







#### **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 Sewage Scheme — 300,000PE (Persons Equivalent) Kota Setar & Kangar Sewage 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** 

## SEWAGE

**Pumping Stations Treatment Plants** 

## **RAILWAY**

Infrastructure Bridges

**Stations** 

## **OTHERS**

Bulk Earthworks & Institutional Buildings



#### **Complete Water Solutions Provider**

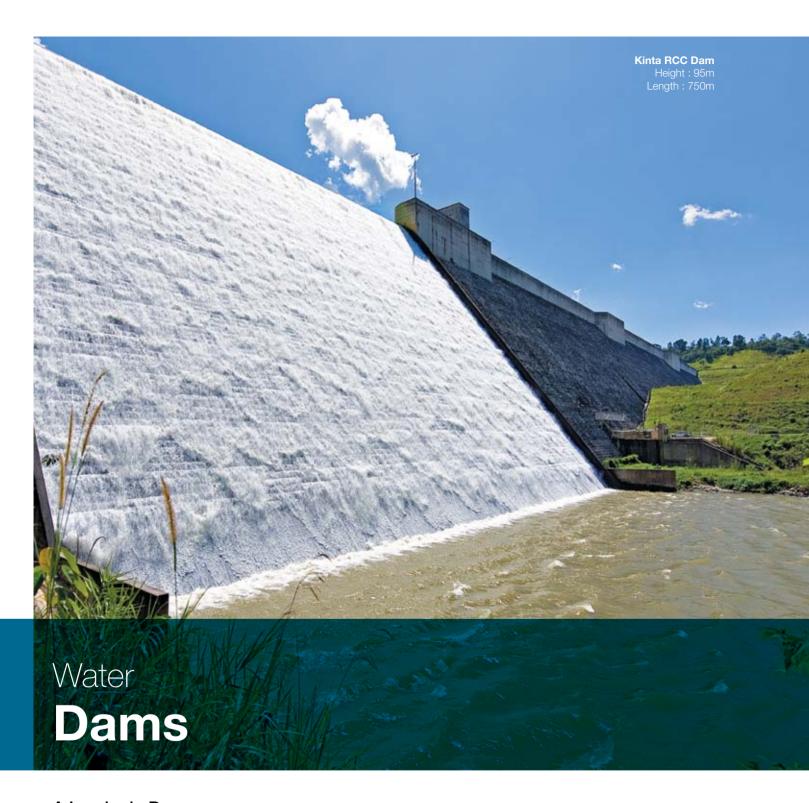
LOH & LOH Constructions is an Engineering, Procurement, Construction and Commissioning (EPCC) Contractor of complete upstream water infrastructure projects. Our vast experience in water infrastructure ensures that our EPCC solutions are reliable, economical and user focused. Supported by our sister company, 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.



#### **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



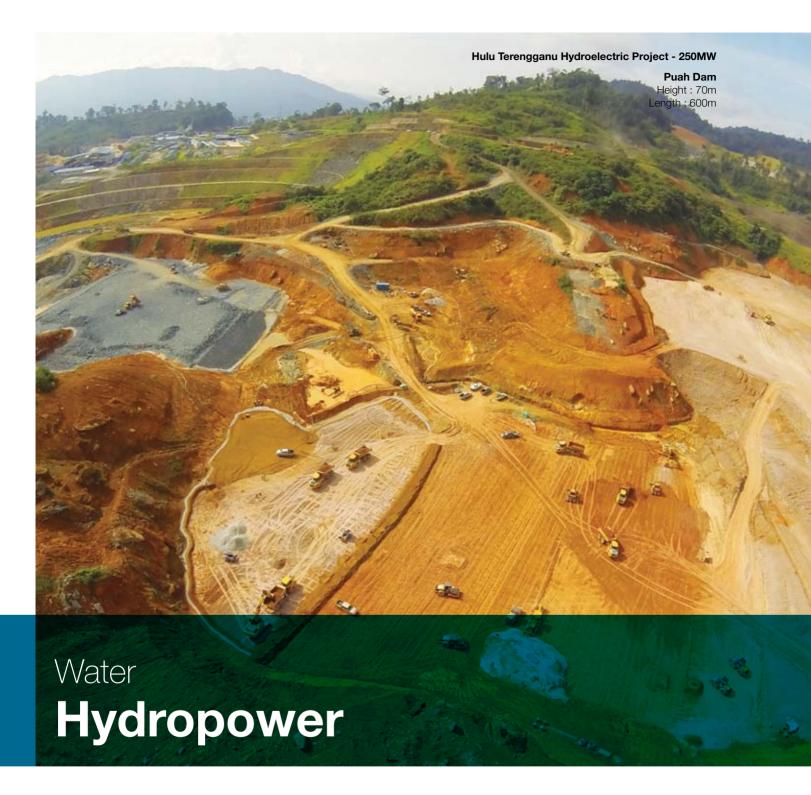
#### A Leader in Dams

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.



#### 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 and flood control while some are multi-purpose. LOH & LOH Constructions' experience in dams enables us to value engineer dam designs as in the LK3 dam in Putrajaya which was completed ahead of schedule and provided significant savings to the client.



#### 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. They often comprise large reservoirs, high dams, tunnels, power houses, generator buildings and switchyards, often in isolated and challenging sites with steep, large rivers and surrounded by massive primary forest catchment areas.



#### **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.



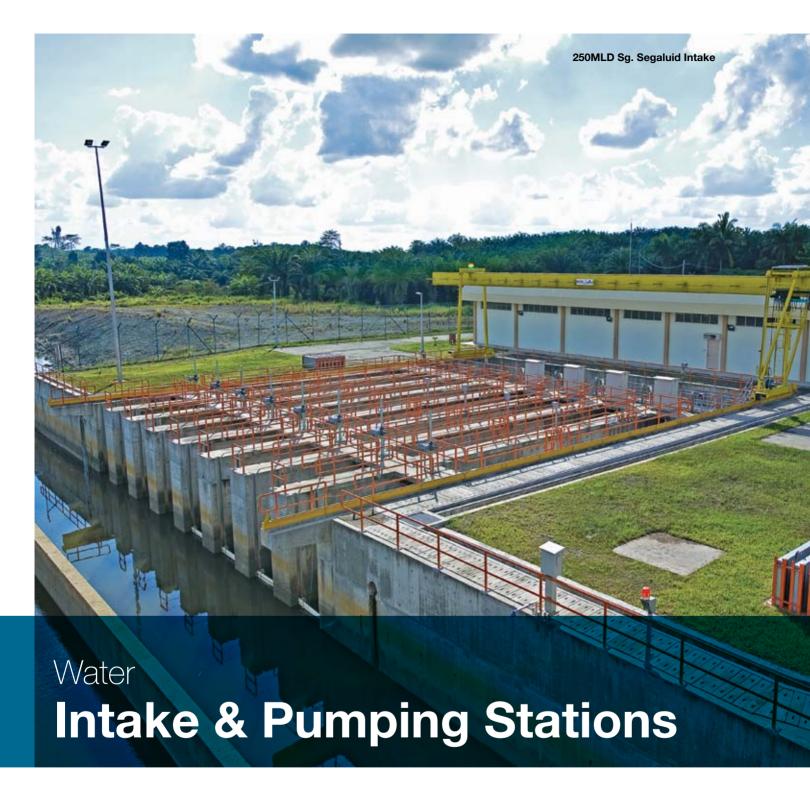
#### Water Treatment Plant Specialist

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.



#### Largest Water Treatment Plant in Malaysia

LOH & LOH Constructions has a strong proven track record in construction of WTPs and has 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).



#### 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 we have the necessary dedicated plant and equipment for these essential temporary works.



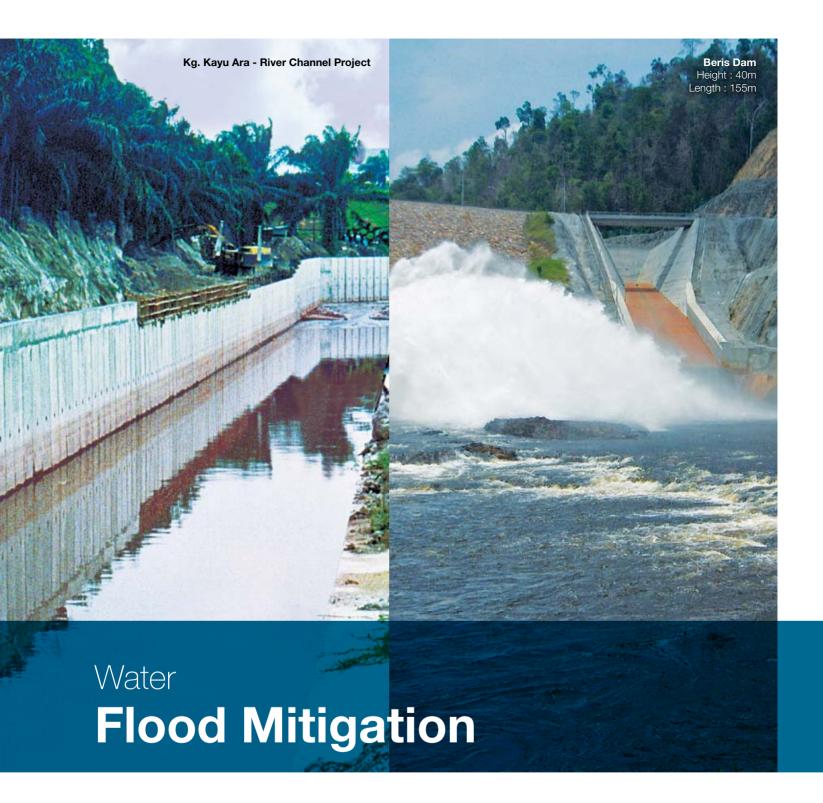
#### Largest Intake in Malaysia

LOH & LOH Constructions 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.



#### 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.



#### 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.



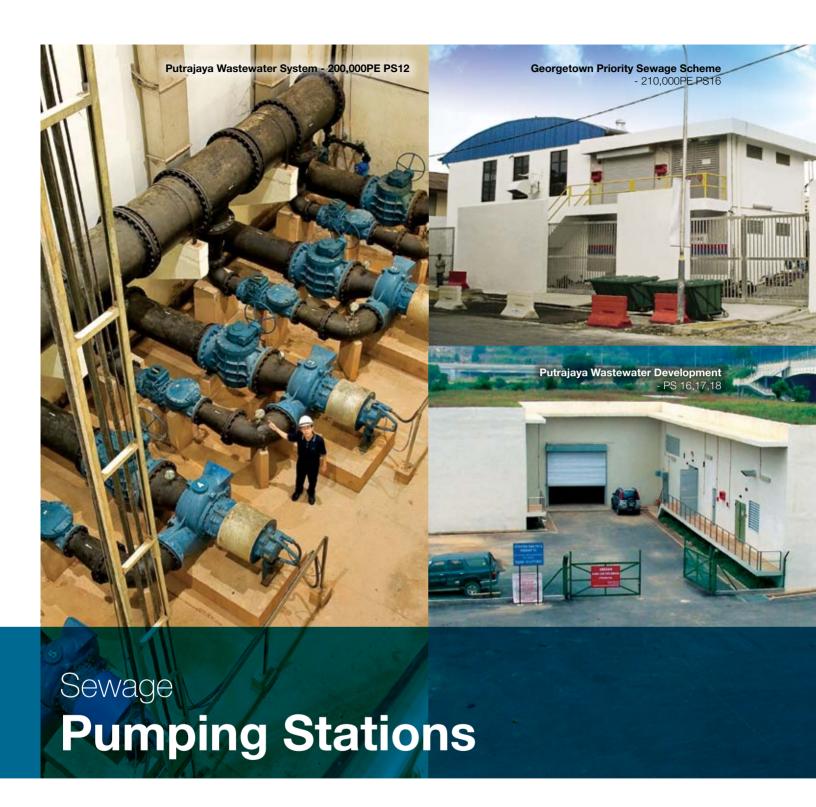
#### **Complete Sewage Solutions**

As nations develop and populations increase, sewage/wastewater management becomes more crucial. LOH & LOH Constructions has vast exposure in all aspects of sewage treatment/management and can provide complete Sewage 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 sewage solutions provider and optimize on interface and coordination issues.



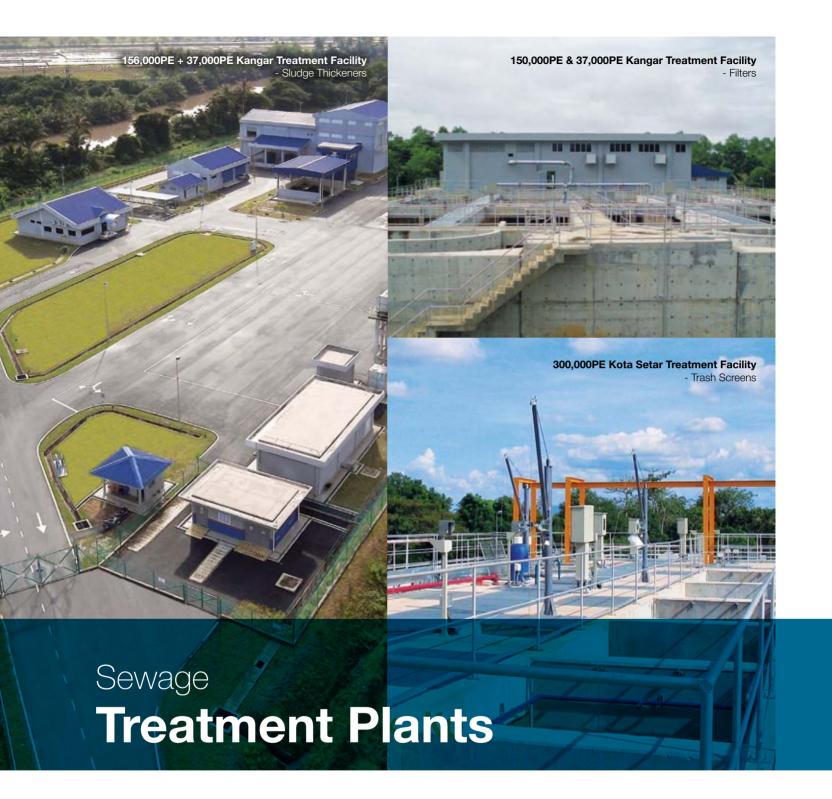
#### Complete Sewage Infrastructure

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



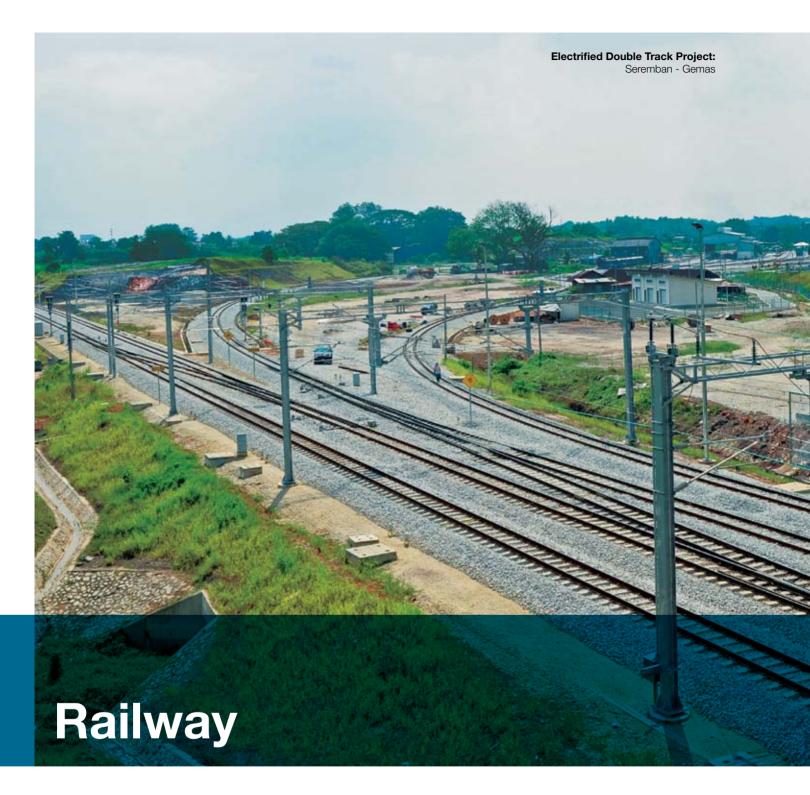
#### Deep Structures in built-up areas

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



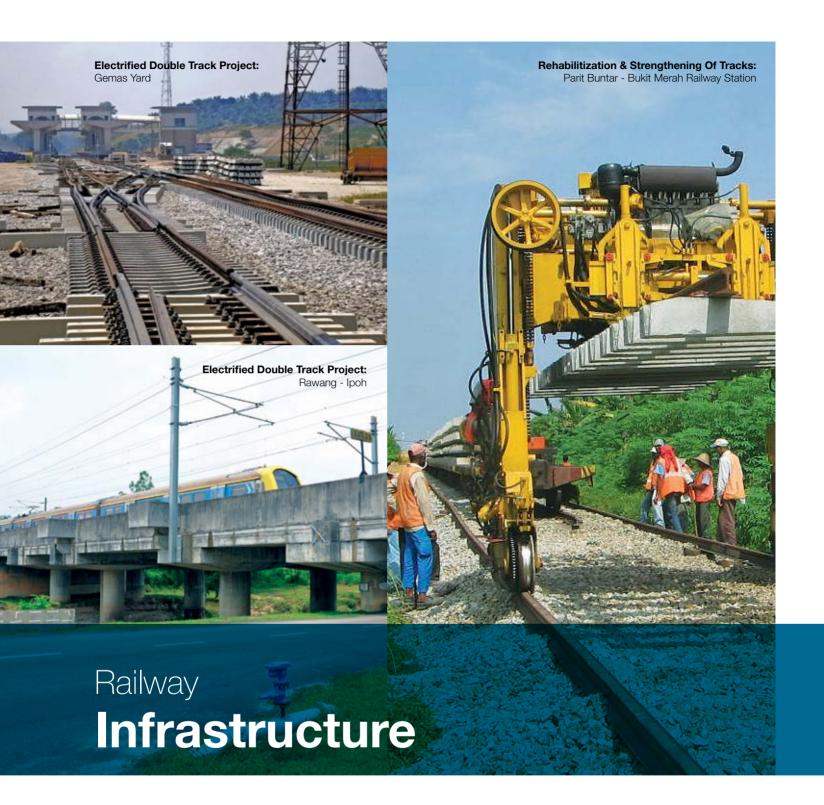
#### **National Sewage Scheme**

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



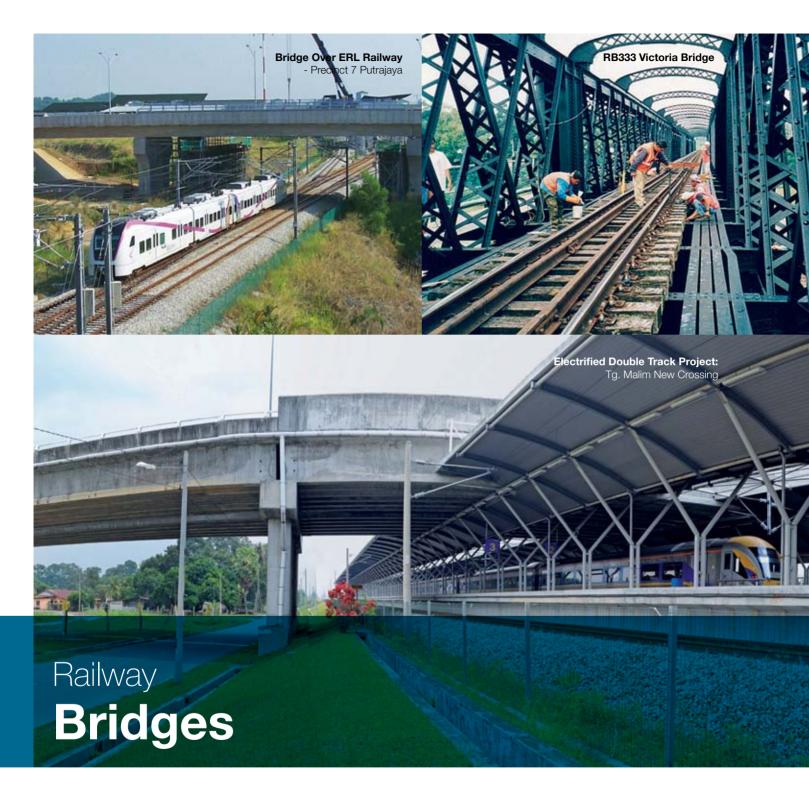
#### **Full Railway Capabilities**

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.



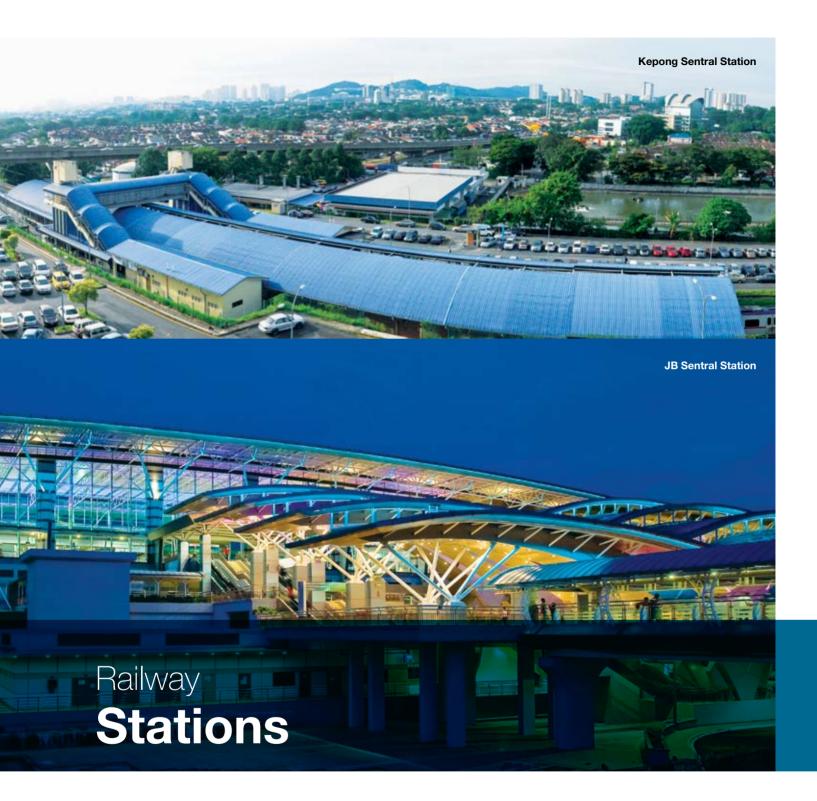
#### **Electrified Double Track (EDT) Projects**

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.



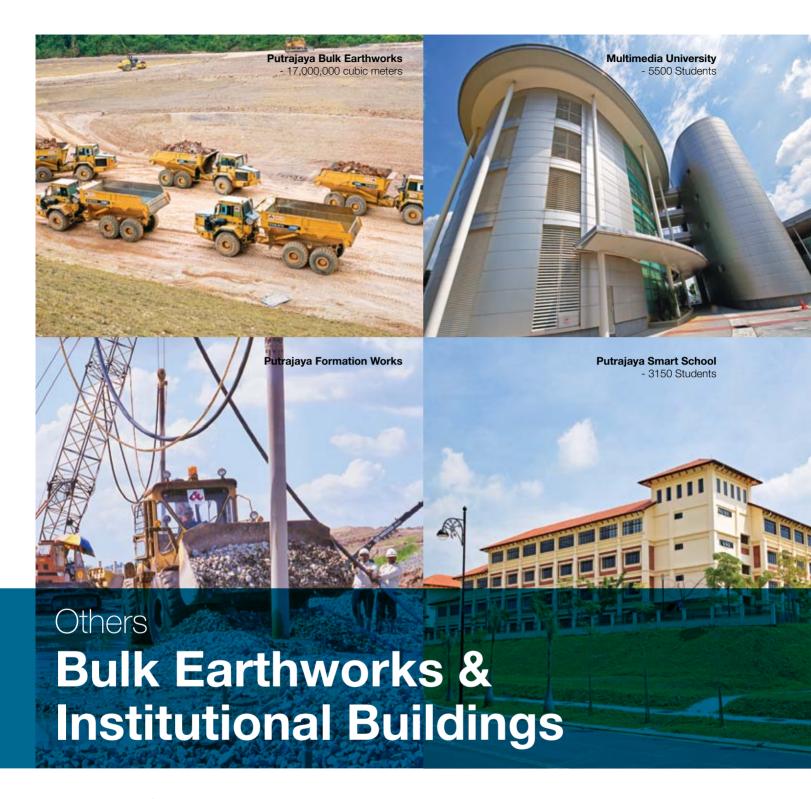
#### Rail Bridges and Road Over Rail Bridges

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.



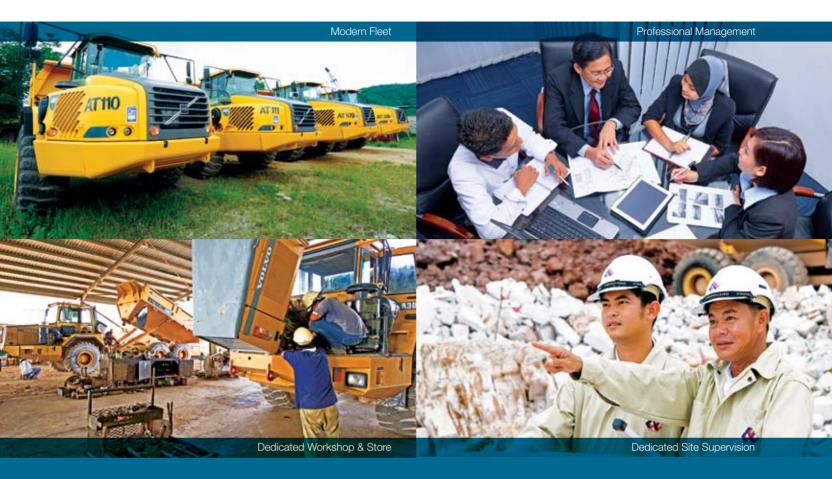
#### **Designing & Building Railway Stations**

Construction of Railway Stations requires extra care and safety as the stations are often built next to existing live operational lines and requires 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.



#### 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 Constructions is also highly specialised in Institutional buildings and has 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.



## 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 Constructions currently has over 200 plants comprising 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.



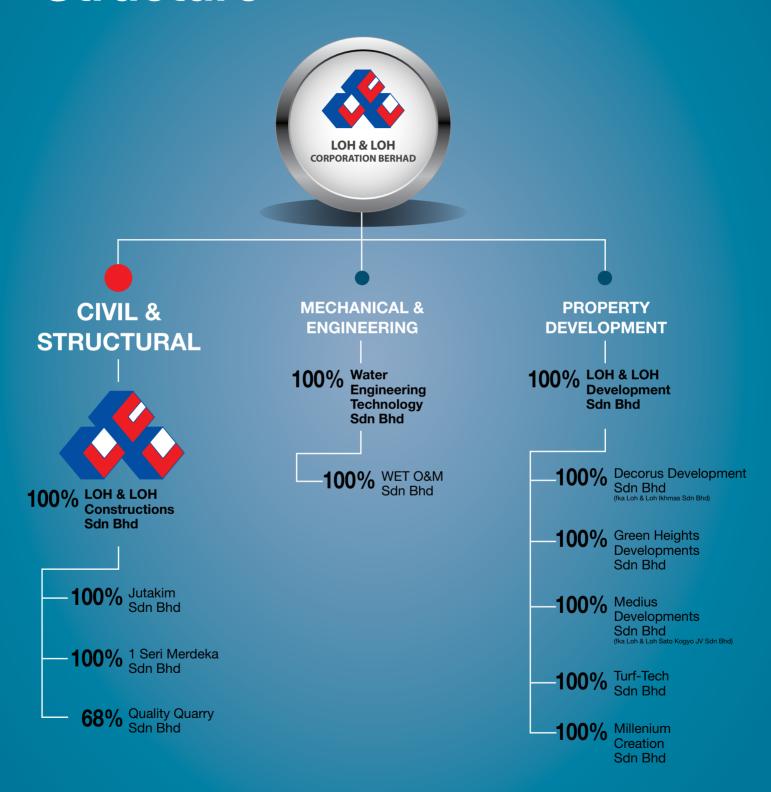
Over the years, LOH & LOH Constructions has attained numerous awards and certifications, including:

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



## Corporate

# Structure







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