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SEWERAGE PROJECTS UNDERTAKEN BY SMHB AND ASSOCIATED FIRMS

* updated March 2023

| Project | Location | Features | Population Equivalent | Year of Completion |
|---|----------------------|--|----------------------------------|--------------------|
| 1. Bandar Indera Mahkota Sewage Treatment Plant Project and Sewer Network, Kuantan, Pahang | Pahang | <ul style="list-style-type: none"> 64.6 km of sewer network (M&E services) | 200,000 (ultimate 400,000) | 2023 |
| 2. Construction of a Regional Sewage Treatment Plant and Study of Sewerage Pipeline at Kota Setar, Kedah | Kedah | <ul style="list-style-type: none"> 25 km of sewer pipeline | 100,000 PE (ultimate 300,000 PE) | 2022 |
| 3. Package D43 - Design of Sewerage Network in Batu, Jinjang and Kepong (Design & Build), Kuala Lumpur | Kuala Lumpur | <ul style="list-style-type: none"> 42 km trunk sewer network and 5 nos pumping station | 1,000,000 | 2018 |
| 4. Sewerage Catchment Review Study for Pencala-Pantai & River of Life Precinct 1 to 11, Kuala Lumpur | Greater Klang Valley | <ul style="list-style-type: none"> sewerage and sludge catchment study for Precincts 1 to 11. overall catchment study for whole of Pantai involving capacity assessment and recommendations | 1,800,000 | 2016 |
| 5. Proposed Construction of Sewer Pipeline for Si-Rusa Area, Port Dickson, Negeri Sembilan | Negeri Sembilan | <ul style="list-style-type: none"> sewer extension and rationalisation of public sewage treatment plants within the Sunggala catchment (8.34 sq km) 8 km new trunk sewer rationalisation of 4 sewage treatment plants (285 PE - 3,600 PE); for conversion into pumping stations or decommissioned | 9,500 | 2017 |
| 6. Review and Design of Wastewater Treatment Plants in Syrian Arab Republic | Syria | <ul style="list-style-type: none"> 2 wastewater treatment plants | 2,000 to 250,000 | 2006 |
| 7. Sewerage Facilities for Cyberjaya Flagship Zone – Phase 2 Development, Cyberjaya | Cyberjaya | <ul style="list-style-type: none"> sewers pumping stations pumping mains | 309,119 and 123,071 | 2005 |
| 8. Sewage Treatment Plant (STP) and Centralised Sludge Treatment Facility (CSTF), Port Dickson, Negeri Sembilan | Negeri Sembilan | <ul style="list-style-type: none"> sewage treatment plant centralised sludge treatment facility | STP: 30,000. CSTF: 98,000 | 2004 |

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| 9. Term Consultancy for the Design and Construction of Minor Sewerage Works | Perak, Perlis, Pulau Pinang, Selangor, Negeri Sembilan and Pahang | <ul style="list-style-type: none"> • sludge drying bed – aerated lagoon system • sludge transfer station • sludge lagoons • sewer network pumping station | Various | 2000 |
| 10. Sewage Treatment Plant at Sungai Lukut Kechil, Port Dickson, Negeri Sembilan | Negeri Sembilan | <ul style="list-style-type: none"> • raw sewage pumping station • raw and thickened sludge storage tank • sludge thickening facility | 7,300 | 1999 |
| 11. Kuala Lumpur International Airport Wastewater Facilities, Selangor | Selangor | <ul style="list-style-type: none"> • 51 Mld sewage treatment plants • 8km gravity sewers (300mm-900mm dia.) • 6km rising mains (400-700mm dia.) • 6 sewage pumping stations • 136 manholes | 60 million passengers per annum | 1997 |
| 12. Malaysia – Singapore Second Crossing New Township (Phase I Development), Johor | Johor | <ul style="list-style-type: none"> • 2 sewage treatment plants • 13km trunk sewer (650mm-1,350mm dia.) • 17 sewage pumping stations | 350,000 | 2000 |
| 13. Review of Sewage Proposals for George Town and Bayan Baru catchments, Pulau Pinang | Pulau Pinang | <ul style="list-style-type: none"> • sewage treatment facility • sewer reticulation | - | 1995 |
| 14. Kangar Town Sewerage, Perlis | Perlis | <ul style="list-style-type: none"> • catchment study of an area of 18.22 sq.km • preliminary design of sewer network comprising 6.2 km trunk sewers, 1.5 k secondary sewers, 1.5 km pumping mains, 9 sewage pumping stations | Est. 43,610 by year 2000 | 1995 |
| 15. Karambunai Golf and Beach Resort, Kota Kinabalu, Sabah | Sabah | <ul style="list-style-type: none"> • 4.95km gravity sewers • 0.6km rising mains • 6 sewage pumping stations | 6,000 | 1993 |
| 16. Bukit Tunggal Golf and Country Resort, Selangor | Selangor | <ul style="list-style-type: none"> • 25 sewage treatment plants • 36.2km main gravity sewers • 1.4km rising mains • 25 sewerage catchments | - | 1993 |

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| 17. Berjaya Premier Beach Resort, Langkawi, Kedah | Kedah | <ul style="list-style-type: none"> • 2 sewage treatment plants • 4.9km gravity sewers • 600m rising mains • 4 pumping stations • 2 sewerage catchments | 2,000 | 1993 |
| 18. National Sewerage Scheme, Kedah | Kedah | <ul style="list-style-type: none"> • asset database and conceptual sewerage design • sewerage catchment study for the states' municipal councils | - | 1993 |
| 19. Pintu Malim Sewage Treatment Works, Brunei: Secondary Treatment | Brunei | <ul style="list-style-type: none"> • Secondary treatment for existing sewage treatment works | 58,300 | 1992 |
| 20. Pintu Malim Sewage Treatment Works, Brunei: Upgrading Phase I – Partial Secondary Treatment with Sludge Digestion | Brunei | <ul style="list-style-type: none"> • Secondary treatment for existing sewage treatment works with sludge digestion | 58,300 | 1992 |
| 21. Corrosion protection to twin rising main in Jalan Subok/Kota Batu, Brunei | Brunei | <ul style="list-style-type: none"> • study, investigation and design for rehabilitation works on existing 2.26km steel twin rising mains (600mm dia.) from sewage pumping station to sewage treatment works | - | 1992 |
| 22. Tunku Link Road Sewerage, Brunei | Brunei | <ul style="list-style-type: none"> • 2.01km gravity sewers (300mm and 600mm dia.) • 1.62km rising mains (400mm dia.) • 1 pumping mains | - | 1992 |
| 23. Alor Setar Town Sewerage Scheme (Phase I), Kedah | Kedah | <ul style="list-style-type: none"> • trunk sewers (225mm-1,350mm dia.) • 8 pumping stations • aerated lagoon | 125,000 | 1992 |
| 24. Gadong Sewage Treatment Works – Stage 1, Brunei | Brunei | <ul style="list-style-type: none"> • 6km pumping mains • 2 pumping stations | 55,000 | 1992 |
| 25. Additional Sewerage Facilities to Bandar Tutong, Brunei | Brunei | <ul style="list-style-type: none"> • 4.4km gravity sewers (150mm-250mm) • 45m pumping mains (100mm dia.) • 1 sewage pumping station | 5,000 | 1991 |
| 26. Jerudong Valley Sewerage, Brunei | Brunei | <ul style="list-style-type: none"> • 61km gravity sewers • 14.8km rising mains | 40,000 | 1990 |

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| 27. Bangar Town Sewerage, Brunei | Brunei | <ul style="list-style-type: none"> • 18 pumping stations • Feasibility study for provision of sewerage and sewage treatment facilities | - | 1989 |
| 28. Survey of Existing Sewerage System, Bandar Seri Begawan, Brunei | Brunei | <ul style="list-style-type: none"> • Survey of portion of an existing main sewerage system, pipelines' inspection and refurbishment advice | - | 1989 |
| 29. Improvements to Jerudong Prison Sewerage System and Sewage Treatment Works, Brunei | Brunei | <ul style="list-style-type: none"> • sewage treatment works • extension of sewer lines • pumping station | 1,000 | 1989 |
| 30. Pintu Malim Sewage Treatment Works Extension, Brunei | Brunei | <ul style="list-style-type: none"> • anaerobic digesters • sludge dewatering facilities • additional sedimentation tanks | 58,300 | 1989 |
| 31. Gadong Police Complex Sewerage, Brunei | Brunei | <ul style="list-style-type: none"> • 30km of reticulation and main sewerage • 4 pumping stations • extended aeration treatment plant | 5,000 | 1989 |
| 32. Tutong Sewerage Scheme, Brunei | Brunei | <ul style="list-style-type: none"> • 30km of main sewers • pumping station • oxidation pond treatment works • submarine outfall pipeline • house connection | 17,000 | 1989 |
| 33. Tawau Sewerage Project, Sabah | Sabah | <ul style="list-style-type: none"> • 9km gravity/pumping sewers • 2 pumping stations | 50,000 | 1987 |
| 34. Subok/Kota Batu Sewerage, Brunei | Brunei | <ul style="list-style-type: none"> • preliminary engineering design and phasing of a sewerage scheme | 30,000 | 1987 |
| 35. Gadong Future Sewerage Outline Plans, Brunei | Brunei | <ul style="list-style-type: none"> • conceptual design: major sewers, pumping stations and two oxidation ditch sewerage treatment works | 110,000 | 1985 |
| 36. Modification to Pumping Station, Brunei | Brunei | <ul style="list-style-type: none"> • modification of structural and m&e for wet/dry well pumping station | - | 1985 |
| 37. Master Plan and Feasibility Study for Sewerage and Drainage in Kuala Terengganu and Its Urban Environs | Terengganu | <ul style="list-style-type: none"> • sewerage and drainage studies and master plans targeted to the year 2000 | - | 1983 |

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| 38. Berakas Sewerage Scheme, Brunei | Brunei | <ul style="list-style-type: none"> • 11km of main sewers • 3 pumping stations • submarine pipeline | - | 1978 |