

The Brunei Economic Development Board

The Development of the Sungai Liang Industrial Park,
Brunei Darussalam

Master Planning Services

The Halcrow Group

Halcrow

Halcrow the company

Halcrow specialises in the provision of professional planning, design and management services for infrastructure development worldwide

- Established in 1868
- 2003 turnover - £211 million, £70 million outside the United Kingdom
- Over 4,000 staff
- Headquartered London
- 39 permanent international offices
- 28 UK offices

The people we employ

- Architects
- Chemists
- Civil engineers
- Economists
- Environmental scientists
- Financial Analysts
- Geotechnical engineers
- Geologists
- Hydropower engineers
- Landscape architects

- M&E engineers
- Meteorologists
- Maritime engineers
- Mathematicians
- PFI/PPP advisers
- Planners
- Property specialists
- Railway engineers
- Risk analysts
- Structural engineers

The markets they work in

- Air transport
- Coastal engineering
- Defence
- Education
- Healthcare
- Highways
- Hydropower/dams
- Industrial Development
- Leisure

- Nuclear
- Oil and gas
- Ports and dockyards
- Property development
- Railways and metros
- Water resources
- Flood defences
- Water supply
- Waste water

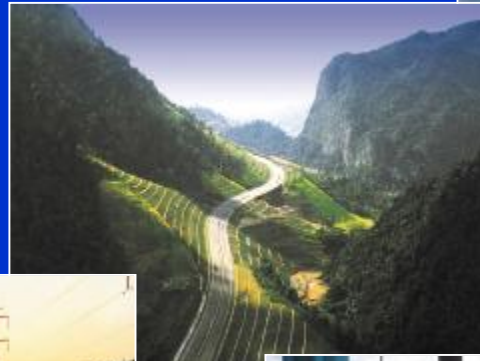
The skills they possess

- Business analysis
- Civil engineering (air transport, highways, railways, maritime, water)
- Design and build
- Due diligence
- Environmental science
- Facilities management
- Financial Planning
- Geology
- Infrastructure Development
- M&E engineering

- Meteorology
- Risk analysis
- Planning and strategy
- Process design
- Project management
- PFI/PPP
- Restructuring and privatisation
- Structural engineering
- Transport planning (air, rail, road)
- Urban/regional planning

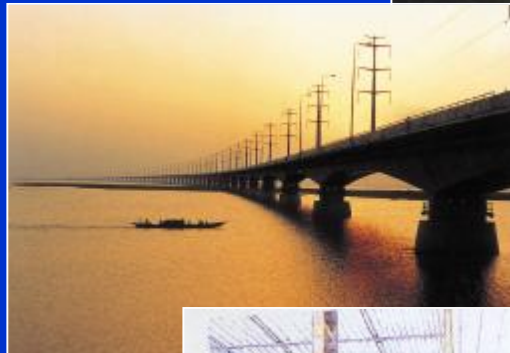
Regions - Asia

North South toll expressway
Malaysia



Putra LRT
Malaysia

Jamuna
bridge
Bangladesh



Ahmedabad – Vadodara
Expressway
India

MRTA Blue Line
Bangkok



Brahmaputra river
bank protection
Bangladesh

Typical clients

- AMEC
- Asian Development Bank
- BAA
- Balfour Beatty
- Bangladesh government
- Belize government
- British government
- City of Buenos Aires
- Dubai Municipality
- Egyptian National Railways
- Hong Kong MTRC

- Jamaica government
- London Underground
- National Highway Authority of India
- Port Authority of New York and New Jersey
- Railtrack
- Scottish Executive
- Sharjah Municipality
- Water utility companies
- Warner Brothers
- World Bank

Halcrow Development Planning

- Annual turnover £2.8 million
- Approximately 30 staff
- Particular expertise in large scale development planning, infrastructure layout, zoning and risk reduction
- Sound, practical advice using experienced staff at reasonable charge rates

Halcrow Business Solutions

- Annual turnover £7.2 million
- Approximately 50 staff
- Expanding quickly
- Particular expertise in Privatisations of Utilities, Public/Private Partnerships, Private Finance Initiative, Financial Modelling
- Sound, practical advice using experienced staff at reasonable charge rates



Iran: Pars Energy Zone, PSEZ Authority

Halcrow

Project Objectives

1. To facilitate development of industries which will bring considerable revenue to Brunei, provide employment and help to diversify the national economy;
2. To provide a world class facility with jetty and with a sufficient and reliable supply of gas, electricity and water and other utility services to serve the project needs;
3. To ensure sufficient protection to nearby residents including enhancement of the environment;

Project Objectives

4. To provide a Master Plan and front end engineering for the site by early April 2005 in order to meet crucial deadlines presented by the proponents for the petrochemical industries.
5. To analyse and recommend utilities development options and the procurement solutions for each utility, maximising where possible the application of private finance.

Methodology – Main Activities

1. Initial Scoping and Start Up
2. Transportation Planning
3. Preparation of Stage 1 Master Plan
4. Appraisal of Marine Facilities
5. Commercial Framework
6. Pricing Framework and Lease Arrangements
7. Concept Review
8. Detailed Planning
9. Procurement Options
10. Design and Documentation
11. Tender Procedures
12. Construction Management

Project Team - Management

As Small As Possible!

- Project Director
- Project Manager
- Project Co-ordinator
- Specialist Team Leaders
 - Planning
 - Marine and transportation
 - Financial
 - Construction

Project Team - Planning

- Project reviewer
- Development planner
- Urban designer
- Asst urban designer
- Transport planner
- Infrastructure engineers (2)
- Electrical engineer
- Environmental Specialist
- Landscape architect
- Highways engineers (2)
- Structures engineer
- Contract specialist
- CAD team (3)

Project Team – Marine & Logistics

- Project reviewer
- Logistics planner
- Coastal processes specialist
- Wave modeller
- Geotechnical engineer
- Marine environmental scientist
- Electrical engineer
- Mechanical engineer
- Jetty design team (5)
- Contract specialist
- CAD team (4)

Project Team – Financial

- Project reviewer
- Financial analysts (2)
- Institutional specialist
- Infrastructure specialist
- Financial modellers (2)
- Land valuer
- Lease specialist

Project Team – Construction

- Project manager
- Onshore works manager
- Marine works manager
- Contracts specialist
- Mechanical engineer
- Electrical engineer
- Geotechnical engineer
- Quantity surveyor
- Inspectors (6)
- CAD operator

**Head
Office
Support**