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DRIVEN BY INNOVATION







Property Development



Infrastructure Concessions



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Starting off as a small construction outfit in 1976, we have steadily built our expertise in three core businesses; Engineering & Construction, Property Development and Infrastructure Concessions, achieving a market capitalisation of RM13 billion in 2017.

Today, we are proud to be identified as an innovative builder behind some of the world's firsts, namely the dual purpose Stormwater Management and Road Tunnel (SMART) and Malaysia's first MRT.



Systems and Trains







Hospital



Buildings



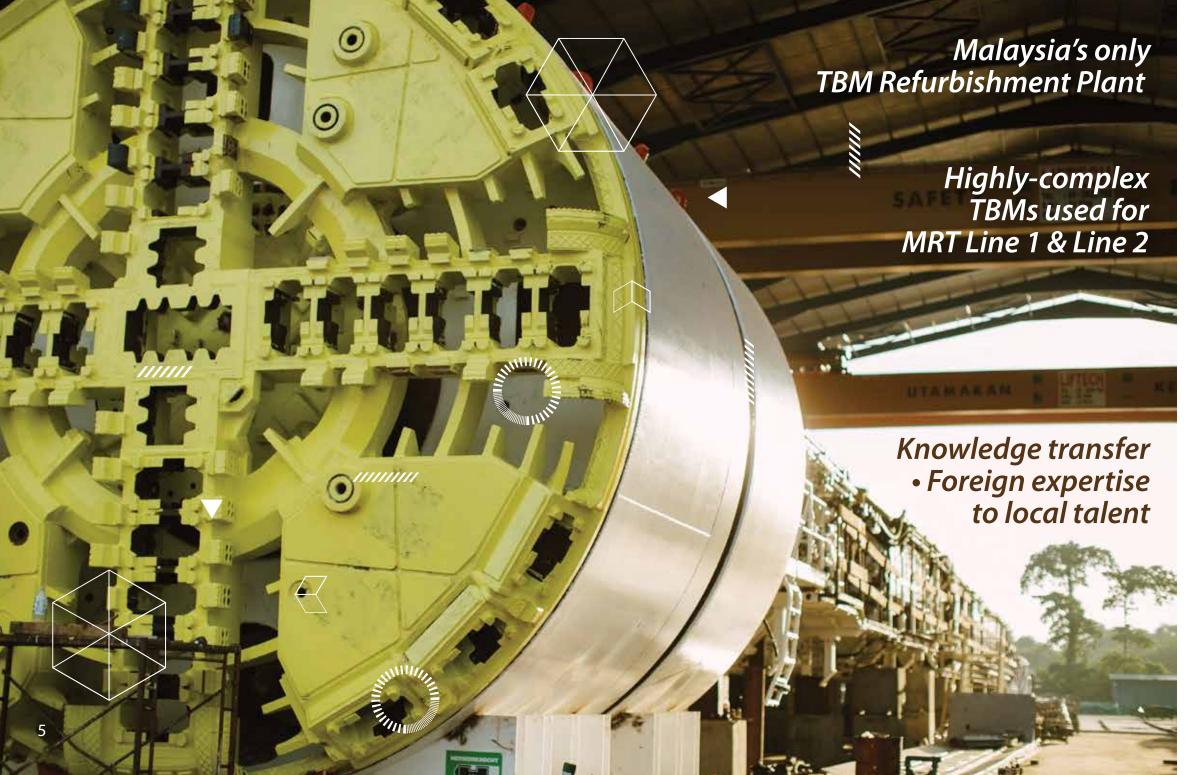
Power Plants



EMBRACING INNOVATION EXPERT TUNNELLERS

With proven expertise and extensive know-how in advanced tunnelling technology and techniques, we have demonstrated that tunnels need not be single-function structures.

This is evident in our track record of constructing tunnels for river and stormwater diversion as well as highways and railways in difficult geological conditions.



Using the Tunnel Boring Machine (TBM) under Kuala Lumpur city centre for the SMART project has led to another innovative invention that was successfully used in Malaysia's first MRT.

TUNNELLING THE MRT

The MRT Tunnel stands apart from other tunnelling projects around the world for its use of the Variable Density Tunnel Boring Machine (VD TBM) born out of the need to have a technologically advanced slurry machine that would manage the extreme karst in the ground.

With almost half the tunnel alignment sitting in Grade V karstic limestone, a twin mode TBM that operates in both slurry and 'EPB' modes was used. Six twin-mode VD TBMs were successfully deployed to undertake the 9.5km tunnelling through the limestone formation to build the country's first MRT line from Sungai Buloh to Kajang.



PIONEERING PDP

(Project Delivery Partner)

Gamuda pioneered the Project Delivery Partner (PDP) model for large-scale developments to be managed by a single entity. Recognising the time and cost benefits of this model, the Government engaged a Gamuda JV as the first PDP in the country for Malaysia's first MRT project.

In addition to ensuring the smooth implementation and successful completion of the project within time and cost, the PDP would bear the delivery risk and be solely accountable to the Government for the successful completion of the project.



PDP completed and handed over to the Government ahead of schedule by 2 weeks for Phase 1 (15 December 2016), and Phase 2 (17 July 2017) of MRT Line 1.

Given the successful completion, the JV was entrusted with the PDP role for MRT Line 2, which is targeted for completion in 2022.

MRT Line 1: 51 km (31 stations)
MRT Line 2: 52.2 km (37 stations)

Hamad International Airport, Qatar

Leading a consortium of experienced builders, Gamuda worked seamlessly with global project manager Bechtel. We were awarded the design and construction of the Hamad International Airport's airfield facilities, access tunnels and detention ponds. The airfield facilities were designed to cater to the latest large-body aircrafts with two runways, three parallel taxiways, aircraft parking aprons, drainage works and airfield ground lighting facilities.

Gamuda's first project in the Gulf States

Won multiple awards for quality and safety Teamed up with project manager Bechtel

329km Electrified Double Track Project (Ipoh - Padang Besar)

Stations • tunnels • depots • bridges • marine & land viaducts

Electrification • signallingcontrol & communications

GLOBAL PRESENCE

We have built our portfolio in designing, building and managing large scale and first of its kind infrastructure for Malaysia, including underground tunnels, water treatment plants, dams, ports, airports, highways and expressways.

We are also credited as among the largest intra-urban highway concessionaires in Malaysia.

We have since exported our experience and expertise in innovative engineering and complex infrastructure to the global stage across Vietnam, Taiwan, Qatar, Bahrain, Laos and India.

One such ambitious project that won us high acclaim is the **Yen So Urban Renewal Project in Hanoi, Vietnam,** the biggest and most sophisticated sewage treatment plant capable of treating **200,000m³** of waste per day.

As an emerging global player, our landmark projects include **Kaohsiung MRT** in Taiwan, **Panagarh-Palsit Highway & Durgapur Expressway** in India, **Sitra Causeway Bridges** in Bahrain and **Dukhan Highway** in Qatar.

19 developments across 8,326 acres **Total Gross Development** Value of RM75.1 billion Gamuda Land has consistently built a proven track record in delivering innovative, sustainable towns including Kota Kemuning, Horizon Hills, Valencia and Bandar Botanic – enabling us to win multiple awards. We have since spread our wings to recreate our success in Vietnam, Singapore and Australia.

MAKING GOOD SUSTAINABLE TOWNS

As a town maker, we create places that people can call home, want to be a part of, grow up and grow old in. When we create great gathering places; lay out the parks and lakes to open up to each neighbourhood; apply architecture and craft beautiful landscapes, we start to create a personality for the town. So people who live there will experience a real difference and want to be a part of it.

To make a town work, we need to get the places right. So we think not only of the home place but also the work place, park place, shopping place and learning place. These need to be mindfully planned and thoughtfully brought together in a 'town square', often by beautiful lakes with a waterfront and promenade, to give the town a sense of place. Connecting people with the community, nature and themselves.

An important part of our master planning is listening to what the land has to tell us. Our land has blessed us with many resources – rolling terrain, beautiful hills, lush wetlands. So we are able to work with nature. We bring the water that runs off the land to flow into natural ravines

to create lakes. We preserve the hills in our towns so we have hilltop homes just as we have lakeside homes. By working with nature, the essence of the place remains unchanged, only enhanced.

The common ground for every town is the community. That's why our planning principles – from the master planning to the architectural design – always promote connectivity to others.

Walkability and bike-ability of our streets are important to us. We want residents to experience a fascinating journey as they walk or bike from their front door to the town square.

The result of our holistic approach to town making is a collection of highly desirable properties such as **Kota Kemuning, Horizon Hills** and **Bandar Botanic** that continue to deliver value to our customers, in terms of a better quality of life and capital growth year after year. This is proven in the 5 consecutive years of us winning The **EDGE-PEPS Value Creation Excellence** award - the only developer to have done so in the country.



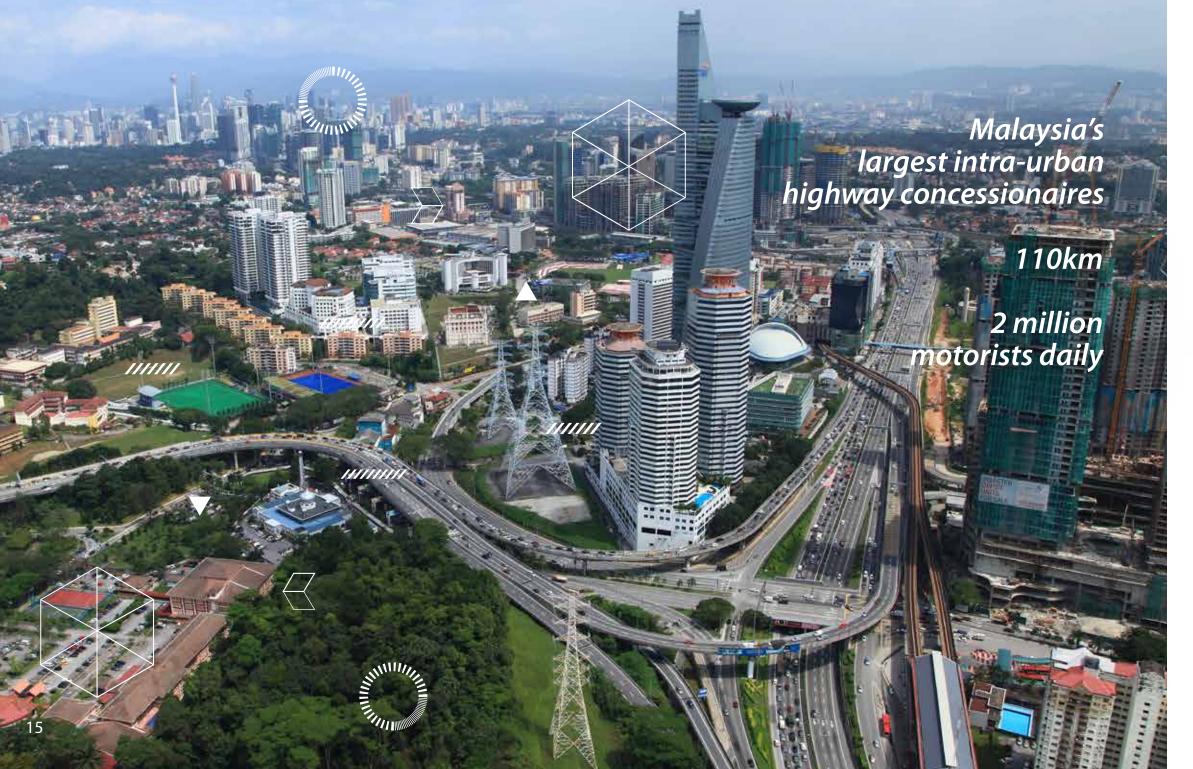
MALAYSIA'S FIRST AUTOMATED ROBOTIC IBS FACILITY

Gamuda Industrialised Building System (Gamuda IBS) is an initiative to lead the nation's construction industry towards a better future by adopting better efficiency, reducing wastages and delivery timelines.

Our facility in the vicinity of Malaysia's airport city, KL Aeropolis, is a fully automated robotic operation which utilises integrated 3D Building Information Modelling (BIM) and Common Data Environment (CDE) to customise designs, while the complete integration of the systems with Enterprise Resource Planning (ERP) ensures precise control over the entire production flow.

This plant, ready since June 2016, produces reinforced concrete slabs, columns, beams and wall panels to meet the needs of Gamuda's property projects.

Gamuda IBS is now constructing a second plant in Banting, about 30km away from the existing plant and double the size.



INFRASTRUCTURE CONCESSIONS

To spur the growth of our young nation, we built and currently operate some of Malaysia's s most significant infrastructure projects covering highways, expressways, dams and water treatment plants.

These include the **Damansara Puchong Highway (LDP), Shah Alam Expressway (SAE) and the Western Kuala Lumpur Traffic Dispersal Scheme (SPRINT).**

Our water concessions, the Sungai Selangor and Sungai Tinggi Dams as well as the Rasa and Bukit Badong Water Treatment Plants provide **2,000** million litres of potable water per day (mld) to over 3 million people in Selangor and the Federal Territories of Kuala Lumpur and Putrajaya.



SUSTAINABILITY

At Gamuda, ensuring sustainability has become part of our 'enlightened self-interest', premised on the belief that to move ahead as a business, we need to invest in our people to build the nation together in a responsible manner.

Various initiatives are in place towards talent development - starting from the ground up, our signature programme is aimed at providing theoretical knowledge and practical training in technical and engineering skills to school leavers in collaboration with government agencies.

These youths are mostly employed by Gamuda, who then gain from on-the-job training and knowledge transfer from our professional and experienced workforce. Their skills are then further enhanced and become exportable.

To facilitate the development of more breakthrough projects for Malaysia, the Gamuda Scholarship Award is an important talent building initiative that offers mentoring during the course of study and a career opportunity in our nation building efforts.

A first in Malaysia, our Enabling Academy under Yayasan Gamuda was set up to train school leavers and tertiary graduates on the autism spectrum to achieve gainful and sustainable employment at Gamuda and in other like-minded organisations. We view the hiring of people on the autism spectrum as an exciting opportunity to create an open-minded work culture where employees understand and appreciate the benefits of workforce diversity.

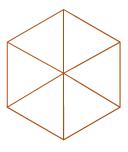
The Gamuda workforce is vibrant, where social equity and gender balance are valued, and with equal opportunities for all.



PROJECT	CLIENT	DURATION	SCOPE OF WORKS
Pan Borneo Highway, Malaysia	Ministry of Works, Malaysia	2016 - 2020	89.4km (Pantu junction to Batang Skrang)
Underground works for MRT Sg Buloh - Serdang - Putrajaya Line, Malaysia	Mass Rapid Transit Corporation, Malaysia	2016– 2022	13.5km
Elevated works for MRT Sg Buloh - Serdang - Putrajaya Line, Malaysia	Mass Rapid Transit Corporation, Malaysia	2015 – 2022	Total 52.2km (38.7km elevated)
Underground works for MRT Sungai Buloh - Kajang Line, Malaysia	Mass Rapid Transit Corporation, Malaysia	2011 – 2017	9.5km
Elevated works for MRT Sungai Buloh - Kajang Line, Malaysia	Mass Rapid Transit Corporation, Malaysia	2011 – 2017	Total 51km (37.5km elevated)
Yen So Park Urban Renewal Project, Vietnam	Hanoi People's Committee, Vietnam	2009 – 2012	• 200mld • Serves 900,000 people
Electrified Double Track (Ipoh – Padang Besar), Malaysia	Ministry of Transport, Malaysia	2008 – 2014	329km
The Replacement of Sitra Bridge, Bahrain	Ministry of Works & Housing, Bahrain	2006 – 2009	• 4km • Dual 3-lane carriage freeway
New Doha International Airport • Runway (a.k.a Hamad International Airport), Qatar	New Doha International Airport Steering Committee	2005 – 2011	• 2 runways: 4.9km & 4.2km • Multiple taxiways • 2 concrete tunnels
Dukhan Highway (Shahaniya to Zekreet), Qatar	Public Works Authority	2005 – 2009	42.5km
Stormwater Management and Road Tunnel (SMART), Malaysia	Department of Irrigation and Drainage Malaysia & Malaysian Highway Authority	2003 – 2007	9.7km road and Stormwater Tunnel
Kaohsiung Metropolitan Mass Rapid Transit System, Taiwan	Kaohsiung Rapid Transit Corporation Taiwan	2002 – 2008	3.86km
Panagarh-Palsit & Durgapur Expressway, India	National Highway Authority of India	2001 – 2005	128km (64km + 64km)

	DEVELOPMENTS	SIZE (ACRE)
DPMENT	MALAYSIA	
	Kota Kemuning	1,854
	Valencia	278
	Bandar Botanic	1,242
	Horizon Hills	1,228
	Jade Hills	338
	Madge Mansions	2.2
	The Robertson	3
	Gamuda Biz Suites	3.6
PROPERTY DEVELOPMENT	HighPark Suites	4.9
	Gamuda GM Klang	34
	Bukit Bantayan Residences	18
	Kundang Estates	89
	Gamuda Gardens	812
	twentyfive.7	257
	Gamuda Cove	1,530
	OVERSEAS	
	Gamuda City, Vietnam	426
	Celadon City, Vietnam	203
	661 Chapel St., Australia	0.35
	GEM Residences, Singapore	3













ENGINEERING CONSTRUCTION

PROJECTS LIST







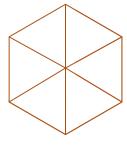
NS	PROJECT	CLIENT	DURATION	SCOPE OF WORKS
CONCESSIONS	Sungai Selangor Dam Water Supply Scheme	Selangor State Government	2000 – 2005	 110m high regulating dam with storage capacity of 234 million cubic meters 2,000 mld/day water treatment plant
INFRASTRUCTURE	Sprint Highway	Ministry of Works Malaysia	1999 – 2004	26.5km, dual 3-lane highway, 15 interchanges, 3 toll plazas, 700m twin bored tunnel
	Lebuhraya Damansara Puchong (LDP)	Ministry of Works Malaysia	1996 – 1998	40km, dual 3-lane highway, 19 interchanges, 4 toll plazas
	Shah Alam Expressway	Ministry of Works Malaysia	1994 – 1996	34.5km, dual 3-lane highway, 12 interchanges, 3 toll plazas

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