



**Resource  
Industry  
Consultants**

# Indonesia

## CSA Global Indonesian Expertise

Since 1986, CSA Global's consultants have worked on a diverse range of projects in the Asian region, in particular Southeast Asia and Indonesia, across many mineral commodities and covering all stages of the exploration and mining cycle. An increase in demand for our expertise in the region led us to open an office in Jakarta, to provide local knowledge to complement our global expertise.

We draw on our collective experience to customise exploration and mining solutions to each client's requirements. Our advice and services are tailored to respond to the individual advantages and constraints of each geographical region. This approach helps us to provide a holistic approach to operating within the Asian region.

We have worked with all sizes of companies from small businesses to international majors, also with governments, communities and NGOs. We make it our business to get to know and understand the region's cultural diversity, history and technical capability. We identify with each region's approach to sustainability and its level of support for our industry.

Our office in Jakarta is an ideal regional hub which provides on-the-ground support to our consultants who have been servicing the Asian region from our international offices for more than two decades.

### Exploration & Evaluation

- Research & targeting studies
- Exploration planning & supervision
- Field investigations (*mapping, geochemistry, drilling, etc.*)
- Project reviews & evaluation
- Technical & expert reporting

### Data Management & Mapping

- Data capture & validation
- Database design & management
- GIS & mapping services
- Database hosting, security & audits
- Intranet design & setup

### Resources & Mine Geology

- Data collection & QA/QC audits
- Geological modeling & Mineral Resource estimation (*JORC, NI.43-101, PERC, China, Russia, etc*)
- Resource assessment & expert reporting
- Mine geology reviews & contract services
- Grade control & dilution management

### Mining & Projects

- Ore reserve reporting & classification
- Mine & operations design & strategy
- Engineering studies (*concept & PFS to BFS*)
- Due diligence & operational audits
- Strategic planning & productivity improvement

### Community Development & Sustainability

- Impact assessment & sustainability programs
- Stakeholder liaison & community engagement
- Landscape interpretation & geotourism
- Educational workshops & training courses
- Sustainability benchmarking & certification



## Recent Indonesian Projects

PROJECT	COMMODITY	WORK COMPLETED
Asera	Nickel	Mine optimisation studies
Aifat	Coal	JORC compliance, mining studies
Aquila	Nickel	Resource and reserve estimation, mining studies, expert advice
Bumanik	Nickel	Resource and reserve estimation, mining studies, expert advice
Dairi	Zinc/Lead	Exploration audit, structural interpretation & resource estimation
Derewo River	Gold	Alluvial gold, Independent Geologist Report
Indonesia	Bauxite	Country Review
Indonesia	Nickel	Country Review
Jogyakarta Iron	Mineral Sands	Independent Valuation and database validation
Kabaena	Nickel	Resource Estimation, expert advice
KEL	Coal	Due diligence review, resource and reserve estimation
Kelapa Kampit	Zinc/Lead/Tin	Expert review, resource estimation
Lombok	Copper/Gold	JORC compliance, expert advice
Menyantuk	Coking Coal	Resource Estimate, JORC compliance, drill planning
Melak	Coal	Due diligence review
Morriss	Coal	Overburden dredging study
Sorawolio	Nickel	Resource Estimation, mining studies
Stargate	Nickel	Operating mine review
Tanoyan	Gold	NI43-101 Independent Geologist Report and resource estimation

## About CSA Global

We are a leading geological, mining and management consulting company with 25 years experience in the international mining industry.

We cover all stages of the exploration and mining cycle:

### Exploration & Evaluation

### Data Management & Mapping

### Resources & Mine Geology

### Mining & Projects

### Community Development & Sustainability

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