complete piping system for boiler plant, including pipe stress analysis, hydraulic analysis and piping isometrics preparation	Profmech Engineering Sdn Bhd. / Mechmar Cochran Boilers (M) Sdn Bhd	2016
17.	MCJ Piping Replacement	Provision of Engineering for Piping Replacement at Marine Craft Jetty (MCJ)	Handal Engineering Sdn. Bhd.	2017
18.	Thermal Oil Heater Plant for PDT2 – Pengerang Deepwater Terminal 2 @ Johor Darul Ta'zim	Design and engineering of complete piping system for thermal oil heater plant, including pipe stress analysis, hydraulic analysis, layout preparation, piping isometrics preparation	Pacific Central Teknik PTE Ltd	2017
19.	Proposal for Piping Stress Analysis	To conduct pipe stress analysis specifically for blast load for existing offshore piping, in order to ensure piping integrity and to propose suitable pipe support to mitigate blast effect	Petra Bhd	2018

APPENDIX

Company Registration

 SURUHANJAYA SYARIKAT MALAYSIA COMPANIES COMMISSION OF MALAYSIA		
BORANG 9 AKTA SYARIKAT 1965 [Seksyen 16(4)]		
No. Syarikat – MyCoID		
1105263	T	
PERAKUAN PEMERBADANAN SYARIKAT SENDIRIAN		
Dengan ini diperakui bahawa		
BMECH ENGINEERING SDN. BHD.		
telah diperbadankan di bawah Akta Syarikat 1965, pada dan mulai dari 18 haribulan Ogos 2014, 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 Kuching pada 18 haribulan Ogos 2014		
		 DATO' MOHD NAIM DARUWISH PENDAFTAR SYARIKAT MALAYSIA
UserID : ronatkison Date : 18/08/2014 03:37:05 PM		
NO. SIRI: SSM 5489585		

APPENDIX

JKKP Certificate



JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN MALAYSIA

Sijil Pendaftaran Firma Yang Kompeten (Kontraktor Petroleum)

Adalah Dengan Ini:

BMECH ENGINEERING SDN BHD

Didaftarkan sebagai Firma Yang Kompeten (Kontraktor Petroleum).
Pendaftaran ini adalah tertakluk kepada syarat-syarat kelulusan yang telah
ditetapkan.

Alamat Berdaftar:

Sublot No 1 & 2, Lot 256, Block 32, Kemena Land District, Jalan Sungai Sibiyu,
97000 Bintulu,
Sarawak, Malaysia.
(No. Pendaftaran Tempat Kerja: SW/21/01/172227)

SKOP	:	KPD 01, KPD 02
NO. PENDAFTARAN	:	JKKP/2022/26/89
TEMPOH KELULUSAN	:	27/05/2022 HINGGA 26/05/2025



t.t
IR. MOHD ROSDEE BIN YAACOB
PENGARAH
BAHAGIAN KESELAMATAN PETROLEUM
JABATAN KESELAMATAN DAN KESIHATAN PEKERJAAN
MALAYSIA

No. Rujukan	:	HQ/26-01/2022/00009
Tarikh	:	27/05/2022

(Sijil ini adalah cetakan komputer dan tandatangan tidak diperlukan)

APPENDIX

CIDB Certificate



PERAKUAN PENDAFTARAN

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

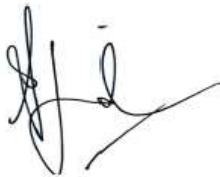
No. Pendaftaran : 0120150410-SR162635
Nama Kontraktor : BMECH ENGINEERING SDN. BHD.
Alamat Berdaftar : LOT 675, 2 1/2 MILE, BINTULU LIGHT INDUSTRIAL ESTATE,
97000 BINTULU
SARAWAK
Daerah : BINTULU
Tarikh Mula Berdaftar : 10/04/2015

<u>GRED</u>	<u>KATEGORI</u>	<u>PENGKHUSUSAN</u>
G7	B	B04
G7	CE	CE21
G7	ME	M15

Tarikh Mula Berkuatkuasa : 01/03/2021

Tarikh Habis Tempoh Perakuan : 09/04/2024

STATUS: AKTIF



Ketua Eksekutif
Lembaga Pembangunan Industri Pembinaan Malaysia
Tarikh: 01/03/2021



APPENDIX

Score Certificate



Certificate of Achievement

This is to Certify that

BMECH ENGINEERING SDN. BHD.

0120150410-SR162635

Grade Registered : G7

has been evaluated according to the SCORE criterias set by the Board and
has achieved the rating of



(3 Star)

for the year

2020

(Valid until 23/11/2022)

Good management and technical capabilities, compliance to best practices and good project management.



Ketua Eksekutif

Lembaga Pembangunan Industri Pembinaan Malaysia

24/11/2020



SC050475

APPENDIX

ISO 9001:2005 Certificate



CERTIFICATE

This is to certify that

BMech Engineering Sdn. Bhd.
Sublot No 1 & 2, Lot 256, Block 32, Kemena Land District, Jalan Sungai Sibiyyu, 97000
Bintulu, Sarawak, Malaysia.

has been assessed and complying with

ISO9001:2015 Quality Management System

The management system associated to the following scope:

**Provision of Engineering, Procurement, Construction and
Commissioning (EPCC) Related Activities**

Issued Certificate Date : 11th December 2022
Certified Since : 11th December 2022
Certificate Start Date : 11th December 2022
Expiry Date : 10th December 2025
Certificate No : MYQ2008132
Industry/EA Code : 28.43.22
Issued Information : Original, Rev-00

The validity of the certificate can be verified by the following website: www.unicert.co.uk


.....
Abdul Kader
Director of UNICERT



IAS
INTERNATIONAL
ACCREDITATION
SERVICE
MSCB 142



IAF
INTERNATIONAL
ACCREDITATION
FORUM
MSCB 142



STANDARDS
MALAYSIA
CERTIFICATION
MSCB 142



UNICERT
CERTIFICATION
MSCB 142

The certificate will remain current subject to the organization maintaining its system to the required standard(s). This will be monitored regularly by United Certification Services Sdn. Bhd. (UNICERT) Malaysia office: Tower A-80-S, Menara UOA, Bangsar, No 5, Jalan Bangsar Utama 1, 59000, Kuala Lumpur, Malaysia. Certificate does not assure the quality of the products. It's produced a management system in the organization. This certificate is the property of UNICERT, and to be returned upon request. This certificate will be invalid if annual surveillance audit is not completed. To know more information please contact by email: info@unicert.co.uk

Page 1 of 1





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

APPENDIX

UPKJ Certificate

TIDAK BOLEH DIPINDAH MILIK



Pejabat Setiausaha Kewangan Negeri Sarawak
Unit Pendaftaran Kontraktor Dan Juruperunding

NO SIJIL : UPKJ/M/000017

Dengan ini diperakui bahawa syarikat seperti butir-butir berikut adalah berdaftar dengan Pejabat ini dalam bidang MEKANIKAL

Syarikat	:	BMECH ENGINEERING SDN BHD
No. Pendaftaran	:	1105263-T
Alamat Berdaftar	:	Lot 675, 2-1/2 Mile, , Bintulu Light Industrial Estate, 97000 Bintulu, Sarawak

Klasifikasi Pendaftaran

Kategori

A

Kepala

V

Sub-Kepala

g

Setiausaha Kewangan Negeri
Sarawak

Tarikh Luput Pendaftaran
24-02-2024



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

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APPENDIX

PETROS's VENDOR REGISTRATION CERTIFICATE

CERTIFICATE


PETROLEUM SARAWAK BERHAD
Registration No.: 201701025772 (1239938-U)
(Incorporated in Malaysia)

VENDOR REGISTRATION CERTIFICATE

REGISTRATION REFERENCE NO : P220137 - S

BMECH ENGINEERING SDN BHD (1105263-T)
LOT 675, 2-2/2 MILE, BINTULU LIGHT INDUSTRIAL ESTATE, 97000

REGISTRATION VALIDITY : 06 DEC 2022 to 05 DEC 2025

It is hereby acknowledged that the Vendor set out above have been registered with Petroleum Sarawak Berhad and its Related Corporations, including but not limited to, Petroleum Sarawak Exploration & Production Sdn. Bhd., Petroleum Sarawak Gas Sdn. Bhd., PETROS Niaga Sdn. Bhd., Sarawak Gas Distribution Sdn. Bhd. (collectively referred to as "PETROS Group"), and are eligible to participate in quotation / tender offers by PETROS Group under the following categories:

Registration Category	: Services
Description	: ST1 - Tanks/Tank Farms, Storage Handling
Registration Category	: Services
Description	: SP1 - Pipeline & Associated Services
Registration Category	: Services
Description	: SO2 - Offshore & Onshore Facilities Construction & Installation
Registration Category	: Services
Description	: SM4 - Mechanical Engineering & Maintenance
Registration Category	: Services
Description	: SC2 - Civil, Structural, Scaffolding & Building Maintenance

**This is a Computer-Generated Printout
No Signature from PETROS is Required**

**Petroleum Sarawak Berhad
and Group of Companies**

Issued Date 09 December 2022





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

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97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

APPENDIX

PROJECT PARTNER



KSL PD ENGINEERING SDN BHD

[199801002114(458240-X)]

No. 8 Taman Puteri, Jalan By-pass, 71000 Port Dickson,
Negeri Sembilan Darul Khusus, Malaysia.

Tel: 606-6479999, 6471494

Fax: 606-6475486

Email : kslsb@kslsb.com.my



Com. No. : KSL PD1120N

March 06, 2020

BMECH ENGINEERING SDN. BHD.

Lot 604, Block 20,
Kidurong Industrial Area,
9700 Bintulu, Sarawak

(Attn: Mr. Voon Pei Liang)

Dear Sir,



RE: TECHNICAL AND CORPORATION IN ENGINEERING, FABRICATION & INSTALLATION WORK

We, **KSL PD ENGINEERING SDN. BHD. (KSL)** being a specialist engineering contractor with extensive experience in the above-mentioned subject, hereby agrees to corporate with **BMECH ENGINEERING SDN. BHD. (BMECH)** to pursue some specific collaborated projects.

KSL and **BMECH** are committed into endeavour to jointly develop a core competency, consist of a group of highly skilled professionals to expand our capabilities and capacities in the mentioned field and its related works.

Thank you.

Yours faithfully,
for **KSL PD ENGINEERING SDN BHD**



SIA CHONG PENG
DIRECTOR



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

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APPENDIX

PROJECT PARTNER



PIONEER HEAT TREATMENT SDN. BHD.

(444494-M)

89-B-1, Lorong Haruan 5/4, Oakland Commerce Square, 70300 Seremban N.S.
Tel: +60(6)-633 6226 494, Fax: +60(6)-469 2060

March 10, 2020

BMECH ENGINEERING SDN. BHD.

Lot 604, Block 20,
Kidurong Industrial Area,
9700 Bintulu, Sarawak

(Attn: Mr. Voon Pei Liang)

Dear Sir,

RE: TECHNICAL AND CORPORATION IN ENGINEERING, PREHEAT TREATMENT & POST-HEAT TREATMENT

We, **PIONEER HEAT TREATMENT SDN. BHD. (PHT)** being a specialist engineering, preheat treatment & post-heat treatment contractor with extensive experience in the above-mentioned subject, hereby agrees to corporate with **BMECH ENGINEERING SDN. BHD. (BMECH)** to pursue and collaborated on specific projects.

PHT and **BMECH** are committed into endeavour to jointly develop a core competency, consist of a group of highly skilled professionals to expand our capabilities and capacities in the mentioned field and its related works.

Thank you.

Yours faithfully,
for **PIONEER HEAT TREATMENT SDN. BHD.**



KEN WONG
DIRECTOR

APPENDIX

THE PROJECT - Replacement of Gas Pipeline No 1, Kidurong Power Station, Bintulu

Sarawak Energy (SEB) proposes to construct a replacement Gas Pipeline which replaces the existing Gas Pipeline No. 1 to supply gas for the Tanjung Kidurong Power Plant. The existing Gas Pipeline No. 1 in Tanjung Kidurong Power plant, Bintulu, is a 10-inch diameter gas pipeline (with Schedule 40 specification) and it has already been in service for 25 years (30 years is the design life span). This will be upgraded and replaced with a 12-inch diameter gas pipeline in order to be able to deliver supply gas to the existing CCGT Block (Units 7, 8 and 9) as well as the new proposed CCGT Block (Units 10 and 11). Moreover, the new gas pipeline would serve as a back-up so that each pipeline could undergo the mandatory integrity test required by DOSH.





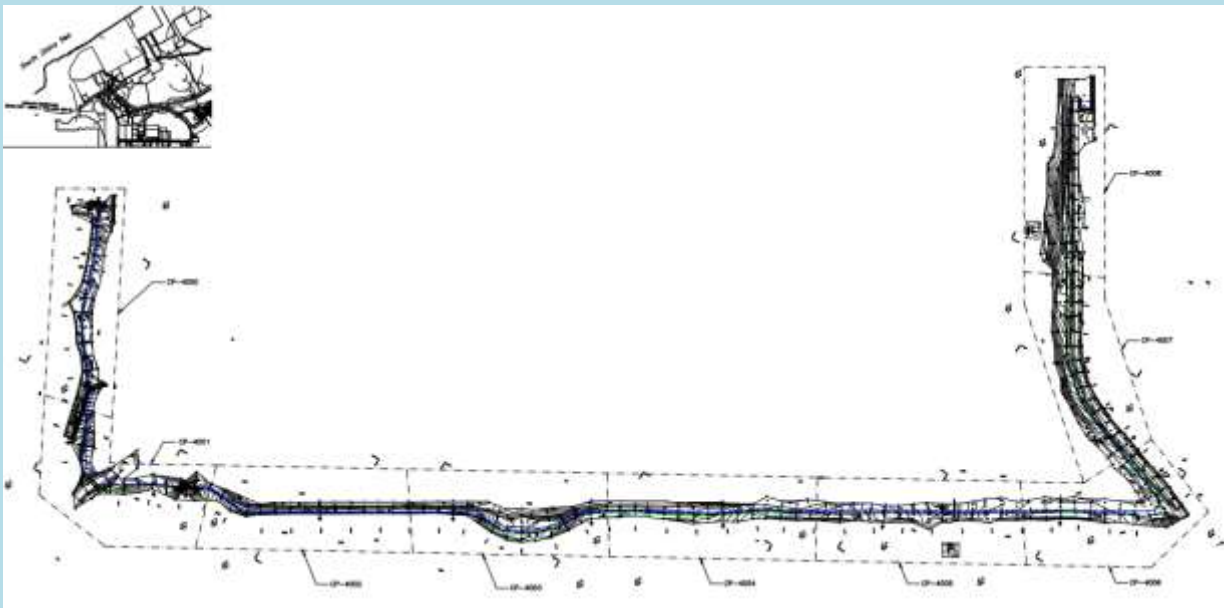
BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

THE PROJECT - Replacement of Gas Pipeline No 1, Kidurong Power Station, Bintulu





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

THE PROJECT - Replacement of Gas Pipeline No 1, Kidurong Power Station, Bintulu





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

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97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

ASSOCIATED COMPANY

UHPC ENGINEERING PTE LTD



Date: 26 May 2020

Our Ref: UENG-A2001-CEA-01 Rev00

To: BMECH Engineering Sdn Bhd
Lot 604, Block 20,
Kidurong Industrial Area,
9700 Bintulu, Sarawak
Attn: Mr Victor Voon Pei Liang

Dear Sir,

Technical Support and Corporation for Offshore Structures Engineering Analysis and Design

We, **UHPC Engineering Pte Ltd** (herein "UENG"), being a specialist engineering consultant with extensive experience in offshore structure engineering analysis and design of repair and strengthening for jacket platforms, wells and jetties, hereby agree to corporate with **BMECH Engineering Sdn Bhd** (herein "BMECH") to pursue upcoming projects in Sarawak.

UENG and **BMECH** are committed into endeavour to jointly develop a core competency, consist of a group of highly skilled professionals to expand our capabilities and capacities in the mentioned field and its related works.

Thank you.

Yours Sincerely,
For UHPC Engineering Pte Ltd


Edgar Lim
Director



Services and Products

We develop Ultra High-Performance Concrete (UHPC) for practical applications and supported by strong engineering to design structural components. Our applications are certifiable to international design codes and building control authorities. These are being used in onshore infrastructures as well as offshore jackets in oil and gas industry worldwide.

Our ultra high-performance concrete are our own proprietary mix design. We tailor our concrete properties to meet project requirements. To do these, our engineers are well verse with latest design codes and standards, and advanced analysis to optimize the application.

For Onshore infrastructures, we focus on:

- Engineering design of iconic structures requiring fine and slim integrated members with surface texture and colour to match architectural theme. Fabrication of these precast products using TN-grouts, delivery and installation on site.
- Grouting of structural joints for pre-cast modules.
- Structural wall claddings, façade, gratings and semi-rigid road pavements.

For Offshore works, UHPC focus on advanced analysis to optimize design of offshore structures for service life extension, repair and strengthening using various international design codes such as API, Norsok, ISO, EC, DNV..etc. Engineers perform spectrum fatigue analysis, time domain dynamic analysis, pushover analysis and finite element simulation to derive precise and efficient solutions. Our strengthening method have been reviewed and approved by independent authorizes DNVGL, ABS and BV across various countries. In addition, we use our TN- lightweight grout for floating platforms and barges.

Services and Products

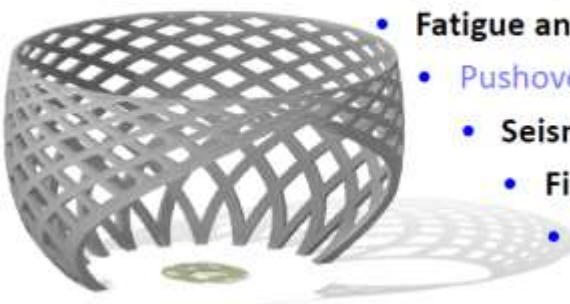
Our engineers have more than 50 man-years of offshore experiences:

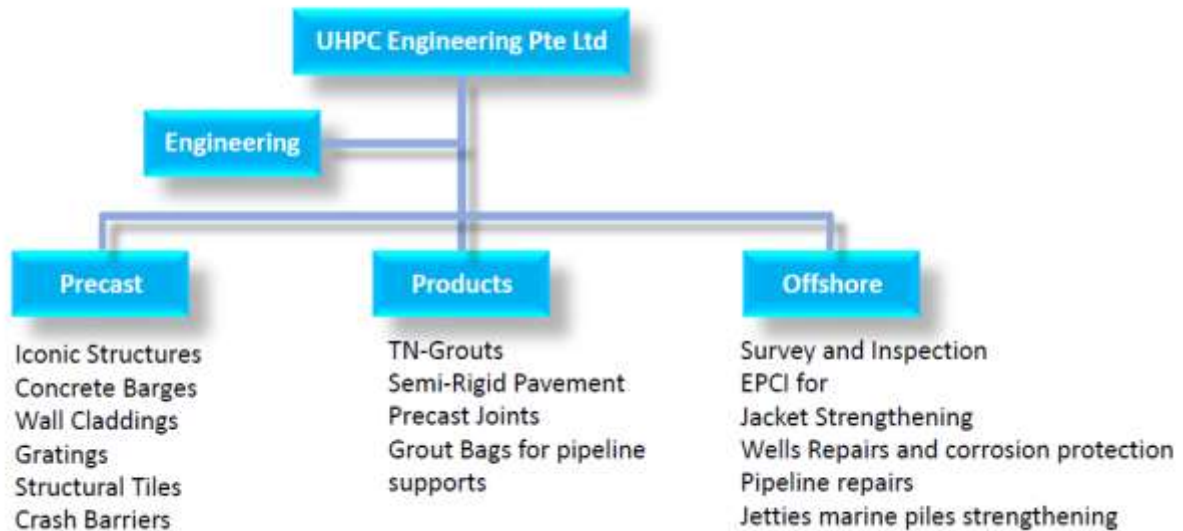
- designed > **10** offshore platforms,
- strengthened > **50** platforms using grouted solutions,
- reinstated > **30** heavily corroded well conductors, casings,
- repaired > **4** jetties and associated breasting dolphins, and
- designed **3** concrete barges

in Turkey, UAE, Qatar, Saudi Arabia, Mexico, Australia, India, Indonesia, Vietnam, Myanmar, Malaysia.

Design capabilities include:

- Inplace analysis/Pre-service analysis
- Fatigue analysis,
- Pushover analysis,
- Seismic analysis,
- Finite Element analysis,
- Hydrodynamic analysis,
- Hydroelastic analysis.





Key Staff

Dr Kyaw Myint Lay: Head of Engineering
Dr Wah Yi Feng: Principal Engineer
Mr Phyo Khant: Materials experts
Mr Edgar Lim: Structural Design

Management

Mr Edgar Lim: Director and founder
Dr Ng Yiaow Heong: Director
Dr Kyaw Myint Lay

UHPC Engineering is international recognized for our unique applications of UHPC materials in repair and strengthening of offshore jackets.

We have worked with Saipem A.S., DOGUS A.S., Shell, ConocoPhillips, Petronas, Pertamina, COOEC, DNVGL, etc.

Our scope of work includes pre-inspection structural analysis for planning of detail inspection, as-is and strengthened analyses, recommendation for service life extension, detail engineering design of strengthening method, if required and supervision of repair method, if required.

Interaction with Classification Society/authority for approval of remedial methods.

For strengthening using grout infill and grouted clamps, we are able to formulate proprietary grout system to meet the design required and supervise the installation on site.

- Repair of Damaged Jacket Legs/ Bracings due to corrosion or Accidental Impact using split sleeve grouted clamps or Member/Leg infilling with High Strength cementitious grout.
- Pile Strengthening / Repair of Old Jetties, Mooring Dolphins, Berthing Dolphins.
- Repair of Corroded Wells, Strengthening of Well for workover, Conductor strengthening.
- Corrosion Protection of Well Conductors and Marine Piles
- Reinstatement of collapsed members.
- Repair of corroded Pipeline supports in live plants without plant shutdown.
- Use proprietary UHPC Ultra-High Strength Cementitious Grout in Grouted Clamps or infilled members to strengthen and repair damaged steel members.

Strengthening of Subsea Piled Foundation

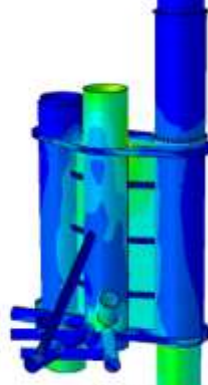
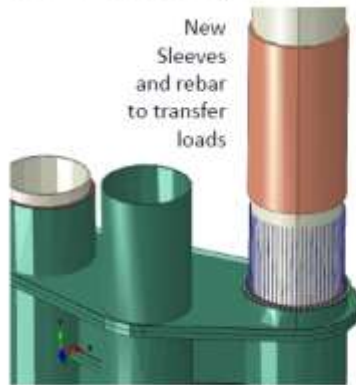
Pile Refusal during driving, water depth -70m.
Shear keys on the skirt piles were not embedded into the sleeves.

UHPC solution: To extend the sleeve underwater to engage the shear keys with additional rebar for load transfer across bolted connection and grouted.

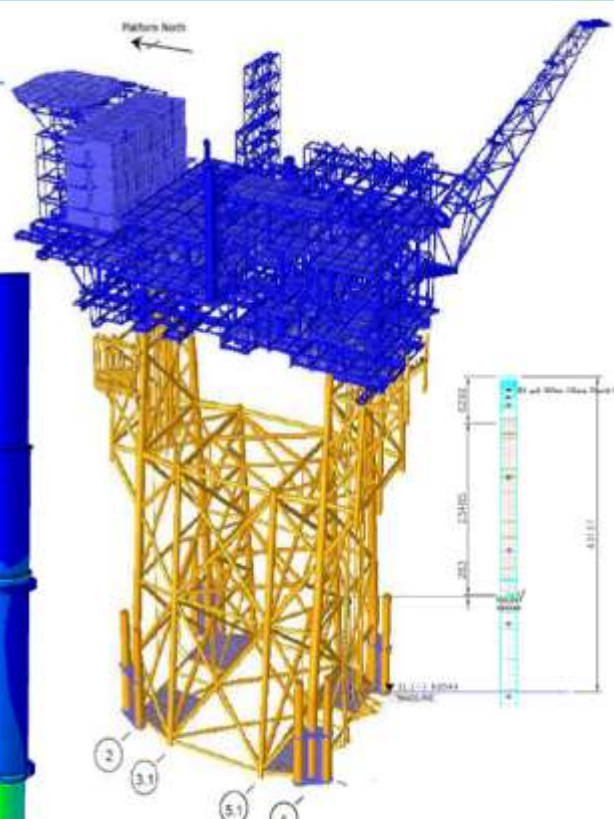
Design accepted by Petronas

Execution will be in April 2020.

Client: MMHE, Malaysia



Abaqus/Standard 3DEXPERIENCE R2019s



Re-engineering of 22 free standing columns 36m height considering composite action of encased concrete to reduce steel requirement to S355 from S460, as specified.

Design using new code provision BC4:2015

Execution: on-going.

Client: Dragages Singapore

Design Code for Permanent Structure, Construction Stages & Temporary Work

BS EN1993-1

BS EN1994-1

BC4:2015

Elevation View L17-20



Track Records

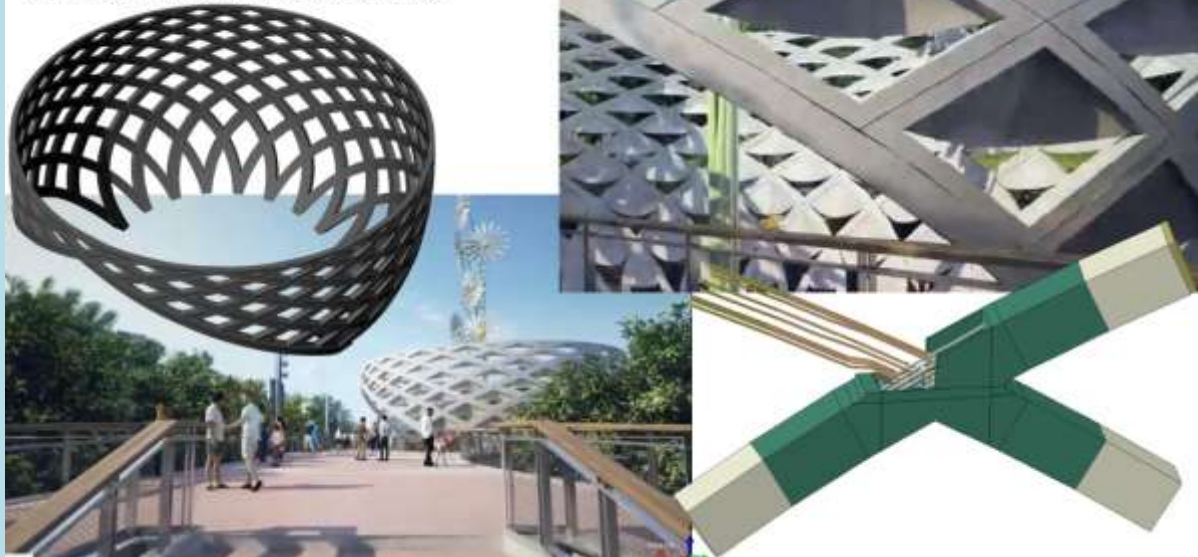
Iconic structures, redesigned using high-strength concrete mix to reduce weight and achieve surface texture and colour.

Each precast modules is reduced to 2tons weight, instead of 4tons as specified.

Due to slim members, connection anchorage is reduced to 11x diameter of rebar.

Execution: on-going, erection Jan 2021

Client: Gammon Construction, Singapore



Track Records

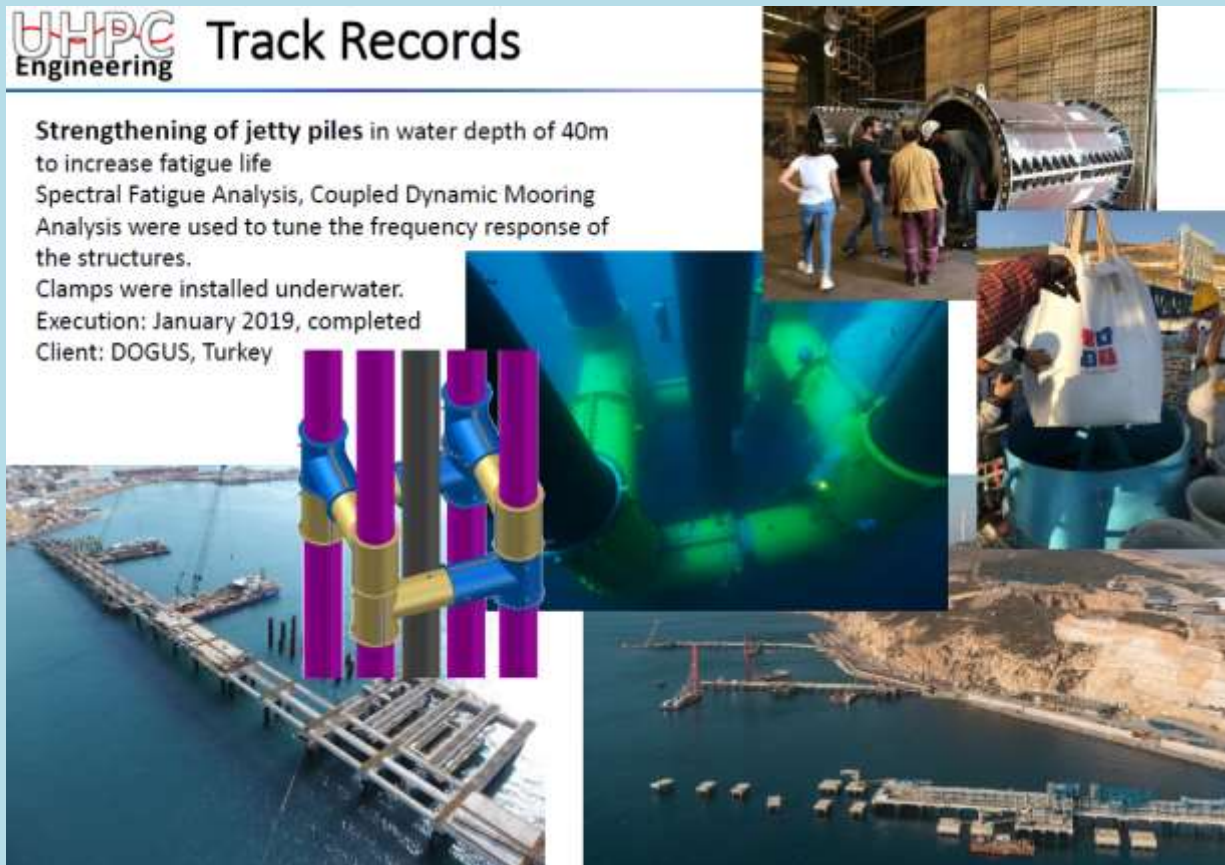
Strengthening of jetty piles in water depth of 40m to increase fatigue life

Spectral Fatigue Analysis, Coupled Dynamic Mooring Analysis were used to tune the frequency response of the structures.

Clamps were installed underwater.

Execution: January 2019, completed

Client: DOGUS, Turkey





Track Records

Jetty Pile repairs in remote areas, with strict requirement to prohibit water pollution due to marine life.

Working from above water, with self-extracting grout moulds to -2m below mudline in water depth of 3m.

Execution: May 2019

Client: ConocoPhillips, Indonesia



Jetty piles encased with UHPC grout down to -2m below riverbed. Installed without divers.



Track Records

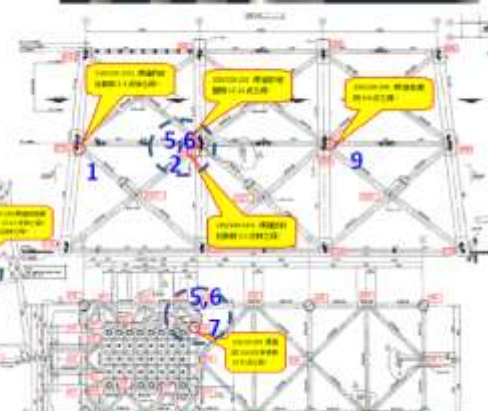
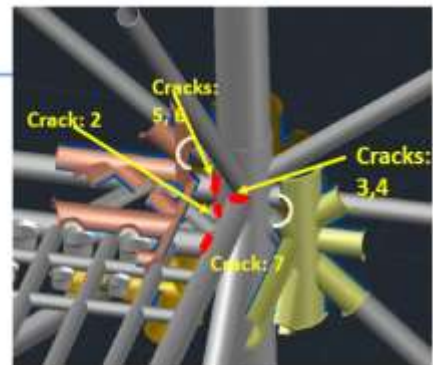
Repair and Strengthening of cracks underwater in horizontal framing and conductor guides.

Damaged was analyzed to be caused by vertical acceleration of wave loads acting on the framing at EL-8m underwater.

UHPC grouted clamps were recommended to avoid expensive subsea welding in habitat.

Client: COOEC

Execution: July 2020, engineering completed October 2019

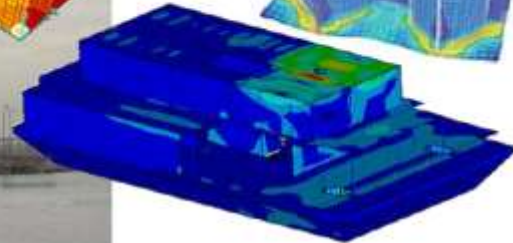
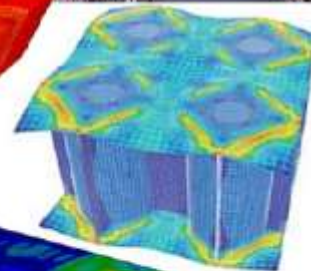
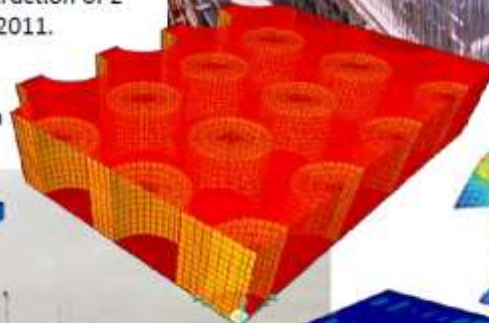
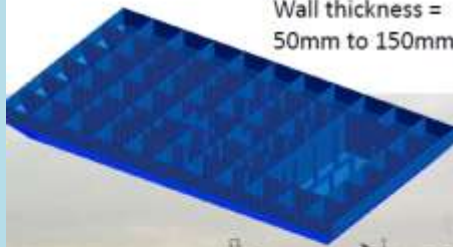


Cracks and flooded members reported.

Floating Concrete Modules

Hull of concrete floating modules are ideal to be constructed of ultra high performance lightweight concrete of density 1,400kg/m³ and strength no less than 60MPa. The high tensile strength and elastic modulus permits the membrane to be post-tensioned to a higher degree, therefore reducing displacement. Engineers designed and involves in construction of 2 floating observatory stations in Qatar in 2011.

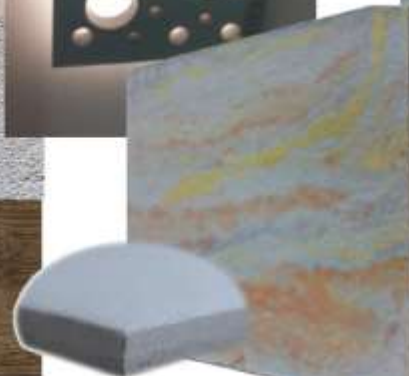
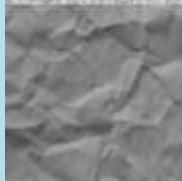
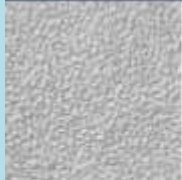
Wall thickness =
50mm to 150mm



UHPC Light-weight Facade

Lightweight UHPC façade permits very thin sections to be produced, less than 40mm with murals and embossment. The façade are manufactured with high strength concrete for durable, low thermal conductivity, aesthetic and cost-effective applications:

- Low Thermal Conductivity (0.4 W/m²), 80% less than normal concrete





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

CONSULTING PARTNER



BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

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Office: +60(86) 317 756, Mobile: +60(13) 802 4889

ASTAKA CONSULTING ENGINEERS SDN. BHD.



ASTAKA CONSULTING ENGINEERS SDN. BHD.

(1138325-D)

1st Floor, Lot 3211-15, Vantage Business Service PLT, Block 10, K.C.L.D Green
Road, 93150 Kuching, Sarawak, Malaysia

Tel: +60(82)-752 873 Fax: +60(82)-752 873

28th March 2021

BMECH ENGINEERING SDN. BHD.

No.48 (Lot 2622),
2nd Floor, Kidurong Gateway Business Park,
Block 20, Kemena Land District,
97000 Bintulu,
Sarawak
(Attn: Mr. Voon Pei Liang)

Dear Sir,

RE: COLLABORATION IN ENGINEERING AND CONSULTING

We, **ASTAKA CONSULTING ENGINEERS SDN. BHD. (ACE)** being a specialist engineering consultant with extensive experience in the above-mentioned subject, hereby agrees to cooperate with **BMECH ENGINEERING SDN. BHD. (BMECH)** to pursue to specific projects.

ACE and **BMECH** are committed and endeavour to jointly develop a core competency, consisting of a group of highly skilled professionals to expand our capabilities and capacities in the mentioned field and its related works.

Thank you.

Yours faithfully,
for **ASTAKA CONSULTING ENGINEERS SDN. BHD**


Ir. Jame Ibrahim
PBB Sarawak, PE Eng, B. Eng (Civil), MIEM
MANAGING DIRECTOR





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

Office: +60(86) 317 756, Mobile: +60(13) 802 4889

JAYA GEMILANG KONSULT PLT.



JAYA GEMILANG KONSULT PLT. (LLP0001573-LGN)

No. 12A-2, 2nd Floor, Jalan Radin Bagus 9, Bandar Baru Seri Petaling,
57000 Kuala Lumpur
Tel: +60(3)-9054 4564, Fax: +60(3)-9055 4564

February 27, 2020

BMECH ENGINEERING SDN. BHD.

Lot 604, Block 20,
Kidurong Industrial Area,
9700 Bintulu, Sarawak

(Attn: Mr. Voon Pei Liang)

Dear Sir,

**RE: TECHNICAL SUPPORT AND CORPORATION IN SURVEYING, SOIL INVESTIGATION,
GEOTECHNICAL ENGINEERING AND DESIGN WORK**

We, **JAYA GEMILANG KONSULT PLT. (JGK)**, being a specialist engineering consultant with extensive experience in the above-mentioned subject, hereby agrees to corporate with **BMECH ENGINEERING SDN. BHD. (BMECH)** to pursue upcoming projects in Sarawak.

JGK and **BMECH** are committed into endeavour to jointly develop a core competency, consist of a group of highly skilled professionals to expand our capabilities and capacities in the mentioned field and its related works.

Thank you.

Yours faithfully,
for **JAYA GEMILANG KONSULT PLT.**


LEE GHIM PENG
DIRECTOR





BMECH ENGINEERING SDN. BHD.

(Co. No. 1105263-T)

Sublot No. 1 & 2, Lot 257, Block 32, Jalan Sungai Sibiyu,
97000 Bintulu, Sarawak.

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END