

## Detail Engineering

Developing designs and documents through integrated engineering involving extensive interaction of process, piping, mechanical, electrical & instrumentation and civil engineers.



Project Name	Client
Detailed Engineering of CSF Line Expansion Project at Johnson Matthey	Exyte Malaysia Sdn Bhd
Detail Engineering Design for POME Facility Upgrading at 7 Petron Terminals	Petron Malaysia Refining & Marketing Bhd
Hot Oil System Review for Bitumen Plant in Hong Kong-TYI	Shell Hong Kong LTD
Detail Engineering of Fire Fighting Piping (Hydraulic) for R2 Project	JFE Engineering (M) Sdn Bhd
Engineering Scope of Work for Electrical & Instrumentation Services for R2 Project	JFE Engineering (M) Sdn Bhd
NC2 TA 2020 Major Modification at LCTM	Sankyu (M) Sdn Bhd
Piping Detail Engineering to Replace Expansion Joint/Hose for Bitumen Facility at Shell Bintulu Terminal	PS Terminal Sdn Bhd
HAZOP Study for R2 Proposal	JFE Engineering (M) Sdn Bhd
Pipe Stress Analysis of Bitumen Line of TK-501 BN and TK-510G at Kemaman Bitumen Company	Eastern Solder Eng & Const. Sdn. Bhd.
DED of Installation of New Nitrogen Let Down Station and Piping for Utility Plant at LCTM	Yu Hoi Constuction & Engineering Sdn Bhd
WWTP Engineering Design at LCTM	Waterplus (M) Sdn Bhd
Platform Drawing & Calculation for Amine Absorber & Amine Regenerator	Jutasama Sdn Bhd
ADO Tank Pressure/Vacuum Range Calculation	Petron Malaysia Refining & Marketing Berhad
EPCC of Shah Alam City Gate Upgrade Project (Inspection of Explosion Proof Equipment)	WZS Misi Setia Sdn Bhd

Project Name	Client
Engineering Design Services for FA-301 Dynamic Separator Seal Cooling System Upgrade for Lotte Chemical Titan (M) Sdn Bhd	LNC Solutions Sdn Bhd
One Vessel Platform Drawing & Calculation	Jutasama Sdn Bhd
Pipe Stress Analysis of MS and Flare Lines (2 nos.) for 2SP Pre-Bid	Sankyu (M) Sdn Bhd
Vessel Thickness and Weight Calculation for 2SP Pre-Bid	Sankyu (M) Sdn Bhd
Detail Engineering of Civil and Structure and Piping for R2 Project	JFE Engineering (M) Sdn Bhd
Calculation on Deluge Valve System for V-109N	Lotte Chemical Titan (M) Sdn Bhd
Flow Measurement at Cooling Tower Header, Emery Oleochemicals Rika (M)	Emery Oleochemicals Rika (M) Sdn Bhd
Engineering Services/Assistance for the EHT System Installation at Shell Eastern Petroleum Installation	Shell Eastern Petroleum (Pte) Ltd
Piping Detail Engineering Services for Expansion Loop and Bellows for Bitumen Facility at Shell Sepangar Bay Installation	Shell Timur Sdn Bhd
Centralized Cooling Water Tower Chemical Dosing System Shelter PP1/2/3	LNC Solutions Sdn Bhd
MST 3.1 Operational Strategy Phase 1 Project	WHH Engineering & Construction Sdn Bhd
Hazardous Area Classification (HAC) Study for M808 Shah Alam City Gate Station	WZS Misi Setia Sdn Bhd
FNCI Catalyt Collector Installation Work	Special Triumph Sdn Bhd
Proposal for C&S Engineering Service for Existing Jetty on TL077507601	Shell Karamunting Sandakan Terminal
New Cooling Tower System	Emery Oleochemicals Rika (M) Sdn Bhd

Project Name	Client
Principal Submitting Person (PSP) for M1 Recovery Project	JFE Engineering (M) Sdn Bhd
NG9/ Gateway Energy Monitoring System	Power Cables Malaysia Sdn Bhd
Detailed Engineering for Lube Blending Plant Facility	Sumber Petroleum Cemerlang Sdn Bhd
Industrial Water Effluent Characteristic Study (IECS) and JAR Test	Vinda Malaysia Sdn Bhd
Piping Detail Engineering for Expansion Loop for Bitumen Facility	Shell Timur Sdn Bhd
Styrene Bulk Storage Project at Quality Polymer Sdn Bhd, Pasir Gudang	WHH Engineering & Construction Sdn Bhd
TA 2018 Piping Modification Works - Commercial Proposal	Petron Malaysia Refining & Marketing Berhad
Tanker Discharge Line Hydraulic Adequacy Study at Petron Bagan Luar Terminal	Petron Malaysia Refining & Marketing Berhad
Application of Development Plan, Building Plan and CFO for the Existing Facilities at Shell Timur Sdn Bhd (IWK Application for Independent Sewerage Treatment Tank – SWA & SWC)	Shell Malaysia Trading Sdn Bhd
Installation of Standby Pumps at WWT-1 & WWT-2 in Utility Area at Lotte Chemicals Titan (M) Sdn Bhd	LNC Solutions Sdn Bhd
Off-Gas to Furnace F-101 Project at Kemaman Bitumen Refinery, Kemaman, Terengganu. (Redesign for Revised Basis)	Kemaman Bitumen Company Sdn Bhd
Pressure Regulating Valve (PRV) Incorporation at Shell West Port installation.	Shell Malaysia Trading Sdn Bhd
Product Cargo & Utility Line Re-Routing (U/G Piping)	Shell Malaysia Trading Sdn Bhd
Conceptual/CAPEX Study for Asphalt & Lube Oil Blending Facilities	Petron Malaysia Refining & Marketing Berhad
Product Cargo & Utility Line Re-Routing (U/G Piping) at Shell Sandakan Terminal.	Shell Malaysia Trading Sdn Bhd

Project Name	Client
Extension Loop for Bitumen Facility at Shell Sepangar Bay installation.	Shell Malaysia Trading Sdn Bhd
Off-Gas to Furnace F-101 Project at Kemaman Bitumen Refinery, Kemaman, Terengganu	Kemaman Bitumen Company Sdn Bhd
Storage Tank No. 5 & 7 Inlet Diffuser foe Shell Pasir Gudang Installation.	Shell Malaysia Trading Sdn Bhd
Transient Study for Tank Truck Loading Rack Piping at Shell Westport Installation	Shell Malaysia Trading Sdn Bhd
Authority Submission Services for Project Cargo & Utility Line Re-Routing (U/G Piping)	Shell Timur Sdn Bhd
Regeneration Booster Heater 2H-751 Relocation Project at LCTM, Pasir Gudang	WHH Engineering & Construction Sdn Bhd
Process Engineering Verification Services for Hot Oil System at Shell Bintulu Installation	Shell Timur Sdn Bhd
1 Nos. 4Kt Bitumen Storage Tank and Associated Works in Senari IOT Terminal	Shell Timur Sdn Bhd
LCTM NC-1 Plant Turnaround July 2017 for Major Modification	Sankyu (M) Sdn Bhd
Installation of LS Header to E-625 & E-626	WHH Engineering & Construction Sdn Bhd
CCTV Modification with Additional Points at TTLR Gantry at Shell Sepangar Bay Installation	Shell Malaysia Trading Sdn Bhd
New Compound Lighting at Bund wall Area No 4 and CCTV Modification with Additional Points at TTLR Gantry at Shell West Port Installation	Shell Malaysia Trading Sdn Bhd
Crude Tank Flexibility for Malaysia Crude Oil (MCO) Project	Chiyoda Malaysia Sdn Bhd
LCTM NC -1 Plant Turnaround July 2017	WHH Engineering & Construction Sdn Bhd
Diverted Damper Inspection at YTL Paka Power Station	YTL Power Services Sdn Bhd

Project Name	Client
RAPID 32 Provision of EPCC for Quality Measurement Instrumentation (QMI)	MIE Industrial Sdn Bhd
Product Cargo and Utility Line Re-Routing (U/G Piping) at Shell Sandakan Terminal	Shell Malaysia Trading Sdn Bhd
Additive Storage Shed Project at Shell Sepangar Bay Installation	Shell Malaysia Trading Sdn Bhd
2 Nos Gel Filter and 1 Nos. Pressure Safety Valve (PSV) Provision	Idemitsu Petrochemicals (M) Sdn Bhd
EPCC Scope of Works for the Electrical Heat Tracing System for the Bitumen Cargo Line	Shell Eastern Petroleum (PTE) Ltd
New Office Facility at Existing Structural Shed No 2 at Shell Labuan Installation	Shell Malaysia Trading Sdn Bhd
Fire Fighting Foam Deluge Sprinkler System at the Tank Truck Loading Rack (TTLR) at Shell Sandakan Terminal	Shell Malaysia Trading Sdn Bhd
Engineering Review Services for Electrical Heat Tracing System for the Bitumen Cargo Line	Shell Eastern Petroleum (PTE) Ltd
Pipe Stress Analysis Report for Minor Modification Project at Titan Petrochemicals Sdn Bhd	LNC Solutions Sdn Bhd
Civil Foundation and Pipe Stress Analysis for Condensate Separator at Petronas Chemicals Methanol Sdn Bhd	Energy & Strategy Consulting Sdn Bhd
Bagan Luar Installation Tank Truck Loading Gantry Ventilation	Shell Malaysia Trading Sdn Bhd
Front End Engineering Design and Project Management for New 50kB ULG95 Storage Tank and Associated Piping at Petron Bagan Luar Terminal	Petron Malaysia Refining & Marketing Berhad
Engineering, Procurement and Construction of NC2 TA2016 Major Modification Project, LOTTE Chemical Titan (M) Sdn Bhd, Pasir Gudang	Sankyu (M) Sdn Bhd
Hazardous Area Classification Project	Hitachi Zosen Corporation
Storage Tank T-105 and Storage Tank T-120 Tie in Project	Shell Eastern Petroleum (Pte) Ltd

Project Name	Client
Tank T-405 Jetty Tie in Project	Shell Eastern Petroleum (Pte) Ltd
Electrical Room Modification at Sandakan Installation	Shell Malaysia Trading Sdn Bhd
Engineering, Procurement Assistance and Construction Management (EPCM) Services for the PJ Radial OTR Growth Expansion Scenario 40 Tons	Continental Tyre Malaysia Sdn Bhd
Capex Development Project at Shell Singapore Terminal	Shell Eastern Petroleum (Pte) Ltd
Installation of Big Radial Media Hook Up Project	Continental Tyre Malaysia Sdn. Bhd.
KANEKA (Malaysia) Sdn Bhd NaOH Centralized Facility Project	Paras Saksama Sdn Bhd
Hot Oil Furnace Chimney Foundation and Truck Loading Gantry (TTLR) Product Spillage Containment At Shell Sandakan Instalation, Malaysia	Shell Timur Sdn Bhd
Review of The Existing terminal Fire Fighting System At Shell Tanjung Gelang Installation	Shell Malaysia Trading Sdn Bhd
Design Review Services For The Existing Hot Oil System and Detail Engineering Services For Bitumen Cargo Line Re-Routing (U/G Piping) At Shell Sandakan Terminal	Shell Timur Sdn Bhd
Design Review Services For The Existing Hot Oil System At Shell Sepangar Bay Terminal	Shell Timur Sdn Bhd
Design Review Services For The Bitumen Import Pipeline and Hot Oil System At Shell PST Bintulu	Shell Timur Sdn Bhd
West Port Terminal Pipe Stress Analysis	HSS Integrated Sdn Bhd
Kebenaran Merancang Approval for the Waste Oil Storage Shed	Shell Malaysia Trading Sdn Bhd
Design Review for the AOC and COC Line at KBC New Land	Energy & Strategy Consulting Sdn Bhd
Engineering Services for MBS M-270 Kaneka Project at Kuantan	Paras Saksama Sdn Bhd

Project Name	Client
Engineering Services For The Firefighting Design Basis Development, Hazardous Area Assessment Drawing Review and Design Data Development at Shell Timur Sepangar Bay Installation Malaysia.	Shell Timur Sdn Bhd
Additive Storage Facility for Shell Timur Sandakan Terminal	Shell Timur Sdn Bhd
Waste Oil Storage Facility for Shell Westport Terminal	Shell Malaysia Trading Sdn Bhd
New HTV Installation Project	Kaneka Malaysia Sdn Bhd
Fire Water Tank & Pump Design Engineering for Shell Timur Labuan Terminal	Shell Timur Sdn Bhd
Basic Engineering, Detail Engineering & ITB Preparation for the Flow Charge for Bitumen Mix System and Crude & Bitumen Piping System at Kemaman Bitumen Company Sdn Bhd	Kemaman Bitumen Company Sdn Bhd
Regulatory And Permitting Approval (Permit & Endorsement) for 100TPD Scheduled Waste-To-Energy-Project for Kualiti Alam in Tanah Ladang Merah, Negeri Sembilan, Malaysia.	Hansol KNM Greentech Sdn Bhd
EPCM Services For The Installation of A Hot Water Recovery System at Continental Tyre Malaysia Sdn. Bhd.	Continental Tyre PJ Malaysia Sdn. Bhd.
Shell Malaysia Trading Westport Installation. WPI Hazardous Area Classification Drawing Review and Preparation	Shell Malaysia Trading Sdn Bhd
Detail Engineering for Kaneka MG-1 Waste Water Treatment	Mikuni Kikai Asia Pacific Sdn Bhd
New Hoist Support Frame Project And Kaneka Monorail Project	Paras Saksama Sdn. Bhd.
EPCC of Off-Gas to Furnace F-101 Project at Kemaman Bitumen Refinery, Telok Kalong, Terengganu	Kemaman Bitumen Company Sdn Bhd.
MBS AL-X Production Facility Project at Kaneka.	Paras Saksama Sdn. Bhd.
Detail Piping Design For The ADO Product And Firefighting Piping at Petronas Miri Terminal	Eastern Soldar Eng & Const. Sdn. Bhd.
Pipe Sleepers And Support Re-Engineering Services for Felda Procter And Gambles (FPG)	Paras Saksama Sdn. Bhd.

Project Name	Client
Heat Flux Study For The New Crude Tanks for Kemaman Bitumen Refinery	Kemaman Bitumen Company Sdn Bhd
Bagan Luar Installation Vapour Release System Review for Shell Malaysia.	Shell Malaysia Trading Sdn Bhd
Shell Bagan Luar Installation Tank Truck Loading Gantry Ventilation	Shell Malaysia Trading Sdn Bhd
Shell Bagan Luar Installation Marine Import Capacity Review	Shell Malaysia Trading Sdn Bhd
Engineering Study for TRV, PRV and PCV Setting From Storage Tank to Pump and Pump to TTLR for Independent Oil Terminal (IOT)	IOT Management Sdn Bhd
Finite Element Analysis for Tank T-8410 For Chiyoda Malaysia Bintulu Project	Chiyoda Malaysia Sdn Bhd
Kaneka Eperan Sdn Bhd AFT Project	Paras Saksama Sdn Bhd
Consultancy, Detail Design, Engineering & Construction of a Compact Electrical Sub-Station at Petron Kuantan Terminal	Petron Fuel International Sdn Bhd