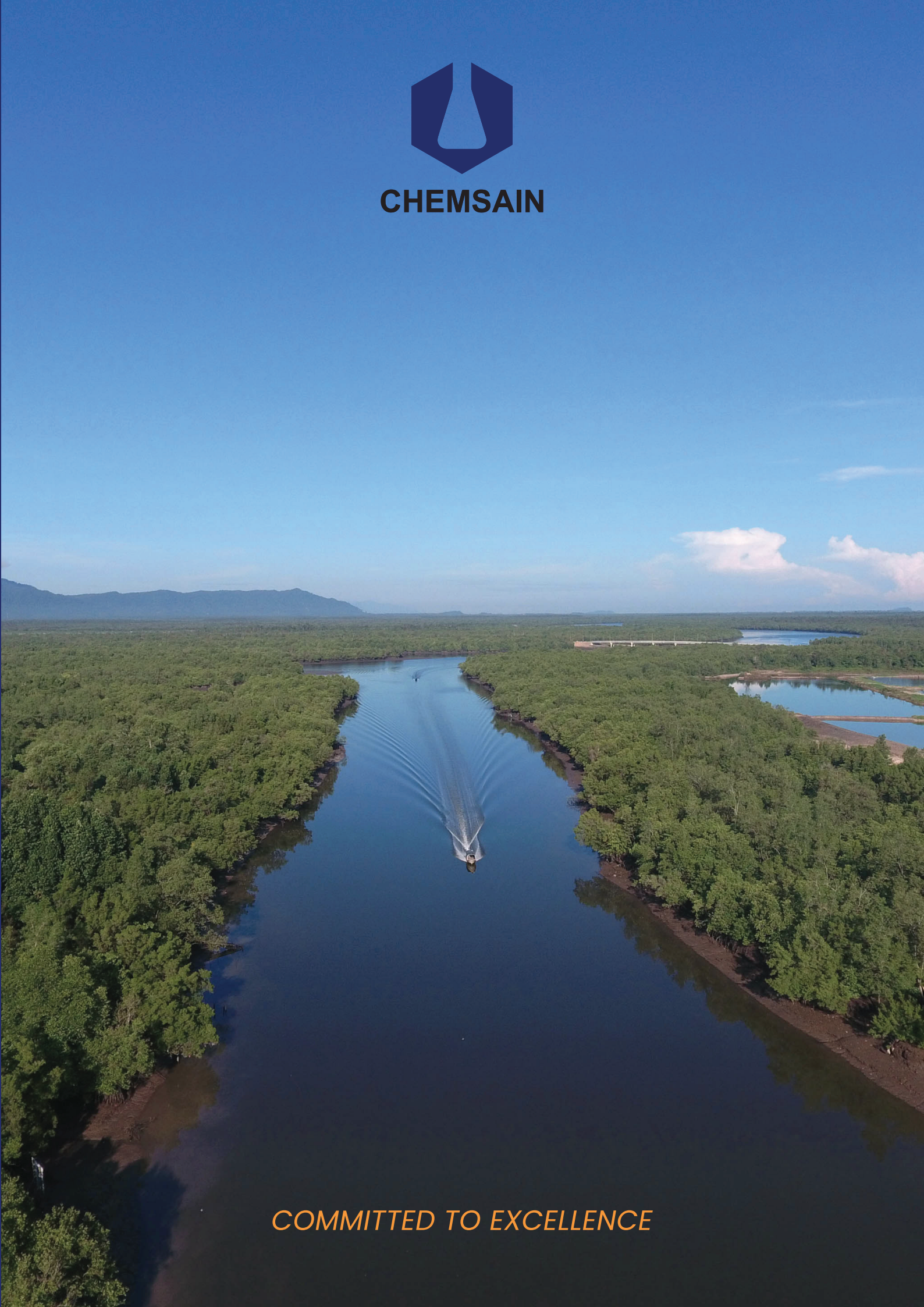
CHEMSAIN



*COMMITTED TO EXCELLENCE*

# OUR SERVICES

## LABORATORY

**MS ISO/IEC 17025 Accredited**

### Chemical & Microbiological Testing

- Water / Drinking Water / Potable Water
- River / Wastewater / Industrial / Effluent / Sewage / Groundwater
- Estuarine Water / Marine
- Food & Food Products
- Fertilizers / Soil / Plants
- Sediment / Sludge / Scheduled Waste (TCLP & TTLC)
- Water Treatment Chemicals
- Palm Oil & Palm Oil Products
- Industrial Hygiene samples such as filters, solid sorbent tubes
- Cooling Water
- Surface, Equipment & Hand Swab Testing

### Oil & Gas Testing

- Crude oil & Petroleum feedstock
- Crude Assay
- Gas & Crude Pipeline Fluid
- Natural Gas
- Lube oil / Transformer oil
- Biodiesel / Biodiesel blend / Diesel fuel
- Aviation fuel
- Formation Water / Produced Water
- Pigging Debris
- Fire Fighting Foam
- Production Surveillance Services - Onsite contaminants mapping including mercury & $H_2S$

### Cylinder Maintenance & Hydrostatic Testing

- Through seal, O-ring, and valve diagnostics
- Hydrostatic pressure testing

## WATER INFRASTRUCTURE

- Water Resources Study and Management
- Design, Supply, Installation, Construction, Control and Operation including Remote Supervisory Control and Data Application (RSCADA) of Water Treatment Plants
- Rehabilitation, Repair & Rejuvenation of Existing Water Treatment Plant & Water Supply Systems
- Supply Water Tanks, Pumps, Valves, Drives, Controllers, Recorders and Fittings

## TRAINING & DEVELOPMENT

- Occupational Safety and Health Coordinator
- Drone - Remote Pilot Certificate of Competency (RCOC-B)
- Environmental
- Chemical Laboratory Operation
- Safety & Health
- Sustainability & Climate

## ENVIRONMENTAL CONSULTANCY

- Environmental Impact Assessment (EIA)
- Environmental Social Impact Assessment (ESIA)
- Environmental Management Plan (EMP)
- Environmental Compliance Audit
- Environmental Monitoring Programs
- Environmental Site Assessment (Phase I & II)
- Due Diligence Environmental Investigations Compliance to Equator Principles
- Environmental Protection Planning and Management Studies
- Master Planning and Feasibility Studies
- Catchment Management Studies
- Social Impact Assessment
- Social Risk Assessment (SRA)
- Environmental Corporate Reporting
- Environmental Modelling - Water, Ground Water, Air, Noise and Soil Erosion
- Hydraulic and Hydrodynamic Modelling
- Oil Spill and Mud Spill Modelling
- Natural Resources Planning and Management
- Coral Mapping
- Risk Assessment
- Terrestrial Ecology Study
- Aquatic Ecology Study

## ENVIRONMENTAL ENGINEERING

- Sewage & Industrial Wastewater Treatment
- Solid & Hazardous Waste Management
- Landfill Design and Management
- Recycling & Resource Recovery
- Industrial Effluent Characterization Study (IECS)
- Written Notifications for Pollution Equipment
- Special Management of Scheduled Waste
- Remediation of Contaminated Sites
- Erosion and Sediment Control Plan (ESCP)
- Environmental Engineering Feasibility / Special Study

## INFORMATION MANAGEMENT

- Local/Remote Process Control & Instrumentation, Monitoring via GIS/SCADA Integrated Platform
- Non-Revenue Water (NRW) Monitoring System
- Remote District Metering (DMA) and Automated Meter Reading (AMR) Monitoring System
- Integrated Environmental Management System
- Utilities and Asset Inventory Mapping
- Laboratory Information Management System (LIMS)
- Waste Management Information System (WMIS)
- Geo-Spatial Information System (GIS)
- Stack Continuous Emission Monitoring Systems (CEMS), Control and Operation

## ON SITE TESTING & SAMPLING

### Environment

- Air Quality
- Stack Emission
- Water Quality
- Groundwater
- Boundary Noise
- Soil and Sediment
- Ecology
- Landfill Gas
- Ground Vibration Monitoring
- OGMP 2.0 Gold Standard Pathways: L4 (source level) and L5 (site level) Methane Emissions Measurement and Consolidation
- Flare Combustion Efficiency (CE) and Destruction Efficiency (DE) Measurement

### Occupational Hygiene

- Chemical Exposure Monitoring (CEM)
- Asbestos Fibre Identification & Monitoring
- Noise Risk Assessment (NRA)
- Indoor Air Quality (IAQ) Assessment
- Heat Stress Assessment
- Lighting Assessment
- Mobile Audiometric Testing
- Inspection, Testing and Examination of Local Exhaust Ventilation (LEV)
- Gas Monitoring

### Gas & Crude Pipeline Fluid Sampling

*(On-Shore and Off-Shore)*

- Bacterial Growth Monitoring (Sulphate Reducing Bacteria)
- Gas, Crude & Condensate
- Pigging Debris

### Other Testing Services

- Chlorination of Reservoirs, Tanks & Pipelines
- RPE Fit Testing
- Independent CEMS Audit - *QAL2, AST and Functional Test*
- Independent PEMS Audit - Initial RATA, Annual RATA and Quarterly RAA

## OCCUPATIONAL SAFETY & HEALTH

- Health Risk Assessment (HRA)
- Chemical Health Risk Assessment (CHRA)
- Occupational Hygiene Services
- Ergonomic Risk Assessment (ERA)
- Psychosocial Risk Assessment
- Occupational Safety and Health Consultancy

## DRONE TECHNICAL CENTRE

- Unmanned Aerial Vehicles (UAVs) and Drones Deployment
- Drone Pilot Training
- Aerial Mapping
- LIDAR Mapping
- Environmental Mapping & ForensicBuilding, Structural & Safety-at- Height Inspection
- Aerial Search and Reconnaissance
- Landfill and Waste Management
- Operational Support

## SUSTAINABILITY

### Climate Related Services

- GHG Accounting & Consulting *(i.e. inventory, baseline, lifecycle & intensity)*
- Climate-Related Risk Mapping and Disclosure
- Climate-Related Gap Analysis and Benchmarking
- Carbon Project Development *(i.e. ARR, REDD+, APD)*
- GHG Verification & Audit
- GHG related due diligence & feasibility study

### Sustainability Consulting & Reporting

- Stakeholder engagement
- Materiality Analysis
- Gap Analysis and Benchmarking
- Disclosure Reporting Guided by Relevant Standards and Frameworks
- Sustainability Consulting *(i.e. assessments, roadmap & data gathering)*
- Sustainability due diligence & feasibility study

## ACCREDITATIONS & CERTIFICATIONS

ilac-MRA

STANDARDS MALAYSIA ACCREDITED
SAMM 057, 238, 502, 575, 701, 719, 782, 1051

SIRIM STANDARDS MALAYSIA
CERTIFIED TO ISO 9001:2015
CERT NO: QMS 03036

SIRIM IQNET
CERTIFIED TO ISO 9001:2015
CERT NO: MY-QMS 03036

GRI COMMUNITY MEMBER 2023

bsi Greenhouse Gas PRACTITIONER

MALAYSIA MyHIJAU
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