



LOH & LOH
CONSTRUCTIONS SDN BHD



THE **INFRASTRUCTURE** SPECIALIST

Company Profile



LOH & LOH

The
LOH & LOH
GROUP

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The Infrastructure Specialist

Building the Nation's infrastructure

LOH & LOH Constructions is one of the leading infrastructure specialist contractors in Malaysia with over 45 years of experience in major national infrastructure projects. Our proven track record includes some of the nation's largest infrastructure projects: the Sungai Selangor Water Supply Scheme — 950MLD (Million Liters per Day) Bukit Badong Water Treatment Plant; the Pahang Selangor Interstate Water Transfer project — Kelau Dam and 2260MLD Semantan Intake; the 250MW (Mega Watt) Hulu Terengganu Hydropower project; the National Sewerage Scheme — 300,000PE (Persons Equivalent) Kota Setar & Kangar Sewerage facilities; the Electrified Double Track project — Rawang–Ipoh and Seremban–Gemas; as well as the major bulk earthworks for the entire Government administrative city of Putrajaya.



Core Activities

WATER

- Complete Solutions**
- Dams**
- Hydropower**
- Treatment Plants**
- Intake & Pumping Stations**
- Pipelines & Reservoirs**
- Flood Mitigation**

SEWERAGE

- Pumping Stations**
- Treatment Plants**

RAILWAY

- Infrastructure**
- Bridges**
- Stations**

OTHERS

- Bulk Earthwork & Institutional Buildings**



Water Complete Solutions

Complete Water Solutions Provider

LOH & LOH Constructions is an Engineering, Procurement, Construction and Commissioning (EPCC) Contractor of complete upstream water infrastructure projects. Our vast experience in water infrastructure ensures that our EPCC solutions are reliable, economical and user focused. Supported by our sister company, Water Engineering Technology, LOH & LOH Constructions offers full Civil & Structural and Mechanical & Electrical Water Engineering solutions, providing clients with a rare one stop solution centre.



Betotan Dam
Height : 38m
Length : 1550m



250MLD Sg Segaluid Intake & Barrage



20ML Kebun Cina Reservoir



125MLD Segaluid Water Treatment Plant Filters

Leading Water Infrastructure Specialist

LOH & LOH Constructions is the leading Water Specialist in Malaysia with a track record of:-

- 18 large dams, the most dams in Malaysia
- 2260MLD Semantan Intake, the largest water intake in Malaysia
- 950MLD Bukit Badong Water Treatment Plant, the largest WTP in Malaysia
- 3.0 diameter Pipe, the largest water pipeline in Malaysia.
- Over 300km of pipelines
- 40 large RC Reservoirs



Kinta RCC Dam
Height : 95m
Length : 750m

Water Dams

A Leader in Dams

Dams are high structures that hold large volumes of water and require strict quality control and expertise in their construction as any failure would result in a major catastrophe. LOH & LOH Constructions has a proven track record in dam construction and is widely recognized as the leading Malaysian Dam Specialist with a growing track record of over 18 completed and on-going dams. This includes the first Roller Compacted Concrete (RCC) Dam in Malaysia, the 95m high Kinta Dam, which involves the continuous placement of over 1.0 million cubic meters of concrete as well as the first dam removal in Malaysia — the LK2 Dam in Putrajaya.



LK2 in Putrajaya
Height : 12m
Length : 300m



Putrajaya Dam
Height : 25m
Length : 700m



**Kelinchi Dam
Main Dam**
Height : 72m
Length : 276m

Expert in all types of Dams

LOH & LOH Constructions has vast experience in all major types of Dams such as Earthfill dams, Rockfill dams, Concrete dams, Roller Compacted Concrete dams as well as Hybrid dams. These dams are utilized for various purposes such as water supply, recreation, flood control and some are multi-purpose. LOH & LOH Constructions' experience in dams enables us to value engineer dam designs such as the LK3 dam in Putrajaya which was completed ahead of schedule and provided significant savings to the client.



Hulu Terengganu Hydroelectric Project - 250MW

Puah Dam
Height : 70m
Length : 600m

Water Hydropower

Hydropower - The Cleaner Alternative

Hydrodams provide a cheap and stable source of power which is environmentally friendlier compared to other power sources. Malaysia has a large potential in hydropower with its high rainfall and suitable site terrain. Hydropower projects are often massive as large volumes of water are required to generate the required power continuously. This often comprises large reservoirs, high dams, tunnels, power houses, generator buildings and switchyards, often in isolated and challenging sites with steep high and hilly conditions, large rivers and surrounded by massive primary forest catchment areas.



Puah Spillway Concrete - 45,800 cubic meters



Diversion Tunnel



Tembat Hydrodam
Height : 28m
Length : 226m



Underground Power House

Hydropower Expertise

LOH & LOH Constructions' experience and expertise in high dams and complex water works have enabled us to be an ideal Hydropower contractor with a vast fleet of specialized plant comprising large capacity Excavators and the latest Articulated Trucks for the large volumes of earth and rock works and tough hilly hydropower project conditions. Our track record includes the 250MW Hulu Terengganu Hydropower project comprising the Puah Hydrodam and Tembat Hydrodam.



Bukit Badong Water Treatment Plant - 950 MLD

Water Treatment Plants

Water Treatment Plant Specialist

Water treatment plants (WTPs) are complicated facilities involving multiple water retaining structures and complex interconnecting pipeworks. LOH & LOH Constructions has amassed a wealth of experience in the coordination and construction of WTPs and is recognized as a WTP Specialist with a vast track record in large capacity WTP facilities. Complemented and supported by Water Engineering Technology, LOH & LOH Constructions has the ability to provide complete Civil & Structural and Mechanical & Electrical engineering solutions for WTPs.



Bukit Badong Water Treatment Plant
- Sludge Thickening Tanks



Segaluid Water Treatment Plant - 125 MLD



Rasa Water Treatment Plant - 250 MLD

Largest Water Treatment Plant in Malaysia

LOH & LOH Constructions has a strong proven track record in construction of WTPs and have been involved in many large capacity WTPs such as the 125MLD Rasa WTP, Sungai Selangor Water Supply Scheme, 125MLD Segaluid WTP, Sandakan Water Supply Scheme as well as the largest WTP in Malaysia, the 950MLD Bukit Badong WTP, Sungai Selangor Water Supply Scheme.



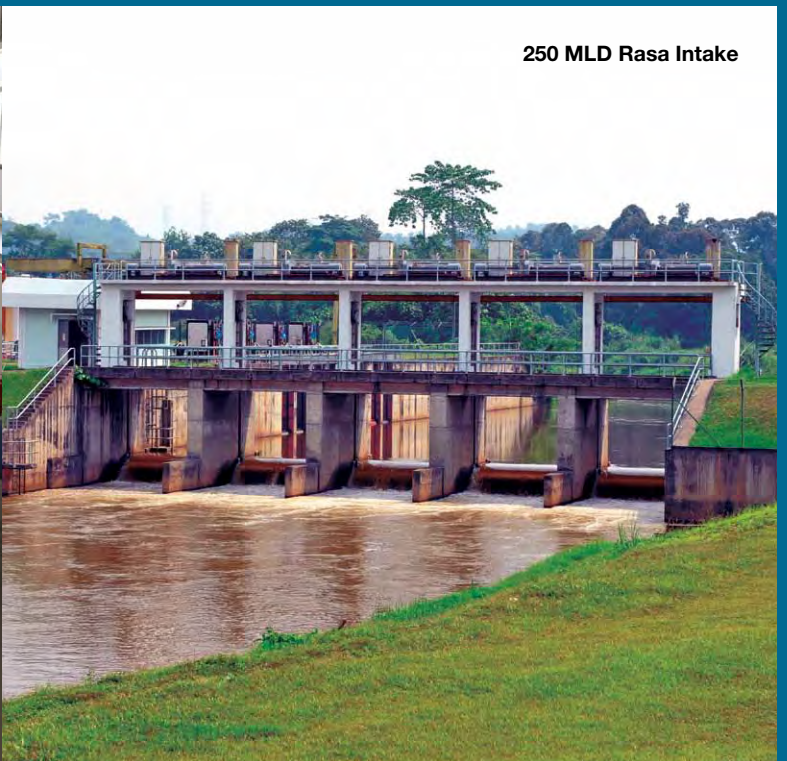
Water Intake & Pumping Stations

Working below the water line

Intakes and Pumping Stations are key components of a Water Supply system for the pumping and transfer of water, and require expertise in deep construction works next to water courses involving design and construction of temporary cofferdams and de-watering systems. LOH & LOH Constructions' expertise in these works is proven and it has the necessary dedicated plant and equipment for these essential temporary works.



UT2, Iskandar - 280 MLD Booster Pump Station



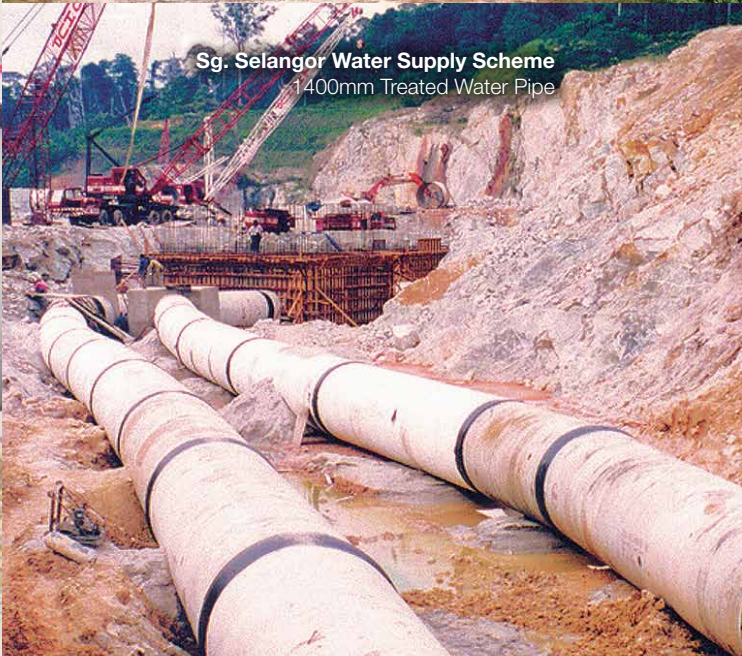
250 MLD Rasa Intake



Pahang - Selangor Raw Water Transfer Project
- 2260 MLD Semantan Intake

Largest Intake in Malaysia

LOH & LOH has an enviable track record in the construction of Intakes and Pumping stations and has been involved in major intakes and pumping stations such as the 280MLD UT2 Pump station, 250MLD Sg Segaluid Intake, 250MLD Sg Rasa Intake as well as the 2260MLD Semantan Intake, which is the largest intake in Malaysia and part of the Pahang-Selangor Raw Water Transfer Scheme.



Water Pipeline & Reservoirs

Largest Pipe in Malaysia

Pipes are used to convey water and Reservoirs are for storage. LOH & LOH Constructions has completed over 300km of pipelines with diameters up to a maximum of 3.0m which is the largest water pipe laid in Malaysia. Our reservoir experience includes the construction of over 40 large capacity reservoirs of various shapes and sizes such as the 44.5ML (Million Liters) Hammer Head Putrajaya Reservoir, 27ML Circular Sentul Hill Reservoir and 54ML Rectangular Iskandar Reservoir.



Beris Dam
Height : 40m
Length : 155m




Kg. Kayu Ara - River Channel Project

Water Flood Mitigation

Managing natural water

As a water specialist, LOH & LOH Constructions has been involved in key projects to manage excessive water and prevent floods which lead to damage of properties. These works involve the construction of retaining elements such as dams and ponds as well as large drainage structures to channel excessive water away from key areas. Some notable projects are the 40m high Beris Dam and Kg. Kayu Ara channelization project.



National Sewerage Scheme
Kangar Sewerage Treatment Plant
- 150000 PE + 37000 PE

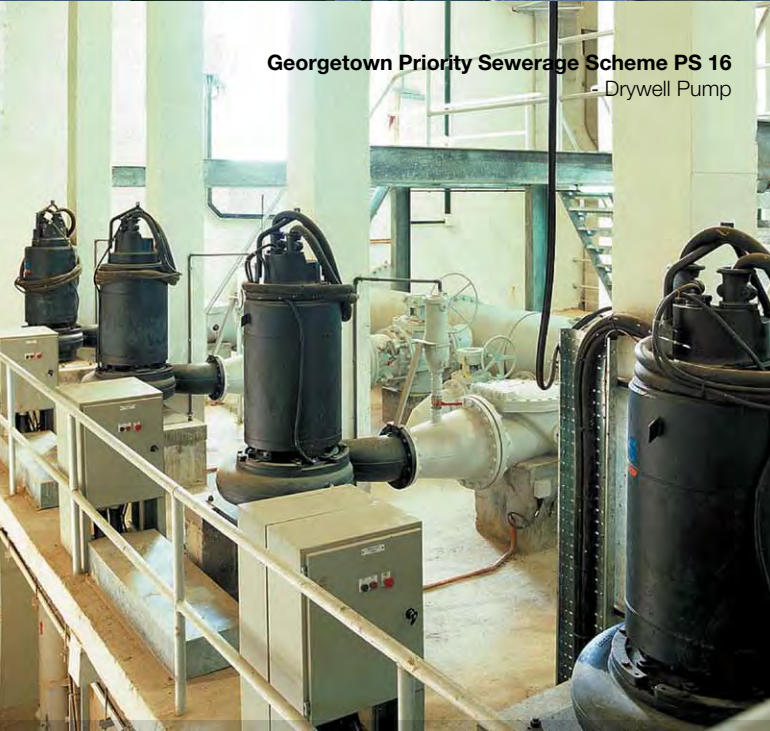
Sewerage

Complete Sewerage Solutions

As nations develop and populations increase, sewerage/wastewater management becomes more crucial. LOH & LOH Constructions has vast exposure in all aspects of sewerage treatment/management and can provide complete Sewerage Civil & Structural and Mechanical & Electrical engineering solutions in partnership with its sister company, Water Engineering Technology. This comprehensive engineering capability ensures that clients only liaise with a single sewerage solutions provider and optimize on interface and coordination issues.



150000 + 37000 PE Kangar Treatment Facility
- Sludge Thickeners



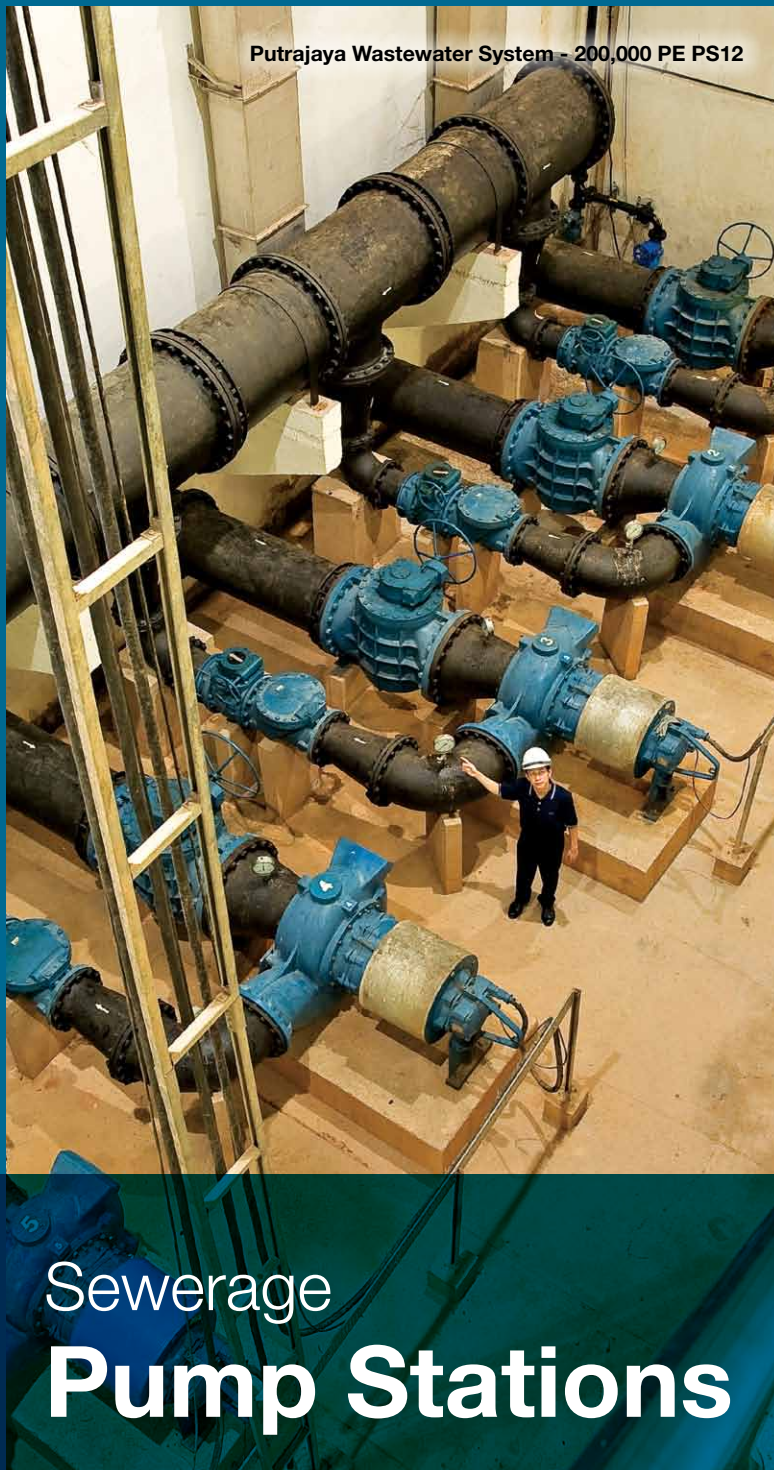
Georgetown Priority Sewerage Scheme PS 16
- Drywell Pump



Putrajaya 1000mm Ductile Iron Sewerage Pipe

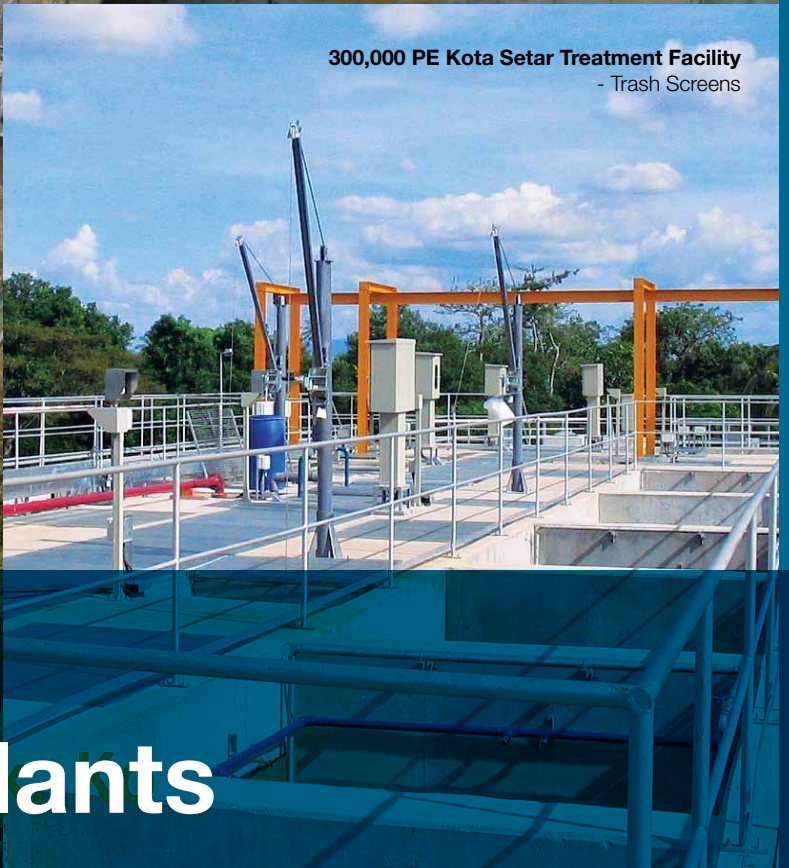
Complete Sewerage Infrastructure

Complete sewerage infrastructure involves large sewer pipelines to deep pump-stations to large capacity sewerage treatment facilities that treat the sewerage before it is discharged to existing water courses. LOH & LOH Constructions has this complete sewerage infrastructure experience, enabling economies of scale and complete solutions in full sewerage infrastructure schemes. Our track record includes construction of a 210,000PE Sewerage pump station, laying sewerage pipelines of up to 1500mm Diameter and completion of a 300,000PE Sewerage Treatment Facility.



Deep Structures in built-up areas

Sewerage Pumping Stations are used to pump sewerage from low collection points in built-up areas within cities to Sewerage Treatment facilities for treatment. As most Sewerage Pump Stations are within built-up areas, work often involves deep structures next to existing structures and require expertise in design and installation of temporary shoring works, deep excavation and dewatering systems. Some notable projects are the 200,000PE PS12 station in Putrajaya and the 210,000PE PS16 station in Georgetown, Penang.



Sewerage Treatment Plants

National Sewerage Scheme

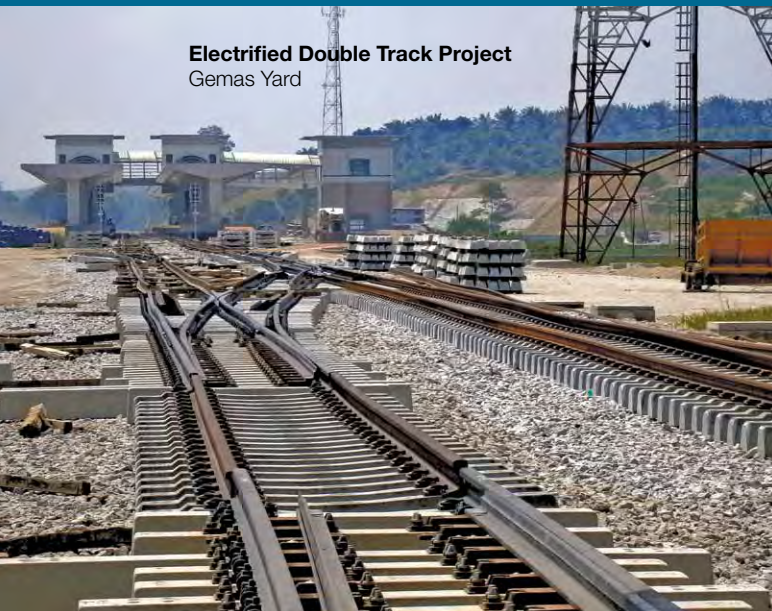
Sewerage Treatment Facilities are complicated facilities involving physical, chemical and biological processes to treat the sewerage before discharge to existing water courses. LOH & LOH Constructions has been involved in some of the largest Sewerage Treatment Facilities for Malaysia under the National Sewerage Scheme such as the 300,000PE Kangar Sewerage Treatment Facility and the 150,000PE Sludge Collection Facility + 37,000PE Sewerage Treatment Facility at Kota Setar.



Railway

Full Railway Capabilities

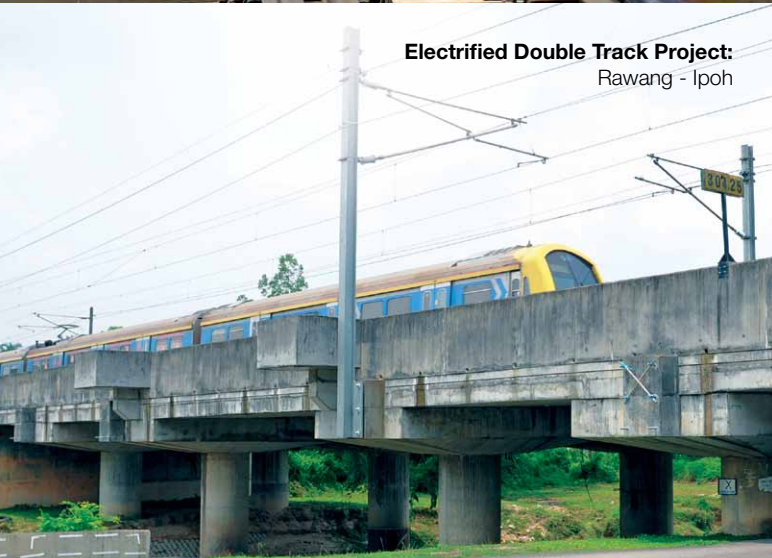
Railways are a key part of a developed nation providing cheap mass transport for growing cities and inter-linking key cities. LOH & LOH Constructions is a key major Railway contractor and has experience in full railway infrastructure from earth formation works, drainage works, railway bridge works, road over rail bridges, railway halts/stations, ballast laying works, track linking and laying works, or in short, full railway infrastructure.



Electrified Double Track Project
Gemas Yard



Rehabilitation & Strengthening Of Tracks:
Parit Buntar - Bukit Merah Railway Station



Electrified Double Track Project:
Rawang - Ipoh



Railway Infrastructure

Electrified Double Track (EDT) Projects

The Kunming – Singapore Electrified Double Track project is a massive railway link across Asia linking China to Singapore. LOH & LOH Constructions has completed over 60km of railway lines and has been involved in two significant portions of the Electrified Double Track: the Rawang-Ipoh EDT and Seremban-Gemas EDT. Besides the EDT, LOH & LOH Constructions has also completed the rehabilitation of the Parit Buntar railway line.



Bridge Over ERL Railway
- Precinct 7 Putrajaya



RB333 Victoria Bridge



Electrified Double Track Project:
Tg. Malim New Crossing

Railway Bridges

Rail Bridges and Road Over Bridges

Rail Bridges and Road over Rail Bridges require experience and strong engineering capabilities to construct as they often involve work next to or over existing live operational railways. LOH & LOH Constructions has completed over 20 rail and road over rail bridges including some of the longest and more complex bridges such as the 300m long RB333 Rail bridge, the Tg. Malim new interchange, Precinct 17 Bridge over ERL and the Tg. Malim new crossing.

Kepong Sentral Station



JB Sentral Station



Railway Stations

Designing & Building Railway Stations

Construction of Railway Stations require extra care and safety as the stations are often built next to existing live operational lines and require works over the existing lines such as roofs, walkways, bridges, etc. LOH & LOH Constructions' railway experience provides a strong platform for Railway station construction as well as design. Notable achievements include the Kepong Sentral Railway Station and the JB Sentral Station.



Putrajaya Bulk Earthworks
- 17,000,000 cubic meters



Multimedia University
- 5500 Students



Putrajaya Formation Works



Putrajaya Smart School
- 3150 Students

Others

Bulk Earthwork & Institutional Buildings

17,000,000 Cubic Meters of Earthworks

LOH & LOH Constructions is a leading bulk earthworks contractor with a modern fleet of large capacity earthworks plant and machinery. Our achievements include the bulk earthworks for the Administrative Capital of Putrajaya, where over 17 million cubic meters of earthworks was completed within 24 months. LOH & LOH is also highly specialised in Institutional buildings and have completed facilities for over 10,000 students such as the Multimedia University, Yayasan Saad College and the Putrajaya Smart School including support facilities such as multipurpose/sports halls, football fields, swimming pools, etc.

Modern Fleet



Professional Management



Dedicated Workshop & Store



Dedicated Site Supervision

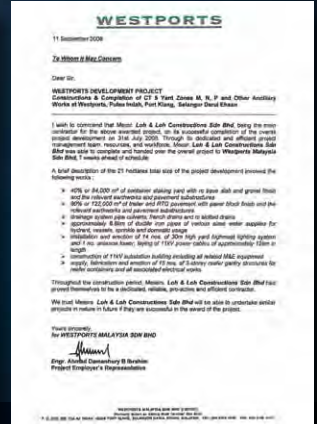
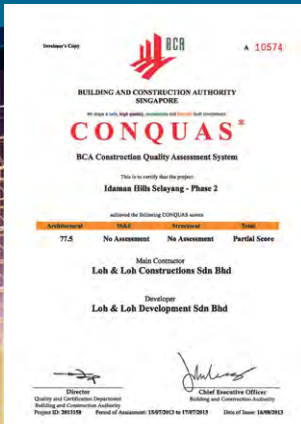
Core Resources

PLANT & MACHINERY

LOH & LOH Constructions believes in investing in technology to provide the latest, modern and most efficient plant and machinery for its projects. LOH & LOH currently has over 200 plants comprising of the latest Volvo Artic trucks, Komatsu Excavators, Dynapac compactors, Caterpillar bulldozers and many other materials and equipment for our specialized engineering works. Our plant and machinery is supported by a group of dedicated skilled mechanics and an 11 acre dedicated workshop in Nilai.

HUMAN TALENT

Human resources are a key strength of LOH & LOH Constructions. Our workforce comprises over 600 personnel led by our home-grown management which consists of personnel that have risen through the ranks and are all trained experienced infrastructure specialists. LOH & LOH Constructions constantly evaluates the training needs of our personnel to ensure that they are kept abreast of the latest construction methodology and technology.



Awards & Certifications

Over the years, LOH & LOH Constructions has attained numerous awards and recognition, including:

- ISO 9001:2000 Certification
- BCA CONQUAS Quality Award
- Medini Award
- TNB Safety Award
- Putrajaya Environmental Award
- Putrajaya Contractor Award
- CIDB Industry Award



Corporate Structure



CIVIL & STRUCTURAL



100% LOH & LOH
Constructions
Sdn Bhd

100% Jutakim
Sdn Bhd

100% 1 Seri Merdeka
Sdn Bhd

68% Quality Quarry
Sdn Bhd

MECHANICAL & ENGINEERING

100% Water
Engineering
Technology
Sdn Bhd

100% WET O&M
Sdn Bhd

PROPERTY DEVELOPMENT

100% LOH & LOH
Development
Sdn Bhd

100% Decorus Development
Sdn Bhd
(fka Loh & Loh Ikhtmas Sdn Bhd)

100% Green Heights
Developments
Sdn Bhd

100% Medius
Developments
Sdn Bhd
(fka Loh & Loh Sato Kogyo JV Sdn Bhd)

100% Turf-Tech
Sdn Bhd

100% Millenium
Creation
Sdn Bhd

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