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LIST OF RAIL, ROAD, HIGHWAY AND MAJOR INFRASTRUCTURE FOR LAND DEVELOPMENT PROJECTS UNDERTAKEN BY SMHB

* updated March 2023

	Project	Client	Road Type/ Development Area	Year
1.	Upgrading of Bridge Across Sg. Marang at FT003 Route Kuala Terengganu – Kuantan Road, Marang, Terengganu	GPQ – LGBE Joint Venture	R5	2021-2025
	Design and construction of 2.5 kilometres upgrading existing road from two lane single carriageway to four lane dual carriageways			
	Design and construction of new bridges, elevated structure and ramps as the following:			
	 Bridge over Sungai Marang Interchange bridge over junction between Jalan Kuala Terengganu Marang (Route FT003) and Wakaf Tapai (Route T02). Elevated structure connecting bridge over Sungai Marang and Interchange Bridge over junction between Kuala Terengganu Marang (Route FT003) and Wakaf Tapai (Route T02) including entry and exit ramp at appropriate location to allow smooth flow and accessibility. Bridge widening from two (2) lane single-carriageways to four (4) lane dual carriageways over Sungai Rinting. Design and construction of Vehicular Box Culvert (VBC) and culvert where required. Design and construction of the junction, intersection, service road and U-turn where required based on traffic study done by the registered traffic consultant. Design and construct of new access roads and and/or upgrading existing access roads to any affected residential area, residential houses, shop area where required. Demolition of existing structures including motorcycles shelters, bus stops, fencing, pedestrian crossing facilities and etc, design and construction to replace existing structure and building as per local authorities' requirement if required. Provision in construction of all necessary temporary river crossing, road diversion and temporary access road for the proper and expeditious execution of the 			
2.	contract. Construction of A New Entrance, Fencing and Gateway, and Other Related Works at Istana Munarah, Seremban, Negeri Sembilan	Jabatan Kerja Raya Negeri Sembilan	U1	2021-2024
	 New access road at the junction of existing road approximately 200 m length and 7 m width. Construction of 2-types of new fencing, a Decorative Wall Fence approximately 321 m and another is Anti- 			



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	Project	Client	Road Type/ Development Area	Year
	climb Wall Fence approximately 708 m and height for both fences are 2.4 m (from ground level). Construction of Gateway and Guard Post.			
3.	Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5A: Raub Bypass (9.6 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2017)
4.	Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5B: Kg. Orang Asli Sg. Chandan ke Kg. Asap (16 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	R5	8/2009 (constructi on starts: 2017)
5.	Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5C-1: Kg. Asap ke Kg. Sertik (16 km)	Kementerian Kerja Raya Cawangan Kejuruteraan Jalan dan Geoteknik	Raya Cawangan Kejuruteraan Jalan	
6.	Raub to Bentong (Package 5) of the Central Spine Road, Pahang – Package 5D: Bentong Bypass (10.3 km)	Kementerian Kerja R5 Raya Cawangan Kejuruteraan Jalan dan Geoteknik		8/2009 (constructi on starts: 2015)
7.	Projek Mass Rapid Transit Laluan 2: Sungai Buloh-Serdang-Putrajaya (SSP) – Southern Kuchai Lama-Serdang Detailed design and construction supervision of Packages V204, V205, V206, V207, S204, S205 and S206.	MMC Corporation Berhad – Gamuda Berhad JV	MRT	2014-2021
8.	East Klang Valley Expressway (Kuala Lumpur Outer Ring Road) Design of 16 nos. of Bridges; specifically, Ampang Interchange including Ampang Spur Road, and Ukay Perdana Interchange.	Ahmad Zaki Resources Berhad	Expressway	2013-2018
9.	Master Plan for Pengerang Petroleum and Maritime Industrial Park in Teluk Ramunia, Pengerang Johor Development of Land Use Master Plan for 1,700 acres to be reclaimed from the sea for an integrated chemical logistic park.	Spektrum Budi Sdn Bhd (Subsidiary of Benalec Sdn Bhd)	1,700 acres	2012-2013
10.	Klang Valley MRT – Plaza Phoenix to Kajang, Selangor (in association with Mott MacDonald (Malaysia) Sdn Bhd, H&T Associates Sdn Bhd, VERITAS Architects Sdn Bhd, Khairi Consult Sdn Bhd, T&T Konsult Sdn Bhd, KL Prima Sdn Bhd, MMSB Consult Sdn Bhd and Zaidun-Leeng Sdn Bhd) Detailed design of Packages V6-V8, construction	MMC Gamuda KVMRT (PDP) Sdn Bhd	MRT	2011-2017
11.	supervision of Packages V5-V8 including Kajang Depot. Lojing Highland Resort Development in Ulu Nenggiri, Gua Musang, Kelantan Consultancy services to obtain planning and EIA approval for development on a land area of 3,713 hectares and detailed design of earthworks and 5 km access road from Simpang Pulai-Gua Musang Highway.	Lojing Highland Resort Development Sdn Bhd	3,713 hectares	2011-2012



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	Project	Client	Road Type/ Development Area	Year
12.	Infrastructure Works for Cherating Mainland Coastal Tourism Development at Kuantan, Pahang	East Coast Economic Development	217 acres, 744 acres	2010-2012
	Road improvement to tourism development areas in Cherating (217 acres) and Chandor (744 acres). Detailed Design and Supervision.	Council (ECERDC)		
13.	Central Spine Package 3 – Raub to Bentong	East Coast	R5	2009-2014
	Feasibility study and detailed design of 45 km Federal Route 8 roads upgraded to 2-lane dual carriageway.	Economic Development Council (ECERDC)		
14.	KLIA 2 - New LCC Terminal and Associated Works, Sepang, Selangor – Utilities Package, Selangor	Malaysia Airport Holdings Berhad	-	2009-2011
	Detailed design, construction supervision and utilities coordination and clash analysis.			
15.	Universiti Putra Malaysia Development Master Plan 2008	Arkitek Urbanisma Sdn Bhd	-	2009
	Traffic study and recommended options to improve traffic flow during peak hours within UPM.	Suil Bild		
16.	Feasibility Study for Mersing to Kg. Sedili Besar New Coastal Road	Majlis Pembangunan Wilayah Ekonomi	R3	2009
	Feasibility study and EIA for a new coastal road of 65 km long to enhance tourism activities along that coastal belt.	Pantai Timur (ECERDC)		
17.	Expansion of Masjidil Haram, Makkah, Saudi Arabia	Hijjas Kasturi Associates Sdn Bhd	-	2008
	Conceptual engineering design of traffic tunnel, pedestrian tunnel, utility tunnel, wastewater, solid waste, water supply/recycle water and drainage.	Associates Sull Bild		
18.	Internal Roads for Politeknik Hulu Terengganu	Jabatan Kerja	-	2008
	Concept design of roadworks, earthworks, drainage system and utility supply.	Raya, Malaysia		
19.	Bukit Lanjan-Jalan Duta Parapet Upgrading	PLUS Bhd	Expressway	2007
	Study and recommendations to strengthen metal parapet along sections of the North Klang Valley Expressway.			
20.	Interchanges along Johor Bahru Inner Ring Road for Iskandar Malaysia	South Johor Investment	U5	2007
	Detailed design and construction supervision of an elevated bridge over the existing signalised Jalan Yahya Awal/Johor Bahru Inner Ring Road junction and an elevated Jalan Abu Bakar Interchange and associated works.	Corporation		
	Dual two-lane carriageway bridge crossing Jalan Yahya Awal/Johor Bahru Inner Ring Road.			
	 A Trumpet Interchange for Johor Bahru Inner Ring Road traffic turning east and west to Jalan Abu Bakar with a split ramp to the future Central Malaysian Properties Sdn Bhd's development. 			
	 Dual two-lane carriageway multi-span viaduct crossing Jalan Sg. Chat/Johor Bahru Inner Ring Road junction. 			













	Project	Client	Road Type/ Development Area	Year
	Single-lane elevated ramp for traffic from Jalan Abu Bakar turning to Johor Bahru Inner Ring Road.			
21.	Nam Theun 1 HEP, Laos Detailed design of access road to hydropower dam project. Realignment of main access road (5.5km) and access road to the right bank for construction of the diversion tunnel and for excavation of the dam foundation.	Maunsell Ltd	-	2007
22.	Pahang to Selangor Raw Water Transfer Project Detailed design of access roads to tunnel adit, dam and intakes for water supply project.	Kementerian Tenaga, Air dan Komunikasi, Malaysia	-	2007
23.	Grade Separated U-Bar Interchange for Jalan Tebrau/Jalan Harimau, Jalan Tebrau/Jalan Air Kuning, Jalan Lingkaran Dalam/Jalan Tebrau, Jalan Lingkaran Dato' Sulaiman, Johor. Design of bridge utilizing pre-tensioned pre-cast U5 beam of 1 m high and post-tensioned pre-cast U beam of 1.9 m high of various spans.	Jabatan Kerja Raya Malaysia, Cawangan Jalan	U5	2005
24.	Township Development in Kuantan, Pahang Environmental impact assessments, environmental monitoring programme.	Kurnia Setia Development Sdn Bhd	600 hectares	2005-2006
25.	Gerbang Selatan Bersepadu Project – CIQ Complex Road Network Detailed design and construction supervision of an entry and exit road networks to the new Customs, Immigration and Quarantine (CIQ) Complex at Johor Bahru. Involving a three-tier interchange at Jalan Lingkaran Dalam/Jalan Lumba Kuda junction and light vehicle ramps connecting CIQ to the future dedicated highway to Senai Airport. There are in total 7 bridges, 8 vehicular box culverts, 110,000 m² of road pavement and 3,100 m² of retaining wall in this project. Three PUB pipelines are affected and need to be relocated/protected.	Gerbang Perdana Sdn Bhd	U5, U3 & U1	2002-2008
26.	Master Infrastructure Study: Karambunai Peninsular Development, Sabah Detailed design and construction supervision of Phase 1; comprising access road (2 km), drainage, sewerage, water supply and telecommunications.	Karambunai Resorts Sdn Bhd	1,500 acres	2001
27.	Jalan Cheras/Phoenix Plaza Interchange, Kuala Lumpur, Malaysia Detailed design and construction supervision of a grade separated interchange at Jalan Cheras/Taman Len Seng junction. It involves 2 pre-stressed cellular deck concrete bridges, 1 reinforced concrete cellular deck concrete bridge and 2 pre-cast segmented arch underpasses and 16,000 m² of retaining walls.	Dewan Bandaraya Kuala Lumpur/MTD Construction Bhd	U5	2001-2009
28.	Common Utility Tunnel (CUT) for Putrajaya Development	Putrajaya Corporation	10,905 m Utility Tunnel	1999-2005



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	Detailed engineering design of an underground tunnel which housed and provides a protected environment for power and telecommunication cables, potable water supply pipes, gas pipes and telemetry cables.			
	Length: Primary CUT 7,633 m, Secondary CUT 1,154 m, Tertiary CUT 2,118 m. Total 10,905 m.			
29.	Putrajaya Bus and Taxi Terminal – Precincts 1 & 9 Putrajaya	Perbadanan Putrajaya	Public Transportation	1999-2000
	Detailed engineering design and construction supervision of civil and structural, mechanical and electrical and testing and commissioning of the terminals.		Terminal	
30.	Integrated Utility Planning and Design Consultant for Phase 1A and 1B of Putrajaya Development	Putrajaya Holdings Sdn Bhd	4,400 hectares	1997-2000
	Utility planning and design coordination for Putrajaya Township comprising government complex, residential areas, comprehensive public transportation network and infrastructure.			
31.	Shah Alam to Bandar Baru Batu Arang Trunk Road, Phase 1 & 2, Selangor, Malaysia	Oxford Alliance Sdn Bhd	U5	1996-2002
	PED, EIA study, detail design and construction supervision for 16 km single 2-lane carriageway.			
32.	Internal roads for Universiti Malaysia Sabah, Malaysia Detailed design and HOD during construction of the project.	Syabas Hakikat Sdn Bhd	U1	1996-1999
33.	Utilities Coordination Services and Preparation of Utility Master Plan	Kuala Lumpur International Airport	-	1996-1998
	Detailed design of five underground utility systems and related facilities (potable water distribution, recycle water distribution, medium and low pressure gas distribution, telecommunication ducts and wastewater collection), design review of wastewater treatment facilities, feasibility study of solid waste system, utility coordination, construction supervision and preparation of airport utilities master plan.	Berhad		
34.	Kajang Traffic Dispersal Ring Road Section 2 (SILK), Selangor, Malaysia	Sunway Construction	U5	1995-2004
	Detailed design and construction supervision of 14.4 km dual 3-lane carriageway with 2 m wide median. Section 2 comprises two interchanges and five concrete bridges.	Berhad/Sistem Lingkaran Lebuhraya Kajang Sdn Bhd (SILK)		
35.	Infrastructure for Bandar Nusajaya, Gelang Patah, Johor, Malaysia	Prolink Development Sdn	Expressway	1995-2000
	Preliminary Engineering Design and detailed design of 20 km of dual 2 and 3 carriageway, bridges and interchange.	Bhd		
36.	Bandar Nusajaya, Gelang Patah, Johor-Infrastructure Works Planning, detailed design, project management, contract administration and construction supervision of:	Prolink Development Sdn Bhd	3,300 hectares	1995-2000











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	 expressway 25 km of st ranging from pumping st 25 km of tru from 300 m equivalent A new sew Trunk drain 1:100 year ponds. Coordination advanced t Coordination 1:55,000 kW 	ual-two and dual- y, bridges and intelliged water supply m 300 mm to 120 tation to provide 1 unk sewer networum to 2000 mm to of 450,000 (Estinage treatment plans up to 40 m wid flood returns with on of fiber optic and telecommunication and of power supply V comprising 132 and cabling networum.	erchange. mains with dian 00 mm, reservoi 100 Mld of supp rk with diameter o serve an populated Population ant to serve 450 th designed to on interconnected and coaxial netw on system. It infrastructure kV and 22 sub-	neter rs and ly. ranging lation n). 1,000. discharge d retention ork for to provide stations,			
37.		ural and Mechanionsion works, testing	cal and Electrica	al design,	United Engineers (Malaysia) Berhad		1995-1998
38.	3-lane carriagew	diddle Ring Road and construction vay. Package 9A idges while Packa	supervision of involves the co	8.3 km dual	Jabatan Kerja Raya, Malaysia	U5	1994-1999
39.	stability analysis	lvise on Butterwo nnical expertise to s, settlement pred treatment on very	ESA involving liction, trial emb	slope ankments	ESA Jurutera Perunding Sdn Bł	Expressway	1990
40.	Detail design an	ley Expressway: Id construction su y of 8.5 km from terchange.	pervision for the	e 3-lane	PLUS Bhd	Expressway	1989-1992
41.	Detailed design	inggiu Dam, Joho and construction ay rural road of 6	supervision of		Public Utilities Board, Singapore	R5	1988
42.	Selangor, Malay Detailed design	n dari TUDM Subvisia of a diamond inte	erchange and u	pgrading of	Jabatan Kerja Raya, Malaysia	R6	1984

a 2-lane dual carriageway. The works also include 12

bridges and 2 foot bridges.



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43.	 Diversion of Sungai Semenyih Dam access road, Selangor, Malaysia Detailed design and construction supervision of a 2-lane single carriageway rural road of 7.5 km on mountainous terrain. 		Jabatan B Air, Selan Malaysia		R4	1984	
44.	Pembinaan Jalan Alternatif/Gantia Subang/Kg. Batu Tiga, Selangor. Detailed design of a 2-lane single 6 km including a 3-span bridge an	Malaysia carriageway	rural road of	Jabatan K Raya, Ma	•	R5	1983
45.	Pembinaan Jalan Alternatif/Gantia Subang/Kg. Batu Tiga, Selangor. Detailed design and construction single carriageway rural road of 6 km of existing road including a 3-s culvert.	Malaysia supervision c .6 km and up	of a 2-lane grading of 3	Jabatan K Raya, Ma	•	R5	1982