

A Winning  
**Strategy**



**Environmental Permitting & Compliance Specialist**



Department of Environment Malaysia  
Registered EIA Consultants & Auditors



National Environment Agency Singapore



Department of Minerals & Geology  
Registered Professional Geologists



NIOSH Registered Consultants



Environment Protection Department of Sabah, EPD Registered Consultants



Lembaga Sumber Asli & Alam Sekitar



Ministry of Finance Malaysia Registered  
Environmental Consultancy Firm



# OUR SPECIALISED AREAS OF ENVIRONMENTAL SERVICES



## Environmental Impact Assessment (EIA)

Environmental Impact Assessment (EIA) serves as a planning tool to identify the environmental, social and socio-economic and human-health impacts of a project. The aim is to predict the environmental impacts at an early stage of project planning and design, and mitigate the negative impacts by redesigning the project so that it is better suited to the environment and the communities that will be impacted by it. The EIA study and its findings can reduce cost and time of project implementation, and save huge remediation and compensation costs caused by an ill-planned development project.

AGV's EIA consultants have more than 20 years of experience and have completed more than 300 EIAs combined in almost every sector – property development, highway development, port/jetty development, reclamation, manufacturing, oil & gas, power, mining, landfill, water resource management, plantation among others. Our consultants are registered with the Department of Environment.

## Social Impact Assessment (SIA)

**Social Impact Assessment (SIA)** is carried out to ascertain the impacts both positive and negative on the society that arises from the implementation of a certain development programme or project. The assessment process involves public participation and engagement with project proponent and local authorities. As a result of the SIA, the impacts are clearly identified and detailed mitigation and management plans are developed prior to the implementation of the project or programme.

Following the Social Impact Assessment, a **Social Impact Management Plan (SIMP)** is developed that serves as the working guide for the implementation stage of the project or programme

AGV's Social Impact Assessment consultants are registered with Plan Malaysia and are very well versed with the guidelines on SIA preparation.

## Environmental Risk Assessment (ERA)

**Environmental Risk Assessment (ERA)** is conducted to assess the potential environmental risks associated with any economic activity. ERA describes the potential hazards and impacts, and provides the necessary precautionary steps to address these risks.

Potential environmental hazards that may require ERA to be conducted:

- hazardous (scheduled) waste,
- emissions,
- hazardous substance
- liquid waste
- environmental impact of raw materials
- environmental impact of packaging







## Hydrogeological Assessment

**Hydrogeological Assessment** is carried out to determine the risks due to groundwater or nearby river/canal system that may affect the proposed development. The impacts to be considered for assessment includes flooding and structural damage due to soil settlement and ground movement.

Environmental study such as an Environmental Site Assessment or Environmental Impact Assessment may also require hydrogeological assessment to develop model on contaminant migration and develop the remediation plans.

AGV's Hydrogeological Assessment consultants are certified and registered with the Department of Environment and other relevant regulatory bodies.

## Traffic Impact Assessment

Traffic Impact Assessment(TIA) is an assessment of the traffic and safety impacts caused by a development. The aim of the development is to determine is the road network surrounding a new development is able to support the additional volume of traffic arising from the increased population and economic activities in that development.

AGV's TIA consultants are very experienced in carrying out assessment for small to large scale developments, and are certified/registered with the Department of Environment.

## Noise & Air Quality Assessment

Noise assessment is carried out to determine the amplitude (level) of noise caused by a development project during the construction and operational phase of a project. The noise level modeling at the boundaries of the project will determine the noise pollution impacting the communities around the project.

Air Quality Assessment & Modelling is carried out to determine the type of pollutant that will be produced as a result of certain types of projects especially industrial activities, and the spread of the pollutant from the source to the surrounding environment based on the wind speed and directions data. Air quality assessment helps determine the negative impacts on surround communities and develop necessary mitigation measures.

AGV's Noise & Air Quality Assessment consultants are specialists in this field with more than 2 decades of experience and the necessary registration & certification with DOE.

## Quantitative Risk Assessment (QRA)

**Quantitative Risk Assessment (QRA)** provides quantitative analysis of risks for an operation and its parameters. Qualitative risk analysis determined the probability of a risk event occurring, and its impact if it occurs. QRA assigns numerical value or quantitative rating to the risk, and analyses the probability of the risk and estimates its impacts. QRA is deployed widely in the chemical process and petrochemical industry.

QRA should be carried out during the establishment of the plant and whenever changes are made to its operations such as plant expansion, addition of new machines or substance and procedures.

AGV's QRA specialists are registered with the Department of Environment, and certified Competent Professionals in this field.

## Health Impact Assessment (HIA)

**Health Impact Assessment (HIA)** is used to judge the potential health effects of a policy, programme or project on a population, particularly on vulnerable or disadvantaged groups. Recommendations are produced for decision-makers and stakeholders, with the aim of maximising the proposal's positive health effects and minimising its negative health effects.

Health Impact Assessment carried as part of an environmental study includes health issues that can be measured – such as chemical and pollution exposure – while focusing less on qualitative information such as community perceptions of health issues.

\* World Health Organisation's definition & guide

AGV's HIA consultants are medical practitioners and are registered with the Department of Environment.



Steel & Iron



Infrastructure & Construction



Manufacturing sector



Water Reservoir & Dam



Housing & Commercial Development



Plantation



# IFC Performance Standards-Compliant Environment & Social Impact Assessment (ESIA)

IFC Performance Standards-compliant ESIA is carried out in compliance to framework set out by the International Finance Corporation to manage and mitigate environmental and social risks and impacts.

The IFC Performance Standards is aimed to improve the opportunities for private sector financing in countries which are members of the IFC. The IFC performance standards may also be applied by other financial institutions (Equator-Principle Lenders) in supporting development projects in emerging markets. This framework consists of 8 specific performance standards that the client must meet throughout the lifetime of the investment

AGV's consultants have carried out IFC-Performance Standard-compliant Environment and Social Impact Assessment (ESIA) in many developing countries in South East Asia, Azerbaijan, and South Africa for infrastructure development and private sector financing requirements.

## Sectors Served in Environmental Permitting & Compliance Projects

- ▶ Manufacturing – automotive, F&B manufacturing, paint, rubber products, plastic films, steel, IT, electronics, pharmaceutical, biotechnology, tyre manufacturing, industrial gas, steel fabrication, electrical, chemical, petrochemical, packaging, lube oil blending plant, textile, rare earth processing and agricultural feedstock.
- ▶ Oil & gas - petroleum refinery, crude oil terminal, petrol/gas retail stations,
- ▶ Urban & Mixed Development – residential and commercial developments
- ▶ Industrial Development - manufacturing plant sites and industrial estates
- ▶ Waste management - landfill closure, scheduled waste, industrial waste disposal sites
- ▶ Infrastructure Construction
- ▶ Chemical and Petrochemical
- ▶ Power Generation
- ▶ Iron and Steel smelting
- ▶ Mining
- ▶ Cement - manufacturing, alternative raw material and alternative fuel permitting
- ▶ Paper & Packaging Industry
- ▶ Coastal Reclamation Projects
- ▶ Dams and Reservoirs for water supply
- ▶ Wastewater treatment facility
- ▶ Waste Management
- ▶ Scheduled Waste (Toxic and Hazardous Waste) Recovery Facilities
- ▶ Waste Recovery/Recycling

# About Us & Our Services

AGV Environment is a multidisciplinary environmental consultancy, founded by environmental consultants and professionals who have extensive experience of more than 20 years in senior roles in leading multinational consultancies and engineering firms, and in the public sector. The firm is a registered environmental consultancy with the Ministry of Finance Malaysia, all our consultants have the necessary licenses and are registered with the Department of Environment and the Department of Occupational Health & Safety.

Our consultants have consulted for projects across a vast number of sectors among which are construction, property/ infrastructure development, power generation, water resource management, plantation, petrochemical & chemical, oil & gas, renewable energy – solar & biodiesel, land reclamation, waste management and manufacturing. Experiences in the manufacturing sector includes electronics, cement, rare earth processing, palm oil mills, automotive and construction material sectors. The combined experience of our senior consultants exceed 180 years of solid environmental consultancy and environmental engineering work undertaken in almost every sector and industry.

To provide our clients with top notch service, we have forged strategic partnerships with some of the leading international environmental consultancies from North America and Europe. Working together with our partners, we offer benchmarking against other international projects, input of global experiences that can further enrich the value of our consultancy, and technical review by some of the best experts in the subject from around the world.

AGV Environment has the expertise and experience, in our consultants and in our strategic partners to provide the best in environmental consultancy to meet regulatory requirements and stakeholders' expectations in your current operations and to continuously support the growth of your organisation.

## Environmental, Health & Safety

- ▶ Environmental Impact Assessment (EIA)
- ▶ Environment & Social Impact Assessment Services (ESIA)
- ▶ Environmental, Health & Safety Compliance Audit
- ▶ Environmental Management Plan (EMP) and Monitoring
- ▶ Industrial Hygiene
- ▶ EHS Management System
- ▶ Climate Change and Resilience
- ▶ Energy, Carbon & Climate

## Sustainability Services

- ▶ Preparation of Sustainability Report as per BURSA/SGX requirement
- ▶ Developing Internal Sustainability Guidelines,
- ▶ Sustainability Strategy,
- ▶ Sustainability Policy,
- ▶ Monitoring & Evaluation of Sustainability Initiatives

## Land Contamination & Remediation

- ▶ Phase I Environmental Site Assessment
- ▶ Phase II Environmental Site Assessment (ESA)
- ▶ Remediation Works and Contracting

## Waste Management

- ▶ Waste Management Consultancy
- ▶ Rehabilitation & Redevelopment of Landfill
- ▶ Basel Convention Permitting Services

## Water Management

- ▶ Wastewater Treatment & Permitting
- ▶ Groundwater services
- ▶ Coastal & Marine Services
- ▶ Surface Water & Hydrology Service

## Strategic Advice & Planning

- ▶ Due Diligence Services
- ▶ Strategic Planning,
- ▶ Advice & Management Services

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